



Daily Briefing - November 10, 2025

Your Daily Tech & Programming Digest

Monday, November 10, 2025

1000

ARTICLES

100038

WORDS

1098

MIN READ

39

SOURCES



Today's Top Stories

Evaluation on Human Perception of Various Vibrotactile Encoding Methods Through a High Density Haptic Feedback Interface

17

2025-05-09



1
min



197
words

TRANSACTIONS HAPTICS


Summary: High density (HD) haptic interfaces have become increasingly common for entertainment thanks to advancements in virtual reality technology, however their flexibility may make them a useful sensory substitution interface for motor rehabilitation. Yet little research has explored how users interpret d...



Read full article:


<http://ieeexplore.ieee.org/document/10994678>

Enhancing Video Experiences for DHH Individuals Through Sound-Inspired Motion Caption-Based Spatiotemporal Tacton

 2025-04-01  1 min  146 words

TRANSACTIONS HAPTICS

Summary: When deaf and hard of hearing (DHH) individuals watch videos, captions are essential for them to understand the linguistic content. Current captions, however, are not suitable for conveying non-verbal sound information, such as background music, sound effects, or speech nuances. In this paper, we de...

 Read full article:

<http://ieeexplore.ieee.org/document/10946856>

VibTac: A High-Resolution High-Bandwidth Tactile Sensing Finger for Multi-Modal Perception in Robotic Manipulation

 2025-04-15  1 min  169 words




TRANSACTIONS HAPTICS

Summary: Tactile sensing is pivotal for enhancing robot manipulation abilities by providing crucial feedback for localized information. However, existing sensors often lack the necessary resolution and bandwidth required for intricate tasks. To address this gap, we introduce VibTac, a novel multi-modal tacti...

 Read full article:

<http://ieeexplore.ieee.org/document/10965524>

Age-Related Impact in Illusory Torque Cues Induced by Asymmetric Vibrations

 2025-04-07  1 min  197 words

TRANSACTIONS HAPTICS

Summary: Illusory pulling sensations in the translational or rotational direction are induced by asymmetric vibrations applied to the fingertips. Although previous studies have discussed the involvement of mechanoreceptors associated with skin deformation and spatial processing in the parietal association co...

 Read full article:

<http://ieeexplore.ieee.org/document/10955171>

A Force/Torque Taxonomy for Classifying States During Physical Co-Manipulation

 2025-06-17  1 min  149 words




TRANSACTIONS HAPTICS

Summary: Achieving seamless human-robot collaboration requires a deeper understanding of how agents manage and communicate forces during shared tasks. Force interactions during collaborative manipulation are inherently complex, especially when considering how they evolve over time. To address this complexity...

 Read full article:

<http://ieeexplore.ieee.org/document/11037651>

Haptic Relocation Away From the Fingertip: Where, Why, and How

 2025-06-20  1 min  194 words




TRANSACTIONS HAPTICS

Summary: Tactile haptic devices are often designed to render meaningful, complex, and realistic touch-based information on users' skin. While fingertips and hands are the most preferred body locations to render haptic feedback, recent trends allow such feedback to be extended to alternative body locations (e...

 Read full article:


<http://ieeexplore.ieee.org/document/11045422>

Tactile–Thermal Interactions: Cooperation and Competition

 2025-03-10  1 min  198 words




TRANSACTIONS HAPTICS

Summary: This review focuses on the interactions between the cutaneous senses, and in particular touch and temperature, as these are the most relevant for developing skin-based display technologies for use in virtual reality (VR) and for designing multimodal haptic devices. A broad spectrum of research is re...

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<http://ieeexplore.ieee.org/document/10918829>

Twenty Years of World Haptics: Retrospective and Future Directions

 2025-09-19  1 min  1 words

TRANSACTIONS HAPTICS

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<http://ieeexplore.ieee.org/document/11174044>

Gray matter volume as a mediator of the relationship between age-related hearing and cognitive function

 1 min  27 words

NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025

Source: Neuroscience, Volume 590


Author(s): Samaneh Nemati, Roger Newman-Norlund, Sarah Newman-Norlund, Dirk den Ouden, Meisam Arjmandi, Jean Neils-Strunjas, Chris Rorden, Leonardo Bonilha, Julius Fridriksson

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Respiration phase dependent modulation of somatosensory evoked potentials

 1
min

 14
words

NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025

Source: Neuroscience, Volume 590

Author(s): Tatsunori Watanabe, Atsunori Itagaki, Isamu Ozaki

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0306452225010462?dgcid=rss_sd_all

Pathway-specific hippocampal plasticity gated by theta-frequency medial septal stimulation

 1
min

 16
words


NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025




Source: Neuroscience, Volume 590

Author(s): T.A. Korotkova, A.P. Bolshakov, V.A. Markevich, Y.V. Dobryakova

 Read full article:

https://www.sciencedirect.com/science/article/pii/S030645222501053X?dgcid=rss_sd_all

A novel mobile application to examine impaired vigilance through digital means

 2025-11-07  1 min  0 words




NATURE NEUROSCIENCE SUBJECTS



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<https://www.nature.com/articles/s41598-025-23155-z>

Poison frogs

 2025-11-07  1 min  0 words

NATURE NEUROSCIENCE SUBJECTS



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Mapping the developmental path for Parkinson's disease therapeutics

 2025-11-07  1 min  0 words




NATURE NEUROSCIENCE SUBJECTS



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Incidence and characterization of spontaneous pituitary neuroendocrine tumors in aged spontaneously hypertensive rats


 2025-11-07  1 min  0 words

NATURE NEUROSCIENCE SUBJECTS

 Read full article:

<https://www.nature.com/articles/s41598-025-26871-8>

A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces


 2025-11-07  1 min  0 words

NATURE NEUROSCIENCE SUBJECTS

 Read full article:

<https://www.nature.com/articles/s41597-025-06039-9>

A high-density diffuse optical tomography dataset of naturalistic viewing




 2025-11-07  1 min  0 words

NATURE NEUROSCIENCE SUBJECTS

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<https://www.nature.com/articles/s41597-025-06041-1>

Dock, prime, deliver while shrinking — and repeat

 2025-11-07  1 min  0 words





NATURE NEUROSCIENCE SUBJECTS



Read full article:

<https://www.nature.com/articles/s41583-025-00995-2>

Dendritome mapping reveals the spatial organization of striatal neuron morphology

 X. William Yang  2025-10-31  1 min  43 words

NATURE NEUROSCIENCE

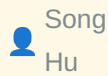
Summary: <p>Nature Neuroscience, Published online: 31 October 2025; doi:10.1038/s41593-025-02085-z</p>The authors mapped the dendritic morphology of thousands of striatal D1-type and D2-type medium spiny neurons in healthy and Huntington's dise...



Read full article:

<https://www.nature.com/articles/s41593-025-02085-z>

Laser-engineered PRIME fiber for panoramic reconfigurable control of neural activity



Song

Hu



2025-10-31

1
min34
words

NATURE NEUROSCIENCE

Summary: <p>Nature Neuroscience, Published online: 31 October 2025; doi:10.1038/s41593-025-02106-x</p>
<p>The authors develop a neural probe with over 1,000 light emitters arranged along its length and circumference, enabling panoramic 3D optical s...

Read full article:

<https://www.nature.com/articles/s41593-025-02106-x>

This Week in The Journal

McKeon,
P.

2025-10-22

1
min

0
words

JOURNAL NEUROSCIENCE THIS WEEK

Read full article:

<http://www.jneurosci.org/cgi/content/short/45/43/etwij45432025?rss=1>

This Week in The Journal

McKeon,
P.

2025-10-29

1
min

0
words

JOURNAL NEUROSCIENCE THIS WEEK

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<http://www.jneurosci.org/cgi/content/short/45/44/etwij45442025?rss=1>

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Predicted molecules followed by experimental validation for protecting human neurons from oxidative stress–induced cytotoxicity

Xuyu YangJoo-Youn LeeFarbod MoghadamJoseph SteinerSoo-Kyung KimNeha GanjurAdrian J. de AlmenaraBrian M. StoltzY. Peng LohWilliam A. GoddardaDivision of Molecular and Cellular Biology, Section on Cellular Neurobiology, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD 20892bMaterials and Process



Simulation Center, California Institute of Technology, Pasadena, CA 91125cTherapeutics and Biotechnology Division, Korea Research Institute of Chemical Technology, Daejeon 34114, Republic of KoreadDivision of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA 91125eDrug Development Unit, Translational Neuroscience Center, National Institute of Neurological Disease and Stroke, National Institutes of Health, Bethesda, MD 20892



2025-11-03



1
min



52
words

PNAS NEUROSCIENCE

Summary: Proceedings of the National Academy of Sciences, Volume 122, Issue 45, November 2025.
SignificanceNeurodegenerative diseases such as Alzheimer disease (AD) have had a major impact on the aging population worldwide, but currently, there are no effective drugs to treat these diseases. We showed ...






Read full article:

<https://www.pnas.org/doi/abs/10.1073/pnas.2505359122?af=R>

Receptive fields from single-neuron recording and MRI reveal similar information coding for binocular depth

Andrew J. Parker^a, Ivan Alvarez^a, Alessandro Mancari^a, Betina Ip^a, Kristine Krug^a, Holly Bridge^a, Department of Sensory Physiology, Institute of Biology, Otto von Guericke University, Magdeburg 39120, Germany^b, Department Physiology, Anatomy and Genetics, University of Oxford, Oxford OX1 3PT, United Kingdom^c, Leibniz-Institute for Neurobiology, Magdeburg 39120, Germany^d, Oxford Centre for Functional Magnetic Resonance Imaging of the Brain, Centre for Integrative Neuroimaging, University of Oxford, Oxford OX3 9DU, United Kingdom^e, Nuffield Department of Clinical Neurosciences, University of Oxford, Oxford OX3 9DU, United Kingdom^f, Department of Translational Research on New Technologies in Medicine and Surgery, University of Pisa, Pisa 56124, Italy

 2025-11-03  1 min  53 words

PNAS NEUROSCIENCE


Summary: Proceedings of the National Academy of Sciences, Volume 122, Issue 45, November 2025.
Significance The concept of a receptive field (RF) of a neuron is fundamental in sensory neuroscience, defined by the ordered set of sensory stimuli that reliably induce activation of a neuron. Recent advances...




Read full article:

<https://www.pnas.org/doi/abs/10.1073/pnas.2409893122?af=R>

Large language models can extract metadata for annotation of human neuroimaging publications

 Jessica A. Turner


 17 2025-08-20

 1 min

 171 words


FRONTIERS NEUROINFORMATICS


Summary: We show that recent (mid-to-late 2024) commercial large language models (LLMs) are capable of good quality metadata extraction and annotation with very little work on the part of investigators for several exemplar real-world annotation tasks in the neuroimaging literature. We investigated the GPT-4o...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fninf.2025.1609077>

A correlation-based tool for quantifying membrane periodic skeleton associated periodicity

 Hanne B. Rasmussen

 17 2025-08-22

 1 min

 156 words


FRONTIERS NEUROINFORMATICS


Summary: IntroductionThe advent of super-resolution microscopy revealed the membrane-associated periodic skeleton (MPS), a specialized neuronal cytoskeletal structure composed of actin rings spaced 190 nm apart by two spectrin dimers. While numerous ion channels, cell adhesion molecules, and signaling protei...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fninf.2025.1628538>

Epileptic brain imaging by source localization CLARA supported by ictal-based semiology and VEEG in resource-limited settings

 Aleksandra Kawala-Sterniuk

 2025-08-29

 1 min

 279 words

FRONTIERS NEUROINFORMATICS


Summary: Introduction Accurate localization of the epileptogenic zone is essential for surgical treatment of drug-resistant epilepsy. Standard presurgical evaluations rely on multimodal neuroimaging techniques, but these may be limited by availability and interpretive challenges. This study aimed to assess th...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fninf.2025.1661617>

VAE deep learning model with domain adaptation, transfer learning and harmonization for diagnostic classification from multi-site neuroimaging data

 D. Rangaprakash

 2025-09-11

 1 min

 276 words


FRONTIERS NEUROINFORMATICS


Summary: In large public multi-site fMRI datasets, the sample characteristics, data acquisition methods, and MRI scanner models vary across sites and datasets. This non-neural variability obscures neural differences between groups and leads to poor machine learning based diagnostic classification of neurodev...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fninf.2025.1553035>

Software and pipelines for registration and analyses of rodent brain image data in reference atlas space

 Jan G.
Bjaalie

 17 2025-09-24

 1
min

 207
words

FRONTIERS NEUROINFORMATICS


Summary: Advancements in methodologies for efficient large-scale acquisition of high-resolution serial microscopy image data have opened new possibilities for experimental studies of cellular and subcellular features across whole brains in animal models. There is a high demand for open-source software and wo...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fninf.2025.1629388>

Super-resolution microscopy and deep learning methods: what can they bring to neuroscience: from neuron to 3D spine segmentation

 Lydia
Danglot

 17 2025-09-29

 1
min

 130
words


FRONTIERS NEUROINFORMATICS


Summary: In recent years, advances in microscopy and the development of novel fluorescent probes have significantly improved neuronal imaging. Many neuropsychiatric disorders are characterized by alterations in neuronal arborization, neuronal loss—as seen in Parkinson's disease—or synaptic loss, as in Alzhei...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fninf.2025.1630133>

Early heart disease prediction using LV-PSO and Fuzzy Inference Xception Convolution Neural Network on phonocardiogram signals

 C.
Palanisamy

 2025-10-01

 1
min

 254
words

FRONTIERS NEUROINFORMATICS


Summary: IntroductionHeart disease is one of the leading causes of mortality worldwide, and early detection is crucial for effective treatment. Phonocardiogram (PCG) signals have shown potential in diagnosing cardiovascular conditions. However, accurate classification of PCG signals remains challenging due t...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fninf.2025.1655003>

Information-theoretic gradient flows in mouse visual cortex

 Milan
Brázdil


 2025-10-30

 1
min

 189
words

FRONTIERS NEUROINFORMATICS


Summary: IntroductionNeural activity can be described in terms of probability distributions that are continuously evolving in time. Characterizing how these distributions are reshaped as they pass between cortical regions is key to understanding how information is organized in the brain.MethodsWe developed a...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fninf.2025.1700481>

Using noise to distinguish between system and observer effects in multimodal neuroimaging

 Milan
Brázdil

 2025-10-17

 1
min

 196
words


FRONTIERS COMPUTATIONAL NEUROSCIENCE


Summary: Introduction It has become increasingly common to record brain activity simultaneously at more than one spatiotemporal scale. Here, we address a central question raised by such cross-scale datasets: do they reflect the same underlying dynamics observed in different ways, or different dynamics observe...

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<https://www.frontiersin.org/articles/10.3389/fncom.2025.1693279>

Advancing epileptic seizure recognition through bidirectional LSTM networks

 Sanaa Al-
Marzouki

 2025-10-17

 1
min

 273
words

FRONTIERS COMPUTATIONAL NEUROSCIENCE

Summary: Seizure detection in a timely and accurate manner remains a primary challenge in clinical neurology, affecting diagnosis planning and patient management. Most of the traditional methods rely on feature extraction and traditional machine learning techniques, which are not efficient in capturing the d...

 Read full article:

<https://www.frontiersin.org/articles/10.3389/fncom.2025.1668358>

The impact of CSF-filled cavities on scalp EEG and its implications



Maria Carla
Piastra



2024-06-14



1
min



64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...



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Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research



Julius
Welzel



2024-07-02



1
min



72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...






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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-Sosa

 2024-08-22  1 min

 2 words

OOSTENVELD ROBERT



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Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity


 Richard J A van Wezel

 2024-09-04  1 min

 65 words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...


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The past, present, and future of the brain imaging data structure (BIDS)

 Krzysztof J
Gorgolewski

 2024-09-23

 1
min

 82
words

OOSTENVELD ROBERT


Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...


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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

 Fanny
Quandt

 2025-01-09

 1
min

 65
words

OOSTENVELD ROBERT


Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...


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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

 Luca
Pollonini


 17 2025-01-27

 1
min

 70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


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Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility

 Lyuba
Zehl

 17 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT


Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT


Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...


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BMR-YOLO: A deep learning approach for fall detection in complex environments

 Ping
Lan


 17 2025-11-07

 1
min

 61
words

LOW VISION


Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...


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Object recognition from sparse simulated phosphenes and curved segments

 Michael H
Herzog

 17 2025-11-07

 1
min

 71
words

LOW VISION


Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...


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A 2D-digital spectral sensing method for rapid antibiotic detection in water

 Xin
Zhang

 2025-11-07

 1
min

 74
words

LOW VISION


Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...


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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia


 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...



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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07  1
min

 65
words

LOW VISION


Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...



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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study

 Paula Fávaro
Polastri

 2025-11-07  1
min

 71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...

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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model

 Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...





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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION


Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...



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Food defect detection technologies based on deep learning and prospects in detection of unsound wheat kernels

 Liwen
Cui

 2025-11-09  1 min

 65 words

LOW VISION


Summary: With rising concerns over global food security and quality pressures and the rapid advancement of agricultural intelligence, wheat quality detection demands higher efficiency, accuracy, and automation. Unsound wheat kernels, which adversely affect flour yield, storage stability, and food safety, hav...

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Transorbital endoscopic approaches: Applications in orbital surgery

 Dinesh
Selva



2025-11-09



1
min



66
words

LOW VISION

Summary: Transorbital endoscopic approaches (TEAs) for orbital surgery have gained considerable traction since the concept was first formalized approximately 2 decades ago. While the distinction in the nomenclature between TEA and transorbital neuroendoscopic surgery can be at times ambiguous, this review fo...



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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas
Hummel



2025-05-28



1
min



70
words

TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...





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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki
Kajimoto


 2025-06-17

 1
min

 75
words

TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...


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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent

 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 17 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...


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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 17 2025-08-01

 1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...


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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain

 Eric
Fjeldheim

 17 2025-08-24

 1
min

 22
words

TACTILE ACUITY


Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.


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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study

 Paula Anne Newman-
Casey

 17 2025-09-09

 1
min

 74
words

TACTILE ACUITY


Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...


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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system

 Sviatoslav N
Bagriantsev


 2025-09-13

 1
min

 58
words

TACTILE ACUITY


Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...


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The coarse mental map of the breast is anchored on the nipple

 Charles M
Greenspon

 2025-09-18

 1
min

 86
words

TACTILE ACUITY


Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words

TACTILE ACUITY


Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...



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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

 Önder
İşlek

 2025-09-12  1
min

 55
words

BRAILLE


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...



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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words

BRAILLE


Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.


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
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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh

 2025-10-03

 1 min

 73 words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...


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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille

Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions



Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study



Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...



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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17

2025-11-01



1

min



35

words

BRAILLE

Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.







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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05  1 min  63 words


BRAILLE


Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...

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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07  1 min  51 words


BRAILLE



Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Antimicrobial drug-resistant *Neisseria gonorrhoeae* (GC) infections in men using doxycycline postexposure prophylaxis. A substudy of the ANRS 174 DOXYVAC trial

 Jean-Michel
Molina

 2025-11-09  1
min

 30
words

BRAILLE

Summary: CONCLUSIONS: DoxyPEP use was associated with a significant increase in high-level tetracycline resistance and decreased susceptibility to cefixime in GC. AMR should therefore be closely monitored when using this strategy.


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Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice

 Yu
Fu

 2025-11-06  1
min

 35
words

TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.

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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?



André Russowsky
Brunoni



2025-11-06



1
min



2
words

TDCS TACS TRNS



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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis



Lei
Fang



2025-11-07



1
min



38
words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.






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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke

 Gabriela
Castellano

 2025-11-07  1
min

 63
words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...

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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS


Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.



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
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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...

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Exploring the mechanism of transcranial direct current stimulation combined with aerobic exercise in improving working memory of post-stroke patients with cognitive dysfunction: An event-related potentials study

 Yingying
Ji


 2025-11-08

 1
min

 37
words

TDCS TACS TRNS


Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.



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Effects of Non-Invasive Prefrontal Neuromodulation on Acute Cortisol Response to Stress: A Systematic Review and Meta-Analysis

 Jiale
Zhong

 2025-11-09  1
min

 58
words

TDCS TACS TRNS


Summary: Dysregulated stress response, involving altered connectivity between the hypothalamic-pituitary-adrenal (HPA) axis and prefrontal cortex (PFC), is linked to psychiatric disorders. Non-invasive brain stimulation (NIBS) may modulate cortisol release by influencing PFC activity; however, quantitative e...



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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

 Wen
Wu

 2025-11-03  1
min

 36
words

fNIRS


Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

 Min-Seong
Ha



2025-11-03



1
min



56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...



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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao

 17

2025-11-03



1
min



75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...





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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu

 2025-11-03  1
min

 68
words

fNIRS


Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...



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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...



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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fN...


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
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Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 2025-11-07

 1
min

 58
words

FNIRS

Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...


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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251110024014&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41201655/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251110024014&v=2.18.0.post22+67771e2)

Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan

 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

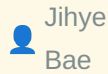
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye

Bae



2025-11-07

1
min69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...



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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110024012&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41203630/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110024012&v=2.18.0.post22+67771e2)

Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina

Simonyan



2025-11-08

1
min38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...





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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler

 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu

 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng


 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

 Read full article:


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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110024012&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41205562/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110024012&v=2.18.0.post22+67771e2)

On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110024012&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41205898/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110024012&v=2.18.0.post22+67771e2)

Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauich-Rodríguez



2025-11-09


1
min69
words**BRAIN COMPUTER INTERFACE**

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...


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Multi-domain feature extraction and Sand Cat Swarm Optimized Broad Learning System for EEG-based Motor Imagery decoding in stroke patients

 Melina Maria
Afonso

 2025-11-09

 1
min

 61
words

BRAIN COMPUTER INTERFACE

Summary: Brain-Computer Interfaces (BCIs) enable the translation of brain activity into executable commands, with Motor Imagery (MI)- based systems gaining prominence for their intuitive and non-invasive control. Electroencephalography is widely used due to its portability and time resolution, though its non...

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[tbw4049Wgf_RdKXdtnCvGW0lVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110024012&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41207160/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtnCvGW0lVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110024012&v=2.18.0.post22+67771e2)

Quantum enhanced EEG classifier towards brain-controlled wheelchair navigation



Kumar Avinash
Chandra



2025-11-09



1
min



64
words

BRAIN COMPUTER INTERFACE

Summary: Brain-computer interfaces (BCIs) provide a pathway to assistive technologies such as brain-controlled wheelchairs, yet accurate motor imagery (MI) classification from electroencephalography (EEG) remains challenging due to noise and subject variability. In this work, we propose a hybrid Quantum Enha...



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Looking back, looking forward.



2025-10-30



1
min



60
words

CLINICAL NEUROSCIENCE




Summary: Looking back at the editor's two 3-year terms as editor of Psychology of Consciousness, they feel that they and the journal's associate editors have satisfied their two editorial aspirations: (a) providing authors with fair and constructive reviews and (b) providing readers with high-qualit...



Read full article:

<http://doi.org/10.1037/cns0000437>

Monolinguals outperform bilinguals in language but not executive function in aging and cognitive impairment.




 2025-07-03  1 min  267 words

NEUROPSYCHOLOGY

Summary: Objective: People with subjective cognitive decline (SCD) self-report declining cognitive function, although objective cognitive performance remains normal. SCD is a risk factor for mild cognitive impairment (MCI) and dementia. Previous research has found differences in cognitive performance in bili...

 **Read full article:**
<http://doi.org/10.1037/neu0001028>

End-stage kidney disease patients exhibited slower responses to rapidly presented visual stimuli when compared with healthy controls.




 2025-06-09  1 min  261 words

NEUROPSYCHOLOGY

Summary: Objective: Using a go/no-go test, we showed that end-stage kidney disease (ESKD) patients have a slower average reaction time (RT) compared with their respective controls. This study aimed to investigate whether the RT of ESKD patients worsened throughout the test and whether RTs were influenced by ...

 **Read full article:**
<http://doi.org/10.1037/neu0001016>

Validation of immersive virtual reality line and baguette bisection tasks for the assessment of unilateral spatial neglect.

 2025-09-15  1 min  258 words

NEUROPSYCHOLOGY

Summary: Objective: Unilateral spatial neglect (USN) assessment is commonly based on paper-and-pencil tests, including the line bisection task. However, this task lacks sensitivity and does not reflect the symptomatic heterogeneity of USN patients, such as difficulties in extrapersonal space or encountered i...

 Read full article:
<http://doi.org/10.1037/neu0001024>

The Reading the Mind in the Eyes Test for adults: A refined version in Spanish.



 2025-08-07  1 min  193 words

NEUROPSYCHOLOGY

Summary: Objective: The Reading of the Mind in the Eyes Test (RMET) is widely used to assess theory of mind, but its validity has recently been questioned. This study aimed to present a refined Spanish version of the test and examine its psychometric properties.
Method: A total of 1,185 participants from Col...

 Read full article:
<http://doi.org/10.1037/neu0001033>

Updating the Mattis Dementia Rating Scale to **DSM-5-TR/ICD-11**: A new item-division based on the current neurocognitive domains.

 2025-09-15  1 min  268 words

NEUROPSYCHOLOGY

Summary: Objective: The Mattis Dementia Rating Scale (DRS), a widely used cognitive assessment tool, has been revised to align with contemporary diagnostic criteria and cognitive domain classifications such as those outlined in **Diagnostic Statistical Manual for Mental Disorders**, fifth edition–text r...

 **Read full article:**
<http://doi.org/10.1037/neu0001029>

Inhibitory control underpins the relationship between cognitive and psychological inflexibility after a moderate to severe traumatic brain injury.




 2025-05-08  1 min  219 words

NEUROPSYCHOLOGY

Summary: Objective: Cognitive flexibility is proposed as being one “building block” of psychological inflexibility/flexibility, yet empirical studies examining these associations are scarce. This study aims to examine the relationship between these constructs in those with a moderate to severe traumatic brai...

 **Read full article:**
<http://doi.org/10.1037/neu0001018>

The Internet Archive needs your help.




 2025-04-21  1 min  181 words

FMHY

Summary: <p>A coalition of major record labels has filed a lawsuit against the Internet Archive—demanding \$700 million for our work preserving and providing access to historical 78rpm records. These fragile, obsolete discs hold some of the earliest recordings of a vanishing American culture....

 Read full article:
<https://fmhy.net/posts/support-ia>

DEC64: Decimal Floating Point




 2025-11-01  1 min  2 words

HACKER NEWS

Summary: Comments

 Read full article:
<https://www.crockford.com/dec64.html>

Realtime BART Arrival Display

 2025-11-10  1 min  2 words

HACKER NEWS





Summary: [Comments](https://news.ycombinator.com/item?id=45873113)



Read full article:

<https://filbot.com/real-time-bart-display/>

Realtime BART Arrival Display

 Jadrago  2025-11-10  1 min  13 words

HACKER NEWS

Summary:

Article URL: <https://filbot.com/real-time-bart-display/>

Comments URL: <https://news.ycombinator.com/item?id=45873113>

Points: 8

Comments: 2



Read full article:

<https://filbot.com/real-time-bart-display/>

Israeli soldiers speak out on killings of Gaza civilians

 hebelehubele  17 2025-11-10  1 min  13 words

HACKER NEWS

Summary:

Article URL: <https://www.theguardian.com/world/2025/nov/10/israeli-soldiers-breaking-ranks-gaza-civilians-human-shields>



Comments URL: <https://news.ycombinator.c...>


 Read full article:

<https://www.theguardian.com/world/2025/nov/10/israeli-soldiers-breaking-ranks-gaza-civilians-human-shields>

Type S and M errors as a “rhetorical tool”

 noreply@blogger.com (Daniel Lakens)

 17 2025-09-28  17 min

 3572 words

TWENTY PERCENT STATISTICIAN

Summary:

Update 30/09/2025: I have added a reply by Andrew Gelman below my original blog post.

We recently posted a preprint criticizing the idea of Type S and M errors (https://osf.io/2phzb_v1). From our abstract: “While these concepts have been pr...

 Read full article:

<http://daniellakens.blogspot.com/2025/09/type-s-and-m-errors-as-rhetorical-tool.html>

Why we should stop using statistical techniques that have not been adequately vetted by experts in psychology



noreply@blogger.com (Daniel
Lakens)



2025-10-29



27
min



5516
words

TWENTY PERCENT STATISTICIAN

Summary:

In a recent post on Bluesky, where Richard Morey reflects on a paper he published with Clinton Davis-Stober that points out concerns with the p-curve method (Morey & Davis-Stober, 2025), he writes:

cla...



Read full article:

<http://daniellakens.blogspot.com/2025/10/why-we-should-stop-using-statistical.html>

Registration is now full for the 2024 ERP Boot Camp



Steve
Luck



2024-03-16



1
min



106
words

ERP BOOT CAMP

Summary:

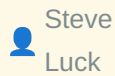
The demand for the 2024 ERP Boot Camp was far beyond our expectations, and we reached our maximum registration of 30 people within one day. We already have a waiting list of over 30 people, so we have closed the registration site.



Read full article:

<https://erpinfo.org/blog/2024/3/15/registration-full>

New Paper: Using Multivariate Pattern Analysis to Increase Effect Sizes for ERP Amplitude Comparisons



Steve
Luck



2024-06-10



2
min



525
words

ERP BOOT CAMP

Summary: Carrasco, C. D., Bahle, B., Simmons, A. M., & Luck, S. J. (2024). Using multivariate pattern analysis to increase effect sizes for event-related potential analyses. *Psychophysiology*, 61, e14570. <https://doi.org/10.1111/psyp.14570>



Read full article:

<https://erpinf.org/blog/2024/6/10/erp-core-decoding-paper>

New software package: ERPLAB Studio



Steve
Luck



2024-06-12



2
min



444
words

ERP BOOT CAMP

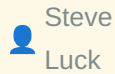
Summary: We are excited to announce the release of a new EEG/ERP analysis package, [ERPLAB Studio](https://github.com/ucdavis/erplab/releases). We think it's a huge improvement over the classic EEGLAB user interface. See our cheesy [video](https://www.youtube.com/watch?v=llaKVQ9DD6E)...



Read full article:

<https://erpinf.org/blog/2024/6/11/erplab-studio>

Recording and slides now available for ERPLAB Studio webinar



Steve
Luck



2024-06-28



1
min



30
words

ERP BOOT CAMP

Summary: We held a webinar to demonstration ERPLAB Studio on 28 June 2024. [Click here](https://youtu.be/k-nGv00rTP8) to access a recording. [Click here](https://ucdavis.box.com/s/4fseqz6327dtuouauj12rgvivvy1d1nmo) to access a PDF of the slides. <...



Read full article:

<https://erpinfo.org/blog/2024/6/28/recording-and-slides-now-available-for-erplab-studio-webinar>

New Paper: Does the P3b component reflect working memory updating?



Steve
Luck



2025-03-21



7
min



1547
words

ERP BOOT CAMP


Summary: Carrasco, C. D., Simmons, A. M., Kiat, J. E., & Luck, S. J. (in press). Enhanced working memory representations for rare events. *Psychophysiology*. <https://doi.org/10.1111/psyp.70038> [<https://doi.org/10.1101/2024.03.20...>]



Read full article:

<https://erpinfo.org/blog/2025/3/20/new-paper-oddball>

10-Day ERP Boot Camp to be held June 15-24, 2026 in Davis, California

 Steve Luck



2025-08-20



1 min



125 words

ERP BOOT CAMP

Summary: We have received another 5 years of funding from the National Institute of Mental Health, so we plan to hold ERP Boot Camps in each of the next 5 summers. The next one will be June 15-24, 2026 in Davis, California. The application portal will open around January 1, 2026. A...



Read full article:

<https://erpinfo.org/blog/2025/8/20/boot-camp-summer-2026>

Education: Standards



Adriel Carridice



2025-02-13



1 min



0 words

BRAIN



Read full article:

<https://brain.ieee.org/publications/neuroethics-framework/education/standards-education/education-standards/>

Education: Additional Resources



Adriel
Carridice



2025-02-13



1
min



61
words

BRAIN

Summary: Buckingham Shum, S. (2022). The UTS “EdTech Ethics” Deliberative Democracy Consultation: Rationale, Process and Outcomes. Connected Intelligence Centre, University of Technology Sydney, AUS. <https://cic.uts.edu.au/projects/edtech-ethics>
León Declaration on European neurotechnology (2023): a human-fo...



Read full article:

<https://brain.ieee.org/publications/neuroethics-framework/education/educational-and-training-resources-education/education-additional-resources/>

Education: References



Adriel
Carridice



2025-02-13



1
min



61
words

BRAIN





Summary: [1] OECD “Neurotechnology Toolkit To support policymakers in implementing the OECD Recommendation on Responsible Innovation in Neurotechnology,” 2024.: <https://www.oecd.org/content/dam/oecd/en/topics/policy-sub-issues/emerging-technologies/neurotech-toolkit.pdf>. [2] van Kesteren and Meeter, 2020 htt...



Read full article:

<https://brain.ieee.org/publications/neuroethics-framework/education/references/education-references/>

IEEE Brain Annual Flagship Workshop a Success

 ieeebrain  17 2025-03-03  1 min  61 words

BRAIN

Summary: IEEE Brain once again hosted the IEEE Brain Discovery and Neurotechnology Workshop as a satellite event to the 2024 Society of Neuroscience Workshop (SfN). Approximately 180 attended the two-day event, which was held at the University of Illinois Chicago (UIC), October 3-4, 2024 (Figure 1). Groundbr...

 Read full article:

<https://brain.ieee.org/braininsight-articles/ieee-brain-annual-flagship-workshop-a-success/>

Bempedoic Acid mitigates BCG-induced depression in mice by modulating TNF- α /NF- κ B signaling and restoring brain serotonin contents

 1 min  27 words

BRAIN RESEARCH

Summary:

Publication date: 15 December 2025

Source: Brain Research, Volume 1869


Author(s): Ritesh S. Tarwani, Sanjay N. Awathale, Sameer N. Goyal, Abdulla K. Sherikar, Pradip P. Bawane, Kartik T. Nakhate

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0006899325005943?dgcid=rss_sd_all

High-frequency transcranial magnetic stimulation decreases dorsal striatum dopamine D2 receptors in a rat model of depression

 1
min

 14
words

BRAIN RESEARCH

Summary:

Publication date: 15 December 2025

Source: Brain Research, Volume 1869

Author(s): Palma-Anzures Irving Eduardo, Verdugo-Diaz Leticia




Read full article:

https://www.sciencedirect.com/science/article/pii/S0006899325005797?dgcid=rss_sd_all

RAGE signaling pathway in glioblastoma and cognitive decline: Insights into inflammatory mechanisms and therapeutic implications

 1
min

 29
words

BRAIN RESEARCH

Summary:

Publication date: 15 December 2025

Source: Brain Research, Volume 1869


Author(s): Jemema Agnes Tripena Raj, Geoffrey John, Shubham Ghanekar, Gokula Krishnan Thiruselvan, Janmay Shah, Deepak Ande, Abhishek Chatterjee, Jayant S. Goda






Read full article:

https://www.sciencedirect.com/science/article/pii/S000689932500589X?dgcid=rss_sd_all

Connectome caricatures remove large-amplitude coactivation patterns in resting-state fMRI to emphasize individual differences

 Dustin
Scheinost

 17 2025-11-03  1
min


 34
words


NATURE NEUROSCIENCE


Summary: <p>Nature Neuroscience, Published online: 03 November 2025; doi:10.1038/s41593-025-02099-7</p>Dominant coactivation patterns are primarily studied in resting-state fMRI. Here, the authors study the rest of the signal, which reveals 'ca...

 **Read full article:**
<https://www.nature.com/articles/s41593-025-02099-7>

The effects of weight-bearing manipulations on gait and its underlying neural control mechanisms in toe walking children

 Navrag B.
Singh

 17 2025-11-10  1
min


 257
words


FRONTIERS HUMAN NEUROSCIENCE

Summary: IntroductionIn toe walking children, impaired maturation of neuromotor control often leads to persistent use of immature motor programs. Understanding the underlying etiology of toe walking in children with cerebral palsy (CP) and idiopathic toe walking (ITW) is crucial for advancing rehabilitation ...


 **Read full article:**
<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1701454>

Deep learning approaches for diagnosing seizure based on EEG signal analysis

 Nadhem
Ebrahim

 2025-11-10

 1
min

 279
words


FRONTIERS HUMAN NEUROSCIENCE


Summary: IntroductionEpilepsy is diagnosed in about 1% of the world's population as a common brain disease. Timely prediction and detection of seizures can significantly improve the lives of epilepsy patients.MethodsThe study has garnered considerable attention over recent years, particularly in the context ...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1669919>

Human neural correlates of emotional well-being (EWB): a preliminary systematic review and meta-analysis of MRI studies based on a recent consensus definition

 Fumiko
Hoeft


 2025-11-10

 1
min

 265
words

FRONTIERS HUMAN NEUROSCIENCE

Summary: IntroductionEmotional well-being (EWB) is a multifaceted construct essential for human health, conceptualized as an umbrella term for related psychometric concepts such as psychological well-being (PWB), positive mental health, health-related quality of life, thriving, and subjective well-being (SWB...

 Read full article:

<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1669164>

The impact of CSF-filled cavities on scalp EEG and its implications



Maria Carla
Piastra



2024-06-14



1
min



64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...



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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110022043&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/38873838/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110022043&v=2.18.0.post22+67771e2)

Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research



Julius
Welzel



2024-07-02



1
min



72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...





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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-Sosa

 2024-08-22  1 min

 2 words


OOSTENVELD ROBERT



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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110022043&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/39174725/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110022043&v=2.18.0.post22+67771e2)

Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity


 Richard J A van Wezel

 2024-09-04  1 min

 65 words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...


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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110022043&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/39229492/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110022043&v=2.18.0.post22+67771e2)

The past, present, and future of the brain imaging data structure (BIDS)

 Krzysztof J
Gorgolewski

 2024-09-23

 1
min

 82
words

OOSTENVELD ROBERT


Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...


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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

 Fanny
Quandt

 2025-01-09

 1
min

 65
words

OOSTENVELD ROBERT


Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...


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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

 Luca
Pollonini

 17 2025-01-27

 1
min

 70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


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Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility

 Lyuba
Zehl

 17 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT


Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT

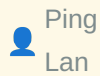
Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...

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BMR-YOLO: A deep learning approach for fall detection in complex environments



Ping
Lan

 2025-11-07

 1
min

 61
words

LOW VISION

Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...



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Object recognition from sparse simulated phosphenes and curved segments



Michael H
Herzog

 2025-11-07

 1
min

 71
words

LOW VISION

Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...





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A 2D-digital spectral sensing method for rapid antibiotic detection in water

 Xin
Zhang

 2025-11-07

 1
min

 74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...


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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia


 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...


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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07  1
min

 65
words

LOW VISION


Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...



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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study

 Paula Fávoro
Polastri

 2025-11-07  1
min

 71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...

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
[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1xePBFBvSlegfqCbvp45N3V9WgCNCS63Z1PLmhwJSPGd18QMT&fc=None&ff=20251110022037&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41204343/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1xePBFBvSlegfqCbvp45N3V9WgCNCS63Z1PLmhwJSPGd18QMT&fc=None&ff=20251110022037&v=2.18.0.post22+67771e2)

Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model

 Gong
Chen


 17 2025-11-08

 1
min

 49
words

LOW VISION


Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...



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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION


Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...



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Food defect detection technologies based on deep learning and prospects in detection of unsound wheat kernels

 Liwen
Cui

 2025-11-09  1 min

 65 words

LOW VISION


Summary: With rising concerns over global food security and quality pressures and the rapid advancement of agricultural intelligence, wheat quality detection demands higher efficiency, accuracy, and automation. Unsound wheat kernels, which adversely affect flour yield, storage stability, and food safety, hav...

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Transorbital endoscopic approaches: Applications in orbital surgery

 Dinesh
Selva



2025-11-09



1
min



66
words

LOW VISION

Summary: Transorbital endoscopic approaches (TEAs) for orbital surgery have gained considerable traction since the concept was first formalized approximately 2 decades ago. While the distinction in the nomenclature between TEA and transorbital neuroendoscopic surgery can be at times ambiguous, this review fo...



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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas
Hummel



2025-05-28



1
min



70
words

TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...





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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki
Kajimoto


 2025-06-17

 1
min

 75
words

TACTILE ACUITY

Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...


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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent

 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...


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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 2025-08-01

 1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...


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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain

 Eric
Fjeldheim

 17 2025-08-24

 1
min

 22
words

TACTILE ACUITY


Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.


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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study

 Paula Anne Newman-
Casey

 17 2025-09-09

 1
min

 74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...

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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...



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The coarse mental map of the breast is anchored on the nipple



Charles M
Greenspon



2025-09-18



1
min



86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...






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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words


TACTILE ACUITY



Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...

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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

 Önder
İşlek

 2025-09-12  1
min

 55
words


BRAILLE



Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...


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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words


BRAILLE


Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

 **Read full article:**


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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh

 2025-10-03

 1 min

 73 words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...


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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille

Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions



Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study



Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...





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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17 2025-11-01  1
min

 35
words

BRAILLE


Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.




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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05  1 min  63 words


BRAILLE

Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...

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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07  1 min  51 words


BRAILLE



Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Antimicrobial drug-resistant *Neisseria gonorrhoeae* (GC) infections in men using doxycycline postexposure prophylaxis. A substudy of the ANRS 174 DOXYVAC trial

 Jean-Michel
Molina

 2025-11-09  1
min

 30
words

BRaille

Summary: CONCLUSIONS: DoxyPEP use was associated with a significant increase in high-level tetracycline resistance and decreased susceptibility to cefixime in GC. AMR should therefore be closely monitored when using this strategy.



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Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice

 Yu
Fu

 2025-11-06  1
min

 35
words

TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.

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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?



André Russowsky
Brunoni



2025-11-06



1
min



2
words

TDCS TACS TRNS



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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis



Lei
Fang



2025-11-07



1
min



38
words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.





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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke

 Gabriela
Castellano

 2025-11-07  1
min

 63
words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...

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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS

Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.



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
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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...

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Exploring the mechanism of transcranial direct current stimulation combined with aerobic exercise in improving working memory of post-stroke patients with cognitive dysfunction: An event-related potentials study

 Yingying
Ji

 17

2025-11-08



1
min



37
words

TDCS TACS TRNS


Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.

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Effects of Non-Invasive Prefrontal Neuromodulation on Acute Cortisol Response to Stress: A Systematic Review and Meta-Analysis

 Jiale
Zhong

 17

2025-11-09

 1

min

 58

words

TDCS TACS TRNS

Summary: Dysregulated stress response, involving altered connectivity between the hypothalamic-pituitary-adrenal (HPA) axis and prefrontal cortex (PFC), is linked to psychiatric disorders. Non-invasive brain stimulation (NIBS) may modulate cortisol release by influencing PFC activity; however, quantitative e...

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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

 Wen
Wu

 17

2025-11-03

 1

min

 36

words

fNIRS


Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.


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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

 Min-Seong
Ha

 17 2025-11-03

 1
min

 56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...


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
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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao

 2025-11-03

 1
min

 75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...


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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu

 2025-11-03

 1
min

 68
words

fNIRS


Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...



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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...



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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fN...


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
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Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 2025-11-07

 1
min

 58
words

FNIRS

Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...


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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan

 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

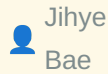
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye

Bae



2025-11-07

1
min69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...



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Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina

Simonyan



2025-11-08

1
min38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...





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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler


 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu


 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng

 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

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On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


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Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauich-Rodríguez



2025-11-09

1
min69
words**BRAIN COMPUTER INTERFACE**

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...

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Multi-domain feature extraction and Sand Cat Swarm Optimized Broad Learning System for EEG-based Motor Imagery decoding in stroke patients

 Melina Maria Afonso



2025-11-09



1
min



61
words

BRAIN COMPUTER INTERFACE

Summary: Brain-Computer Interfaces (BCIs) enable the translation of brain activity into executable commands, with Motor Imagery (MI)- based systems gaining prominence for their intuitive and non-invasive control. Electroencephalography is widely used due to its portability and time resolution, though its non...



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Quantum enhanced EEG classifier towards brain-controlled wheelchair navigation



Kumar Avinash
Chandra



2025-11-09



1
min



64
words

BRAIN COMPUTER INTERFACE

Summary: Brain-computer interfaces (BCIs) provide a pathway to assistive technologies such as brain-controlled wheelchairs, yet accurate motor imagery (MI) classification from electroencephalography (EEG) remains challenging due to noise and subject variability. In this work, we propose a hybrid Quantum Enha...



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Comparison of multidomain assessment outcomes between older and middle-aged adults following concussion.



2025-08-25



1
min



344
words

NEUROPSYCHOLOGY




Summary: Objective: This article's objective was to compare demographic/medical history and multidomain clinical assessment outcomes between older and middle-aged adults following concussion. Method: Seventy-six patients aged 50–80 years within 12 months of a concussion from a specialty clinic between Octobe...



Read full article:

<http://doi.org/10.1037/neu0001032>

Neural correlates of stigma: A systematic review.





 2025-09-15  1 min  261 words

NEUROPSYCHOLOGY

Summary: Objective: Understanding neural mechanisms underlying the experience and enactment of stigma is needed to address the public health challenge posed by both experienced and enacted stigma. In this systematic review, we synthesized the literature on neural correlates of stigma from the perspective of ...

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<http://doi.org/10.1037/neu0001037>

Selectively download videos, channels, playlists (YouTube and more)



 /u/
ph0tone  2025-11-09  1 min  313 words

REDDIT PYTHON

Summary: <!-- SC_OFF --><div class="md"><p>YT Channel Downloader 0.5.5 is a cross-platform open source desktop application built to simplify downloading YouTube and non-YouTube video and audio content. It has <a href="https://github.com/yt-dl...

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https://www.reddit.com/r/Python/comments/1osve44/selectively_download_videos_channels_playlists/

JVM exceptions are weird: a decompiler perspective

 2025-11-04  1 min  2 words





HACKER NEWS

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IEEE Brain Workshop on AI for Neurotechnology

 ieeebrain  2025-03-03  1 min  61 words




BRAIN

Summary: The IEEE Brain Workshop on AI for Neurotechnology was held on June 30, 2024, at the Pacifico Yokohama Conference Center in Japan. This event was part of the World Congress on Computational Intelligence (WCCI 2024) and was conducted in association with the International Joint Conference on Neural Net...

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<https://brain.ieee.org/braininsight-articles/ieee-brain-workshop-on-ai-for-neurotechnology/>






Call for Papers: IEEE Brain Special Issue

 ieeebrain  17 2025-03-03  1 min  36 words 


Summary: In a unique interdisciplinary collaboration with the IEEE's Society on Social Implications of Technology (SSIT) and IEEE Brain, J-FLEX is joining forces to explore both the technology of the Internet-of-Medical-Things (IoMT) solutions and medical wearables/implantables.

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IEEE Brain Joins the American Brain Coalition

 ieeebrain  17 2025-03-03  1 min  61 words 

Summary: IEEE Brain is pleased to announce its acceptance as a nonprofit member of the American Brain Coalition (ABC), a prestigious alliance of over 150 organizations dedicated to advancing brain research, advocacy, and improving treatments for individuals affected by brain conditions. The ABC Board has ent...

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<https://brain.ieee.org/braininsight-articles/ieee-brain-joins-the-american-brain-coalition-as-a-nonprofit-member/>

Call for Papers: IEEE Transactions on Human-Machine Systems



Adriel
Carridice



2025-06-18



1
min



61
words

BRAIN

Summary: Special Issue on Brain Discovery and Neurotechnology: Featured Research from 2024 IEEE Brain Discovery & Neurotechnology Workshop & This special issue is motivated by the success of the IEEE Brain Discovery and Neurotechnology Workshop held in October 2024. This annual workshop is sponsore...



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Prefrontal circHomer1 regulates synaptic and behavioral adaptations induced by cocaine



2025-11-08



1
min



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
NATURE NEUROSCIENCE SUBJECTS




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An AI methodology to reduce training intensity, error rates, and size of neural networks

 Thaddeus J. A. Kobylarz

 2025-10-21  1 min  243 words


FRONTIERS COMPUTATIONAL NEUROSCIENCE

Summary: Massive computing systems are required to train neural networks. The prodigious amount of consumed energy makes the creation of AI applications significant polluters. Despite the enormous training effort, neural network error rates limit its use for medical applications, because errors can lead to i...

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Universal differential equations as a unifying modeling language for neuroscience

 Marcel van Gerven

 2025-10-30  1 min  154 words

FRONTIERS COMPUTATIONAL NEUROSCIENCE

Summary: The rapid growth of large-scale neuroscience datasets has spurred diverse modeling strategies, ranging from mechanistic models grounded in biophysics, to phenomenological descriptions of neural dynamics, to data-driven deep neural networks (DNNs). Each approach offers distinct strengths as mechanist...

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<https://www.frontiersin.org/articles/10.3389/fncom.2025.1677930>





Time delays in computational models of neuronal and synaptic dynamics

 Mojtaba Madadi
Asl  17 2025-11-10  1 min  0 words

FRONTIERS COMPUTATIONAL NEUROSCIENCE

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<https://www.frontiersin.org/articles/10.3389/fncom.2025.1700144>

The impact of acute stress on athletes' perceptions of fairness in decision-making and its neural mechanisms


 Lin
Li  17 2025-10-30  1 min  201 words


FRONTIERS HUMAN NEUROSCIENCE

Summary: BackgroundAcute stress may disrupt decision - making by affecting cognitive and emotional processing. The behavioral and neural mechanisms of this in athletes are unclear. This study explored how acute stress impacts athletes' unfairness - related decision - making and its neural basis.MethodsForty ...


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Greater similarity of conscientiousness scores in dyads is associated with greater interpersonal neural synchrony while completing a goal-oriented task: a brief report

 Neal
Hinest


 2025-11-03

 1
min

 205
words


FRONTIERS HUMAN NEUROSCIENCE


Summary: Interpersonal neural synchrony provides a neural index of how individuals align cognitively and socially during interaction. While previous work has shown that personality traits shape interpersonal behavior, and that trait similarity can enhance dyadic coordination, little is known about whether su...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1622203>

DeepAttNet: deep neural network incorporating cross-attention mechanism for subject-independent mental stress detection in passive brain-computer interfaces using bilateral ear-EEG

 Chang-Hwan
Im


 2025-11-03

 1
min

 303
words

FRONTIERS HUMAN NEUROSCIENCE


Summary: IntroductionElectroencephalography (EEG)-based mental stress detection has the potential to be applied in diverse real-world scenarios, including workplace safety, mental health monitoring, and human-computer interaction. However, most previous passive brain-computer interface (BCI) studies have emp...

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The cost of language: functionally over-dominant language circuits in the human brain may limit cognitive abilities and non-verbal executive functions

 Hans-Peter Lipp

 2025-11-06

 1 min

 350 words


FRONTIERS HUMAN NEUROSCIENCE


Summary: Evolutionarily, the most recent connective system in the human brain is the language circuitry. However, its presence may impose restrictions on higher executive functions apparent as non-verbal talents in art, science, and management— essentially a conflict between talking and doing. Since the asso...

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Adaptive-expert-weight-based load balance scheme for dynamic routing of MoE

 Peng Cheng

 2025-10-14

 1 min

 197 words


FRONTIERS NEUROROBOTICS


Summary: Load imbalance is a major performance bottleneck in training mixture-of-experts (MoE) models, as unbalanced expert loads can lead to routing collapse. Most existing approaches address this issue by introducing auxiliary loss functions to balance the load; however, the hyperparameters within these lo...

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TSLNet: a hierarchical multi-head attention-enabled two-stream LSTM network for accurate pedestrian tracking and behavior recognition

 Xiaoting
Ma

 2025-10-20

 1
min

 161
words


FRONTIERS NEUROBOTICS


Summary: Accurate pedestrian tracking and behavior recognition are essential for intelligent surveillance, smart transportation, and human-computer interaction systems. This paper introduces TSLNet, a Hierarchical Multi-Head Attention-Enabled Two-Stream LSTM Network, designed to overcome challenges such as e...

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Study on the sleep–wake circadian rhythm and phenotypic characteristics in the acute phase of hemorrhagic stroke

 Pingshu
Zhang


 2025-11-06

 1
min

 252
words


FRONTIERS NEUROSCIENCE


Summary: ObjectiveTo investigate the sleep–wake circadian rhythm and phenotypic characteristics in patients with acute intracerebral hemorrhage (ICH), and to explore the relationship and potential mechanisms between sleep–wake phenotypes and circadian rhythm disruption.MethodsA retrospective analysis was con...

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A clinical case report on transcranial low-intensity focused ultrasound neuromodulation for central post-stroke pain

 Xiangjun
Feng

 2025-11-06

 1
min

 264
words


FRONTIERS NEUROSCIENCE


Summary: Central post-stroke pain (CPSP) manifests as persistent or intermittent pain following cerebral infarction or hemorrhage and is described as “one of the most agonizing, disabling, and refractory pain syndromes.” Its treatment represents a significant clinical challenge. In this case, we used transcr...

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Motor imagery EEG classification via wavelet-packet synthetic augmentation and entropy-based channel selection

 Tong
Zhao

 2025-11-10

 1
min

 214
words


FRONTIERS NEUROSCIENCE

Summary: IntroductionMotor-imagery (MI) brain–computer interfaces often suffer from limited EEG datasets and redundant channels, hampering both accuracy and clinical usability. We address these bottlenecks by presenting a unified framework that simultaneously boosts classification performance, reduces the nu...

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The role of prefrontal-hippocampal functional connectivity in schizophrenia-related cognitive dysfunction and the thalamic ventral midline involvement: in vivo and silico evidence

 Enrico Patrono

 17

2025-11-10



1 min



201 words

FRONTIERS NEUROSCIENCE

Summary: Schizophrenia (SCZ) is a multiform psychiatric disorder in which impairments of high-order cognitive abilities, such as flexibility, working memory, and decision-making, are considered onset markers. These deficits are associated with dysfunctions in the prefrontal cortex (PFC) and hippocampus (HPC)...



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The time-varying brain: a comprehensive review of dynamic functional connectivity analysis in EEG and MEG



Stefania Coelli, Martina Corda and Anna Maria Bianchi

 17

2025-10-30



1 min



261 words

JOURNAL NEURAL ENGINEERING

Summary: Objective. This paper presents an in-depth analysis of the recent literature on dynamic functional connectivity (dFC) analysis. This represents a paradigm shift in the analysis of neural data to overcome the inherent limitations of static assumptions about functional brain connectivity. By exploitin...



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Neuromodulation for Tourette syndrome: current techniques and future perspectives



Sarah Haslam, Kara Johnson, Daria Nesterovich Anderson, Neil Mahant and Collin J Anderson



2025-11-03



1
min



296
words

JOURNAL NEURAL ENGINEERING

Summary: Tourette syndrome (TS) is a chronic tic disorder characterized by motor and vocal tics. Neuropsychiatric symptoms are nearly universal in TS, particularly attention deficit hyperactivity disorder and obsessive-compulsive disorder. TS can have substantial effects on quality of life, social and intell...



Read full article:

<http://iopscience.iop.org/article/10.1088/1741-2552/ae1257>

The impact of CSF-filled cavities on scalp EEG and its implications



Maria Carla Piastra



2024-06-14



1
min



64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...




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Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research

 Julius
Welzel



2024-07-02


1
min72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...

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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-
Sosa



2024-08-22

1
min2
words

OOSTENVELD ROBERT

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Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity



Richard J A van
Wezel



2024-09-04



1
min



65
words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...



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The past, present, and future of the brain imaging data structure (BIDS)



Krzysztof J
Gorgolewski



2024-09-23



1
min



82
words

OOSTENVELD ROBERT

Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...




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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

Fanny
Quandt

 2025-01-09

 1
min

 65
words

OOSTENVELD ROBERT

Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...


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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

Luca
Pollonini

 2025-01-27

 1
min

 70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...



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Pseudonymisation of neuroimages and data protection: **Increasing access to data while retaining scientific utility**

 Lyuba
Zehl

 2025-06-26  1
min

 67
words

OOSTENVELD ROBERT

Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...



 **Read full article:**

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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110013657&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/40568426/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110013657&v=2.18.0.post22+67771e2)

Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13  1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


 **Read full article:**


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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110013657&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/40800958/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110013657&v=2.18.0.post22+67771e2)

Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 2025-08-13  1
min

 69
words

OOSTENVELD ROBERT



Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...


 **Read full article:**

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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110013657&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/40800964/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110013657&v=2.18.0.post22+67771e2)

Back to the future in *Neuropsychology*.

 2025-10-16  1
min

 146
words




NEUROPSYCHOLOGY

Summary: The journal continues to be a leading journal in the field but cannot rest on its laurels; concrete actions will be needed to increase the quantity and quality of submissions. To accomplish this, *Neuropsychology* needs to build on specific areas of strength. Accordingly, a revised statement ...

 **Read full article:**

<http://doi.org/10.1037/neu0001044>

Psychometric properties of the Chinese version of Nightmare Distress Questionnaire in adolescents with psychiatric disorders.

 2025-01-09  1 min  245 words

DREAMING

Summary: Nightmare Distress Questionnaire (NDQ) is commonly used to assess nightmare distress. The psychometric properties of the Chinese version of NDQ (NDQ-CV) have been shown to be satisfactory in the general population of Chinese adolescents. This study aims to evaluate the psychometric properties of NDQ...

 Read full article:
<http://doi.org/10.1037/drm0000297>

Assessing attitudes toward dream incubation: A new scale.



 2025-03-06  1 min  81 words

DREAMING

Summary: This study aims to develop the Dream Incubation Attitude Scale for assessing attitudes toward dream incubation. The Dream Incubation Attitude Scale underwent psychometric testing based on responses drawn from 109 Hong Kong participants. This resulted in a three-factor structure comprising self-effic...

 Read full article:
<http://doi.org/10.1037/drm0000306>

Flying dreams stimulated by targeted movement and sound: Art and science in the dream hotel.




 2025-04-28  1 min  241 words

DREAMING

Summary: We present Dream Hotel Room 1, a sculptural artwork by Carsten Höller (with Adam Haar Horowitz) that uses dream engineering techniques to induce flying dreams. Dreams of flying are an exceptional experience; even years after their occurrence, people report these remain some of the most meaningful an...

 **Read full article:**
<http://doi.org/10.1037/drm0000308>

Monthly Updates [May]

 2025-05-01  3 min  704 words

FMHY




Summary:

INFO

These update threads only contains major updates. If you're interested in seeing all minor changes you can follow our [Commits Page](https://github.com/fmhy/FMHYedit/commits/main) on ...

 **Read full article:**
<https://fmhy.net/posts/may-2025>

Monthly Updates [June]


 2025-06-01
  3 min
  761 words




FMHY

Summary: **INFO**
 These update threads only contains major updates. If you're interested in seeing all minor changes you can follow our [Commits Page](https://github.com/fmhy/FMHYedit/commits/main) on ...

 Read full article:
<https://fmhy.net/posts/june-2025>

I made a GUI framework for Python!

 /u/Massive-
 Tale-7527




 2025-11-09
  1 min
  187 words

REDDIT PYTHON

Summary: Hai!!
 I made a small program called SmolPyGUI, it's a GUI framework based in pygame.
 What My Project Does: It's a module that allows for easier creation of GUIs, I've also found that it works well for visual novel-style games.

 Read full article:
https://www.reddit.com/r/Python/comments/1osxjsk/i_made_a_gui_framework_for_python/

The Manuscripts of Edsger W. Dijkstra

 2025-11-09  1 min  2 words

HACKER NEWS




Summary: [Comments](https://news.ycombinator.com/item?id=45866224)



Read full article:

<https://www.cs.utexas.edu/~EWD/>

Ask HN: What Are You Working On? (Nov 2025)

 2025-11-09  1 min  2 words

HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45869146)






Read full article:

<https://news.ycombinator.com/item?id=45869146>

Are meta-scientists ignoring philosophy of science?

 noreply@blogger.com (Daniel Lakens)

 2025-07-04  8 min  1681 words




TWENTY PERCENT STATISTICIAN

Summary: <p>Are meta-scientists ignoring philosophy of science (PoS)? Are they re-inventing the wheel? A recent panel at the Metascience conference engaged with this question, and the first sentence of the abstract states “Critics argue t...


 Read full article:

<http://daniellakens.blogspot.com/2025/07/are-meta-scientists-ignoring-philosophy.html>

Table of Contents

 2025-09-19  1 min  1 words

TRANSACTIONS HAPTICS

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<http://ieeexplore.ieee.org/document/11174043>

Front Cover




 2025-09-19  1 min  1 words

TRANSACTIONS HAPTICS

 Read full article:

<http://ieeexplore.ieee.org/document/11174042>

A Manual for Genome and Transcriptome Engineering

 2024-11-08  1 min  199 words




REVIEWS BIOMEDICAL ENGINEERING

Summary: Genome and transcriptome engineering have emerged as powerful tools in modern biotechnology, driving advancements in precision medicine and novel therapeutics. In this review, we provide a comprehensive overview of the current methodologies, applications, and future directions in genome and transcri...

 Read full article:

<http://ieeexplore.ieee.org/document/10747755>

Advancing Cardiac Organoid Engineering Through Application of Biophysical Forces

 2024-12-09  1 min  188 words




REVIEWS BIOMEDICAL ENGINEERING

Summary: Cardiac organoids represent an important bioengineering opportunity in the development of models to study human heart pathophysiology. By incorporating multiple cardiac cell types in three-dimensional culture and developmentally-guided biochemical signaling, cardiac organoids recapitulate numerous f...

 Read full article:

<http://ieeexplore.ieee.org/document/10787078>

Foundation Model for Advancing Healthcare: Challenges, Opportunities and Future Directions

 2024-11-12  1 min  214 words



REVIEWS BIOMEDICAL ENGINEERING

Summary: Foundation model, trained on a diverse range of data and adaptable to a myriad of tasks, is advancing healthcare. It fosters the development of healthcare artificial intelligence (AI) models tailored to the intricacies of the medical field, bridging the gap between limited AI models and the varied n...

 Read full article:

<http://ieeexplore.ieee.org/document/10750441>

Artificial General Intelligence for Medical Imaging Analysis

 2024-11-07  1 min  159 words



REVIEWS BIOMEDICAL ENGINEERING

Summary: Large-scale Artificial General Intelligence (AGI) models, including Large Language Models (LLMs) such as ChatGPT/GPT-4, have achieved unprecedented success in a variety of general domain tasks. Yet, when applied directly to specialized domains like medical imaging, which require in-depth expertise, ...

 Read full article:

<http://ieeexplore.ieee.org/document/10746601>

Earable Multimodal Sensing and Stimulation: A Prospective Toward Unobtrusive Closed-Loop Biofeedback

 2024-11-29  1 min  200 words



REVIEWS BIOMEDICAL ENGINEERING

Summary: The human ear has emerged as a bidirectional gateway to the brain's and body's signals. Recent advances in around-the-ear and in-ear sensors have enabled the assessment of biomarkers and physiomarkers derived from brain and cardiac activity using ear-electroencephalography (ear-EEG), photoplethysmog...

 Read full article:

<http://ieeexplore.ieee.org/document/10771694>

Editorial: Harnessing Reviews to Advance Biomedical Engineering's New Horizons

 2025-01-28  1 min  1 words

REVIEWS BIOMEDICAL ENGINEERING

 Read full article:

<http://ieeexplore.ieee.org/document/10856220>

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 2025-01-28  1 min  1 words

REVIEWS BIOMEDICAL ENGINEERING


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<http://ieeexplore.ieee.org/document/10856214>

IEEE Engineering in Medicine and Biology Society

 2025-01-28  1 min  1 words

REVIEWS BIOMEDICAL ENGINEERING


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Front Cover

 2025-01-28  1 min  1 words

REVIEWS BIOMEDICAL ENGINEERING

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<http://ieeexplore.ieee.org/document/10856260>

Electroencephalographic Functional Connectivity, Heartrate Synchrony, and Eye Movements Reveal Distinct Components within Narrative Engagement and Immersion

 2025-09-08  1 min  220 words




COGNITIVE NEUROSCIENCE

Summary: Storytelling is a fundamental and universal human behavior, representing a vehicle for cultural information exchange throughout human history. In the present day, consumption of narrative audiovisual media is one of the most common recreational activities worldwide. Despite the importance and ubiqui...

 Read full article:


<http://ieeexplore.ieee.org/document/11153361>

Object Ownership Processing in Peripersonal Space: An Electroencephalographic Study

 2025-09-08  1 min  251 words

COGNITIVE NEUROSCIENCE

Summary: A fundamental aspect of interacting with objects in the environment is the ability to distinguish between objects that can be directly acted upon in the peripersonal space (PPS) and those out of immediate reach in the extrapersonal space (EPS). Performing appropriate actions also requires integratin...

 Read full article:

<http://ieeexplore.ieee.org/document/11153352>

Neural Signatures of Recollection Are Sensitive to Memory Quality and Specific Event Features

 2025-09-08  1 min  243 words

COGNITIVE NEUROSCIENCE


Summary: Episodic memories reflect a bound representation of multimodal features that can be recollected with varying levels of precision. Recent fMRI investigations have demonstrated that the precision and content of information retrieved from memory engage a network of posterior medial-temporal and parieta...

 Read full article:

<http://ieeexplore.ieee.org/document/11153355>

Exploring the mechanism of the age-related P3 anterior shift

 1
min

 22
words


BRAIN RESEARCH

Summary: <p>Publication date: 15 December 2025</p><p>Source: Brain Research, Volume 1869</p><p>Author(s): Genevieve Z. Steiner-Lim, Jack S. Fogarty, Robert J. Barry, Frances M. De Blasio</p>

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0006899325005918?dgcid=rss_sd_all

Editorial: Integrating motivation and attention: behavioral and neural perspectives

 Fabio Di
Bello

 17

2025-11-07

 1
min

 0
words


FRONTIERS HUMAN NEUROSCIENCE

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1729668>

Changes in hemispheric dominance following targeted muscle reinnervation: a case study

 Jorge
Zuniga

 2025-11-07

 1
min

 353
words


FRONTIERS HUMAN NEUROSCIENCE


Summary: Phantom limb pain (PLP) after amputation is a multifaceted condition. Targeted muscle reinnervation (TMR) surgery coapts amputated nerves to motor nerves of regional muscles, closing the neuromuscular loop, enabling improved myoelectric prosthesis control and reducing PLP. Long-term effects of TMR a...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1665931>

Decoding saccadic eye movements from brain signals using an endovascular neural interface

 Suleman Rasheed, James Bennett, Peter E Yoo, Anthony N Burkitt and David B
Grayden

 2025-10-23

 1
min

 299
words

JOURNAL NEURAL ENGINEERING

Summary: Objective. An oculomotor brain–computer interface (BCI) records neural activity from brain regions involved in planning eye movements and translates this activity into control commands. While previous successful studies have relied on invasive implants in non-human primates or electrooculography art...

 Read full article:

<http://iopscience.iop.org/article/10.1088/1741-2552/ae0f52>

The impact of CSF-filled cavities on scalp EEG and its implications



Maria Carla
Piastra



2024-06-14



1
min



64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...



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Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research



Julius
Welzel



2024-07-02



1
min



72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...






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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-Sosa

 2024-08-22  1 min

 2 words


OOSTENVELD ROBERT



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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxObIm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110004258&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/39174725/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxObIm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110004258&v=2.18.0.post22+67771e2)

Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity

 Richard J A van Wezel

 2024-09-04  1 min

 65 words

OOSTENVELD ROBERT


Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...


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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxObIm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110004258&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/39229492/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxObIm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110004258&v=2.18.0.post22+67771e2)

The past, present, and future of the brain imaging data structure (BIDS)

 Krzysztof J
Gorgolewski

 2024-09-23

 1
min

 82
words

OOSTENVELD ROBERT


Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...


 **Read full article:**

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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

 Fanny
Quandt

 2025-01-09

 1
min

 65
words

OOSTENVELD ROBERT


Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...


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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

 Luca
Pollonini

 17 2025-01-27

 1
min

 70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


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Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility

 Lyuba
Zehl

 17 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT


Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT

Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...


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Microglial Necroptosis Mediated by RIPK3 Leads to Retinal Ganglion Cell Apoptosis Through the Release of FGF2 After Ischemia/Reperfusion

 Aimin
Sang

 17 2025-11-06

 1
min

 68
words

LOW VISION


Summary: The aim of this study was to explore the function of receptor-interacting protein kinase 3 (RIPK3) on retinal neuron damage induced by retinal ischemia/reperfusion (IR). Microglia-specific RIPK3 knockout (KO) mice were employed to establish retinal IR models. Retinal structural and functional status...



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Retinal Vasculitis as an Initial Presentation of Atypical Neurosarcoidosis With Occult Central Nervous System Inflammation

 Albert S
Li

 2025-11-07  1
min

 66
words

LOW VISION


Summary: Purpose: To describe a case of retinal vasculitis as a presenting sign of atypical neurosarcoidosis with occult central nervous system involvement. Methods: A case report and literature review are presented, highlighting the role of the ophthalmic examination and the importance of early neurologic w...

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BMR-YOLO: A deep learning approach for fall detection in complex environments

 Ping
Lan

 2025-11-07  1
min

 61
words

LOW VISION

Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...

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Object recognition from sparse simulated phosphenes and curved segments



Michael H
Herzog



2025-11-07



1
min



71
words

LOW VISION

Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...



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A 2D-digital spectral sensing method for rapid antibiotic detection in water



Xin
Zhang



2025-11-07



1
min



74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...




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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia

 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...


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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07

 1
min

 65
words

LOW VISION

Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...

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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study



Paula Fávoro
Polastri



2025-11-07



1
min



71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...



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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model



Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...






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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION




Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...

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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas Hummel

 2025-05-28  1 min  70 words

TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...

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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki Kajimoto

 2025-06-17  1 min  75 words

TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...

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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent

 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...



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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 17 2025-08-01  1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...



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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain

 Eric
Fjeldheim

 17 2025-08-24  1
min

 22
words

TACTILE ACUITY

Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.

 **Read full article:**

<https://pubmed.ncbi.nlm.nih.gov/40850311/?>

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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study



Paula Anne Newman-
Casey



2025-09-09



1
min



74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...



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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...






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The coarse mental map of the breast is anchored on the nipple

 Charles M
Greenspon

 2025-09-18  1
min

 86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words

TACTILE ACUITY

Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...

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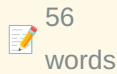
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Wireless Electrotactile System with Hydrogel-Based Electrodes for Conformal Tactile Interaction

Ji
Liu

2025-09-02

1
min56
words

BRAILLE

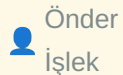
Summary: A wireless epidermal electrotactile interface is demonstrated through integration of skin-conformal electrodes and flexible circuitry, addressing existing limitations in haptic technology caused by mechanical mismatch and system-level integration challenges. This electrotactile system achieves low s...



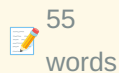
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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

Önder
İşlek

2025-09-12

1
min55
words

BRAILLE


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...






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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words


BRAILLE

Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

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
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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya
Singh

 2025-10-03

 1
min

 73
words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...


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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille

Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions



Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study



Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...



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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17

2025-11-01



1

min



35

words

BRAILLE

Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.







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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05  1 min  63 words


BRAILLE




Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...

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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07  1 min  51 words


BRAILLE



Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Non-invasive neuromodulation for the treatment of drug-resistant epilepsy: Protocol for a systematic review and meta-analysis investigating efficacy, safety, and optimal stimulation parameters


 Hugh D
Simpson

 2025-11-06  1
min

 63
words

TDCS TACS TRNS

Summary: BACKGROUND: Non-invasive neuromodulation presents as an exciting potential adjunctive therapy for people with drug-resistant epilepsy (DRE). A major advantage of this approach is the absence of the neurocognitive and systemic adverse events commonly associated with anti-seizure medications (ASM), an...

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Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice



Yu

Fu



2025-11-06

1
min35
words

TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.



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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?

André Russowsky
Brunoni

2025-11-06

1
min2
words

TDCS TACS TRNS

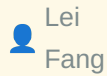


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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis



Lei

Fang



2025-11-07



1

min



38

words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.



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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=143rKCPgMwbasrj66gQ1r1ebioUg42SIGRyVKSoW4m6X-ecQ00&fc=None&ff=20251110004244&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41200450/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=143rKCPgMwbasrj66gQ1r1ebioUg42SIGRyVKSoW4m6X-ecQ00&fc=None&ff=20251110004244&v=2.18.0.post22+67771e2)

Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke



Gabriela

Castellano



2025-11-07



1

min



63

words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...



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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS


Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.



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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...


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Exploring the Mechanism of Transcranial Direct Current Stimulation Combined with Aerobic Exercise in Improving Working Memory of Post-Stroke Patients with Cognitive Dysfunction: An Event-Related Potentials Study

 Yingying
Ji

 2025-11-08

 1
min

 37
words

TDCS TACS TRNS

Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.

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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

Wen
Wu


17 2025-11-03

1
min

36
words

FNIRS

Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

Min-Seong
Ha

17 2025-11-03

1
min

56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...

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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao



2025-11-03



1
min



75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...



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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu



2025-11-03



1
min



68
words

fNIRS

Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...






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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...


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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fN...


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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
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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
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Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 17 2025-11-07

 1
min

 58
words

FNIRS


Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...

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SFT-HN: a novel spatial-frequency-temporal hybrid network for EEG-based emotion recognition

 Jianhai
Zhang

 17 2025-11-07

 1
min

 72
words

BRAIN COMPUTER INTERFACE

Summary: Electroencephalograph (EEG) emotion recognition is a key task in the brain-computer interface(BCI) field. A mounting quantity of studies have shown that deep learning methods for emotion recognition exhibit superior performance compared to traditional techniques. However, it is still challenging to ...


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A dual-branch neural network and attention mechanism for decoding EEG-based motor imagery

 Chunfang
Wang

 2025-11-07

 1
min

 66
words

BRAIN COMPUTER INTERFACE

Summary: Motor imagery (MI) is a fundamental paradigm in brain-computer interfaces (BCIs), extensively employed to assist individuals with disabilities to operate external devices. Accurate decoding of MI signals is essential for effective interaction. However, robust decoding remains a challenge due to the ...


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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan

 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

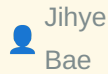
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye

Bae



2025-11-07

1
min69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...



Read full article:

[https://pubmed.ncbi.nlm.nih.gov/41203630/?](https://pubmed.ncbi.nlm.nih.gov/41203630/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post22+67771e2)

[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41203630/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post22+67771e2)

Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina

Simonyan



2025-11-08

1
min38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...




Read full article:

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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler

 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post2+67771e2](https://pubmed.ncbi.nlm.nih.gov/41204711/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post2+67771e2)

Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu

 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


 Read full article:

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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post2+67771e2](https://pubmed.ncbi.nlm.nih.gov/41205408/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post2+67771e2)

BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng

 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

 Read full article:

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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41205562/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post22+67771e2)

On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41205898/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251110004239&v=2.18.0.post22+67771e2)

Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauich-Rodríguez



2025-11-09



1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...



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The sound of manufactured music: Reviewing the role of artificial stimuli in music cognition research.



2024-01-22



1
min



259
words

PSYCHOMUSICOLOGY

Summary: Having participants listen and react to musical stimuli is one of music cognition's foundational methods. Whereas most researchers have used stimuli adapted from existing musical traditions in such work, others have incorporated artificial stimuli (i.e., stimuli generated specifically for research t...



Read full article:

<http://doi.org/10.1037/pmu0000304>

Music-evoked nostalgia and charitable giving: A cross-cultural study in the United States and Mexico.



2024-01-22



1

min



192

words

PSYCHOMUSICOLOGY

Summary: Nostalgia, a past-oriented emotion characterized by complex affective responses, is a pervasive and fundamental human experience. Prior research has demonstrated that nostalgia serves various socioemotional functions, such as promoting a sense of belonging, enhancing one's perception of meaning in l...



Read full article:

<http://doi.org/10.1037/pmu0000302>

Preferred music listening does not affect cognitive inhibition in young and older adults.



2023-10-12



1

min



227

words

PSYCHOMUSICOLOGY



Summary: Previous literature has found links between music listening and cognitive performance. Specifically, background music may play a role in modulating cognitive inhibition. However, determining what type of background music affects cognitive inhibition throughout the lifespan has not been studied. The ...



Read full article:

<http://doi.org/10.1037/pmu0000300>

Absolute pitch: A literature review of underlying factors, with special regard to music pedagogy.

 2023-07-10  1 min  202 words

PSYCHOMUSICOLOGY

Summary: Absolute pitch (AP) is a fairly rare and special phenomenon that has relevance for musicology, psychology, genetics, and neuroscience. AP possessors are able to identify the pitch of an isolated sound or to produce that sound without a reference point. The authors' aim is to review the literature on...

 **Read full article:**
<http://doi.org/10.1037/pmu0000298>

Capturing coordination and intentionality in joint musical improvisation.




 2023-08-03  1 min  217 words

PSYCHOMUSICOLOGY

Summary: Humans collaborate with each other on a wide variety of tasks that are often largely improvised and unscripted. In this study, we investigated the dynamics of coordination in a joint musical improvisation task, what the effect of intentions is on coordination, and how musicians propagate these inten...

 **Read full article:**
<http://doi.org/10.1037/pmu0000299>

Continuous affect responses to a large diverse set of unfamiliar music: Bayesian time-series and cluster analyses.

 2023-04-20  1 min  252 words

PSYCHOMUSICOLOGY

Summary: Sixty-nine participants made continuous response judgments of perceived arousal and valence while listening to 30-s extracts of 100 unfamiliar pieces within a novel recommender system. Our purpose was to take advantage of the relatively large number of participants and pieces studied (compared with ...

 **Read full article:**
<http://doi.org/10.1037/pmu0000295>

Nightmare disorder in women.




 2025-04-24  1 min  284 words

DREAMING

Summary: The aim of this study is to identify the short-term proximate triggers and effects of nightmares in adult women. In total, 85 females and 29 males participated in a 2-week intensive longitudinal assessment of mood, stress, social conflict, and sleep architecture measures. Sleep architecture was moni...

 **Read full article:**
<http://doi.org/10.1037/drm0000309>

Impact of childhood trauma on dreams in adulthood: An Argentine survey.




 2025-04-24  1 min  177 words

DREAMING

Summary: The aim of this study was to assess whether participants who present more frequently with nightmares or distressing dreams have had traumatic experiences in their childhood and their relationship with current personality traits. Three instruments were administered to a sample of 446 adults from the ...

 **Read full article:**
<http://doi.org/10.1037/drm0000307>

Monthly Updates [July]

 2025-07-01  3 min  749 words

FMHY

Summary:

INFO

These update threads only contains major updates. If you're interested in seeing all minor changes you can follow our [Commits Page](https://github.com/fmhy/FMHYedit/commits/main) on ...

 **Read full article:**
<https://fmhy.net/posts/july-2025>

Monthly Updates [August]

17

2025-08-01

4

min

858

words

FMHY

Summary:

INFO

These update threads only contains major updates. If you're interested in seeing all minor changes you can follow our [Commits Page](https://github.com/fmhy/FMHYedit/commits/main) on ...

 **Read full article:**
<https://fmhy.net/posts/aug-2025>

Monthly Updates [Sept]

17

2025-08-31

2

min

569

words

FMHY




Summary:

INFO

These update threads only contains major updates. If you're interested in seeing all minor changes you can follow our [Commits Page](https://github.com/fmhy/FMHYedit/commits/main) on ...

 **Read full article:**
<https://fmhy.net/posts/sept-2025>

Fight Chat Control

 2025-09-04  1 min  153 words


[FMHY](#)

Summary:

The EU (still) wants to scan your private messages and photos. [</h3> <p>The "Chat Control" proposal would mand...](#the-eu-still-wants-to-scan-your-private-messages-and-photos)


 Read full article:
<https://fmhy.net/posts/FCC>

Why We're Here


 2025-09-11  1 min  346 words

[FMHY](#)

Summary: <p>People always want to know what the point of life is. Why are they on earth? What are we doing here? Whats our purpose? Whats the point?</p> <p>For most of my life, I didn't really have any answer, but as I got older, I realized, things weren't about me. I took a step back, and recognize...

 Read full article:
<https://fmhy.net/posts/WWH>

The Computer Church – Pennsylvania Computer and Technology Museum

 gregsadetsky

 17

2025-11-09



1
min



14
words

HACKER NEWS

Summary:

<p>https://web.archive.org/web/20251109210435/https://www.theco...</p> <hr /> <p>Comments URL: https://news.ycombinator.com/item?id=45868...



Read full article:

<https://www.thecomputerchurch.org/>

Bridging Biotech: Regional shifts and patterns



dziura

 17

2025-02-05



1
min



15
words

EMBS

Summary:


<p>The post Bridging Biotech: Regional shifts and patterns appeared first on IEEE EMBS.</p>






Read full article:

<https://www.embs.org/blog-post/regional-shifts-and-patterns/>

Welcoming Dr. Ana Kyani as the New Women in Biomedical Engineering Chair for IEEE EMBS

 Nancy
Zimmerman


 2025-03-27  1
min

 24
words

EMBS


Summary:



The post [Welcoming Dr. Ana Kyani as the New Women in Biomedical Engineering Chair for IEEE EMBS](https://www.embs.org/blog-post/welcoming-dr-ana-kyani-as-wibme-chair-ieee-embs/) appeared first on [IEEE EMBS](https://www.embs.org/).


 Read full article:

<https://www.embs.org/blog-post/welcoming-dr-ana-kyani-as-wibme-chair-ieee-embs/>

Ivan Lee, Appointed Editor-in-Chief of EMBC Proceedings

 Nancy
Zimmerman

 2025-09-08  1
min

 17
words

EMBS

Summary:

The post [Ivan Lee, Appointed Editor-in-Chief of EMBC Proceedings](https://www.embs.org/press/embc-eic-sunghoon-ivan-lee/#new_tab) appeared first on [IEEE EMBS](https://www.embs.org/).

 Read full article:

https://www.embs.org/press/embc-eic-sunghoon-ivan-lee/#new_tab

Designing Hierarchical Exploratory Experiences for Ethnic Costumes: A Cultural Gene-Based Perspective



Ma Xiaofan, Yan Lirong, Zhao Weijia, Zeng Weiping, Wu Huiyue



2025-11-10



1 min



211 words

ARXIV CS HC

Summary: arXiv:2511.05400v1 Announce Type: new Abstract: Ethnic clothing is a vital carrier of cultural identity, yet its digital preservation often results in static displays that fail to convey deep cultural meaning or foster user engagement. Existing practices lack a systematic design framework for trans...



Read full article:

<https://arxiv.org/abs/2511.05400>

Semantic Interactivity: leveraging NLP to enable a shared interaction approach for joint activities



Olaf V. Adan, Dimitra Dritsa, Steven Houben



2025-11-10



1 min



155 words

ARXIV CS HC


Summary: arXiv:2511.05346v1 Announce Type: new Abstract: Collocated collaboration, where individuals work together in the same physical space and time, remains a cornerstone of effective teamwork. However, most collaborative systems are designed to support individual tasks rather than joint activities; they...




Read full article:


<https://arxiv.org/abs/2511.05346>

psiUnity: A Platform for Multimodal Data-Driven XR

 Akhil Ajikumar, Sahil Mayenkar, Steven Yoo, Sakib Reza, Mohsen Moghaddam

 2025-11-10

 1
min


 169
words

ARXIV CS HC

Summary: arXiv:2511.05304v1 Announce Type: new Abstract: Extended reality (XR) research increasingly relies on the ability to stream and synchronize multimodal data between headsets and immersive applications for data-driven interaction and experimentation. However, developers face a critical gap: the Platf...


 Read full article:
<https://arxiv.org/abs/2511.05304>

Interface Homme-Machine pour l'Identification des Liaisons de Coins

 Patrice Labedan, Nicolas Drougard

 2025-11-10

 1
min

 102
words

ARXIV CS HC

Summary: arXiv:2511.05136v1 Announce Type: new Abstract: ACCADIL is a project that led to the development of software tools for the identification of coin die links from coin photographs. It provides a computational algorithm based on computer vision and classification techniques, along with an online inter...

 Read full article:
<https://arxiv.org/abs/2511.05136>

FM4Com: Foundation Model for Scene-Adaptive Communication Strategy Optimization



Zhaoyang Li, Shangzhuo Xie, Qianqian Yang



2025-11-10



1 min



211 words

ARXIV CS HC

Summary: arXiv:2511.05094v1 Announce Type: new Abstract: The emergence of sixth-generation (6G) networks heralds an intelligent communication ecosystem driven by AI-native air interfaces. However, current physical-layer designs-typically following modular and isolated optimization paradigms-fail to achieve ...



Read full article:

<https://arxiv.org/abs/2511.05094>

VEIL: Reading Control Flow Graphs Like Code



Philipp Schaad, Tal Ben-Nun, Torsten Hoefler



2025-11-10



1 min



155 words

ARXIV CS HC


Summary: arXiv:2511.05066v1 Announce Type: new Abstract: Control flow graphs (CFGs) are essential tools for understanding program behavior, yet the size of real-world CFGs makes them difficult to interpret. With thousands of nodes and edges, sophisticated graph drawing algorithms are required to present the...




Read full article:


<https://arxiv.org/abs/2511.05066>

8bit-GPT: Exploring Human-AI Interaction on Obsolete Macintosh Operating Systems

 Hala Sheta

 2025-11-10

 1 min

 114 words


ARXIV CS HC

Summary: arXiv:2511.05025v1 Announce Type: new Abstract: The proliferation of assistive chatbots offering efficient, personalized communication has driven widespread over-reliance on them for decision-making, information-seeking and everyday tasks. This dependence was found to have adverse consequences on i...

 Read full article:


<https://arxiv.org/abs/2511.05025>

Do intelligent tutoring systems benefit K-12 students? A meta-analysis and evaluation of heterogeneity of treatment effects in the U.S

 Walter L. Leite, Huibin Zhang, Shibani Rana, Yide Hao, Amber D. Hatch, Lingchen Kong, Huan Kuang

 2025-11-10

 1 min

 130 words

ARXIV CS HC

Summary: arXiv:2511.04997v1 Announce Type: new Abstract: To expand the use of intelligent tutoring systems (ITS) in K-12 schools, it is essential to understand the conditions under which their use is most beneficial. This meta-analysis evaluated the heterogeneity of ITS effects across studies focusing on el...

 Read full article:

<https://arxiv.org/abs/2511.04997>

Enhancing Public Speaking Skills in Engineering Students Through AI



Amol Harsh, Brainerd Prince, Siddharth Siddharth, Deepan Raj Prabakar Muthirayan, Kabir S Bhalla, Esraaj Sarkar Gupta, Siddharth Sahu



2025-11-10



1
min



243
words

ARXIV CS HC

Summary: arXiv:2511.04995v1 Announce Type: new Abstract: This research-to-practice full paper was inspired by the persistent challenge in effective communication among engineering students. Public speaking is a necessary skill for future engineers as they have to communicate technical knowledge with diverse...



Read full article:

<https://arxiv.org/abs/2511.04995>

Scientific judgment drifts over time in AI ideation



Lingyu Zhang, Mitchell Wang, Boyuan Chen



2025-11-10



1
min



273
words

ARXIV CS HC

Summary: arXiv:2511.04964v1 Announce Type: new Abstract: Scientific discovery begins with ideas, yet evaluating early-stage research concepts is a subtle and subjective human judgment. As large language models (LLMs) are increasingly tasked with generating scientific hypotheses, most systems assume that sci...



Read full article:

<https://arxiv.org/abs/2511.04964>

Internal World Models as Imagination Networks in Cognitive Agents



Saurabh Ranjan, Brian
Odegaard



2025-11-10



1
min



152
words

ARXIV QBIO NC

Summary: arXiv:2510.04391v2 Announce Type: replace-cross Abstract: What is the computational objective of imagination? While classical interpretations suggest imagination is useful for maximizing rewards, recent findings challenge this view. In this study, we propose that imagination serves to access an int...



Read full article:

<https://arxiv.org/abs/2510.04391>

Quantifying Uncertainty in Error Consistency: Towards Reliable Behavioral Comparison of Classifiers



Thomas Klein, Sascha Meyen, Wieland Brendel, Felix A. Wichmann, Kristof
Meding



2025-11-10



1
min



250
words

ARXIV QBIO NC

Summary: arXiv:2507.06645v2 Announce Type: replace Abstract: Benchmarking models is a key factor for the rapid progress in machine learning (ML) research. Thus, further progress depends on improving benchmarking metrics. A standard metric to measure the behavioral alignment between ML models and human obser...



Read full article:

<https://arxiv.org/abs/2507.06645>

Generalizable, real-time neural decoding with hybrid state-space models



Avery Hee-Woon Ryoo, Nanda H. Krishna, Ximeng Mao, Mehdi Azabou, Eva L. Dyer, Matthew G. Perich, Guillaume Lajoie



2025-11-10



1
min



242
words

ARXIV QBIO NC

Summary: arXiv:2506.05320v2 Announce Type: replace Abstract: Real-time decoding of neural activity is central to neuroscience and neurotechnology applications, from closed-loop experiments to brain-computer interfaces, where models are subject to strict latency constraints. Traditional methods, including si...



Read full article:

<https://arxiv.org/abs/2506.05320>

TRACE: Contrastive learning for multi-trial time-series data in neuroscience



Lisa Schmors, Dominic Gonschorek, Jan Niklas Blöhm, Yongrong Qiu, Na Zhou, Dmitry Kobak, Andreas Tolias, Fabian Sinz, Jacob Reimer, Katrin Franke, Sebastian Damrich, Philipp Berens



2025-11-10



1
min



145
words

ARXIV QBIO NC

Summary: arXiv:2506.04906v2 Announce Type: replace Abstract: Modern neural recording techniques such as two-photon imaging or Neuropixel probes allow to acquire vast time-series datasets with responses of hundreds or thousands of neurons. Contrastive learning is a powerful self-supervised framework for lear...






Read full article:

<https://arxiv.org/abs/2506.04906>

ActiTest: A Generalizable Machine Learning Pipeline for REM Sleep Behavior Disorder Screening through Standardized Actigraphy

David Bertram, Anja Ophey, Sinah Rottgen, Konstantin Kuffer, Gereon R. Fink, Elke Kalbe, Clint Hansen, Walter Maetzler, Maximilian Kapsecker, Lara M. Reimer, Stephan Jonas, Andreas T. Damgaard, Natasha B. Bertelsen, Casper Skjaerbaek, Per Borghammer, Karolien Groenewald, Pietro-Luca Ratti, Michele T. Hu, Noémie Moreau, Michael Sommerauer, Katarzyna Bozek

 2025-11-10  1 min  242 words

ARXIV QBIO NC

Summary: arXiv:2511.05221v1 Announce Type: cross Abstract: Isolated rapid eye movement sleep behavior disorder (iRBD) is a major prodromal marker of α -synucleinopathies, often preceding the clinical onset of Parkinson's disease, dementia with Lewy bodies, or multiple system atrophy. While wrist-worn ...

 **Read full article:**
<https://arxiv.org/abs/2511.05221>

A Penny for Your Thoughts: Decoding Speech from Inexpensive Brain Signals



Quentin Auster, Kateryna Shapovalenko, Chuang Ma, Demaio

Sun



2025-11-10

1
min108
words

ARXIV QBIO NC

Summary: arXiv:2511.04691v1 Announce Type: cross Abstract: We explore whether neural networks can decode brain activity into speech by mapping EEG recordings to audio representations. Using EEG data recorded as subjects listened to natural speech, we train a model with a contrastive CLIP loss to align EEG-d...



Read full article:

<https://arxiv.org/abs/2511.04691>

Travelling waves modulated by subthreshold oscillations in networks of integrate-and-fire neurons



Henry D. J. Kerr, Peter Ashwin, Kyle C. A.

Wedgwood



2025-11-10

1
min222
words

ARXIV QBIO NC

Summary: arXiv:2511.05232v1 Announce Type: new Abstract: Travelling waves of neural firing activity are observed in brain tissue as a part of various sensory, motor and cognitive processes. They represent an object of major interest in the study of excitable networks, with analysis conducted in both neural ...



Read full article:

<https://arxiv.org/abs/2511.05232>

Predicting Cognitive Assessment Scores in Older Adults with Cognitive Impairment Using Wearable Sensors



Assma Habadi, Milos Zefran, Lijuan Yin, Woojin Song, Maria Caceres, Elise Hu, Naoko Muramatsu



2025-11-10



1
min



255
words

ARXIV QBIO NC

Summary: arXiv:2511.04983v1 Announce Type: new Abstract: Background and Objectives: This paper focuses on using AI to assess the cognitive function of older adults with mild cognitive impairment or mild dementia using physiological data provided by a wearable device. Cognitive screening tools are disruptive...



Read full article:

<https://arxiv.org/abs/2511.04983>

Duration-modulated neural population dynamics in humans during BMI controls



Fei Yin, Charles Guan, Tyson Aflalo, Jorge Gamez, Kelsie Pejisa, Emily Rosario, Charles Liu, Ausaf Bari, Richard Andersen



2025-11-10



1
min



153
words

ARXIV QBIO NC


Summary: arXiv:2511.04887v1 Announce Type: new Abstract: The motor cortex (MC) is often described as an autonomous dynamical system during movement execution. In an autonomous dynamical system, flexible movement generation depends on reconfiguring the initial conditions, which then unwind along known dynami...




Read full article:

<https://arxiv.org/abs/2511.04887>

Shaping manifolds in equivariant recurrent neural networks

 Arianna Di Bernardo, Adrian Valente, Francesca Mastrogiuseppe, Srdjan Ostojic

 2025-11-10

 1
min


 272
words

ARXIV QBIO NC

Summary: arXiv:2511.04802v1 Announce Type: new Abstract: Recordings of increasingly large neural populations have revealed that the firing of individual neurons is highly coordinated. When viewed in the space of all possible patterns, the collective activity forms non-linear structures called neural manifolds...

 **Read full article:**
<https://arxiv.org/abs/2511.04802>

BDNF in ventrolateral orbitofrontal cortex to dorsolateral striatum circuit moderates alcohol consumption, seeking and relapse




 2025-11-09  1
min  0
words

NATURE NEUROSCIENCE SUBJECTS

 **Read full article:**
<https://www.nature.com/articles/s41386-025-02274-1>

Neuronal normalization in monkey MT is an intensity-weighted average

Chery CherianJohn H. R. MaunsellaCommittee on Neurobiology, University of Chicago, Chicago, IL 60637bDepartment of Neurobiology, University of Chicago, Chicago, IL 60637cNeuroscience Institute, University of Chicago, Chicago, IL 60637

 2025-11-06  1 min  51 words

PNAS NEUROSCIENCE



Summary: Proceedings of the National Academy of Sciences, Volume 122, Issue 45, November 2025.
SignificanceSensory neurons must remain selective for specific features in a scene, even when many stimuli fall within their receptive fields (RFs). In natural vision, this selectivity is preserved by a proce...

 **Read full article:**

<https://www.pnas.org/doi/abs/10.1073/pnas.2522104122?af=R>

Dynamic changes of dopamine neuron activity and plasticity at different stages of negative reinforcement learning

Qiangqiang ChengWenqing LiuLi YaoShuyuan XuChunling WeiQiaohua ZhengMeilin WuJing HanZhiqiang LiuWei RenZongpeng SunaSchool of Psychology, Shaanxi Normal University, Xi'an 710062, ChinabKey Laboratory of Modern Teaching Technology, Ministry of Education, Shaanxi Normal University, Xi'an 710062, ChinacFaculty of Education, Shaanxi Normal University, Xi'an 710062, China

 2025-11-06  1 min  48 words

PNAS NEUROSCIENCE


Summary: Proceedings of the National Academy of Sciences, Volume 122, Issue 45, November 2025.
SignificanceThe critical role of midbrain dopaminergic neurons in encoding reward prediction error (RPE) signals during negative reinforcement learning (NRL) remains poorly understood. Here, we reveal how the...




Read full article:

<https://www.pnas.org/doi/abs/10.1073/pnas.2509072122?af=R>

Sudden restructuring of memory representations in recurrent neural networks with repeated stimulus presentations

 Jonathon R.
Howlett

 2025-10-22  1
min

 215
words

FRONTIERS COMPUTATIONAL NEUROSCIENCE



Summary: While acquisition curves in human learning averaged at the group level display smooth, gradual changes in performance, individual learning curves across cognitive domains reveal sudden, discontinuous jumps in performance. Similar thresholding effects are a hallmark of a range of nonlinear systems wh...

 Read full article:

<https://www.frontiersin.org/articles/10.3389/fncom.2025.1601641>

Correction: Pre-training, personalization, and self-calibration: all a neural network-based myoelectric decoder needs

 Kianoush
Nazarpour

 2025-09-19  1
min


 0
words

FRONTIERS NEUROROBOTICS

 Read full article:

<https://www.frontiersin.org/articles/10.3389/fnbot.2025.1675642>

A simple robot suggests trunk rotation is essential for emergence of inside leading limb during quadruped galloping turns

 Akio
Ishiguro

 17

2025-10-23



1
min



223
words

FRONTIERS NEUROBOTICS


Summary: During turning maneuvers in the galloping gait of quadruped animals, a strong relationship exists between the turning direction and the sequence in which the forelimbs make ground contact: the outer forelimb acts as the “trailing limb” while the inner forelimb serves as the “leading limb.” However, ...



Read full article:

<https://www.frontiersin.org/articles/10.3389/fnbot.2025.1628368>

Effective and efficient self-supervised masked model based on mixed feature training

 Chunliu
Cai

 17

2025-10-30



1
min



179
words

FRONTIERS NEUROBOTICS


Summary: Under the influence of Masked Language Modeling (MLM), Masked Image Modeling (MIM) employs an attention mechanism to perform masked training on images. However, processing a single image requires numerous iterations and substantial computational resources to reconstruct the masked regions, resulting...



Read full article:


<https://www.frontiersin.org/articles/10.3389/fnbot.2025.1705970>

EEG activity over ipsilateral and contralateral M1 during simple and complex hand tasks: variations with motor learning

 Ryoichi
Nagatomi

 2025-11-06

 1
min

 323
words

FRONTIERS NEUROSCIENCE


Summary: IntroductionThe functional role of the ipsilateral primary motor cortex (iM1) activation in motor skill acquisition is widely researched; however, its interaction with task complexity remains unclear. This study aimed to address a critical gap in motor neuroscience: how the electroencephalogram (EEG...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fnins.2025.1681250>

Pre-clinical development of a wireless neural interface system for osseointegrated prosthetic control in sheep

 Aaron M.
Dingle

 2025-11-06

 1
min

 203
words


FRONTIERS NEUROSCIENCE



Summary: The Osseointegrated Neural Interface (ONI) is an innovative peripheral nerve interface design that houses a transected nerve and coupled electrical components within the medullary canal of long bones for eventual prosthetic control. Before the ONI can enter clinical testing, it must demonstrate long...


 Read full article:

<https://www.frontiersin.org/articles/10.3389/fnins.2025.1681136>

CS-Net: convolutional spider neural network for surface-EMG-based hybrid gesture recognition

 Xi Zhang, Jiannan Chen, Lei Liu and Fuchun Sun

 2025-10-30  1 min

 252 words

JOURNAL NEURAL ENGINEERING



Summary: Objective. In this paper, we propose a novel neural network architecture, the convolutional spider neural network (CS-Net), combined with a transfer learning (TL) strategy, to classify hybrid gestures that integrate wrist postures and hand movements. Approach. The CS-Net framework incorporates diver...


 Read full article:

<http://iopscience.iop.org/article/10.1088/1741-2552/ae0c38>

The impact of CSF-filled cavities on scalp EEG and its implications

 Maria Carla Piastra

 2024-06-14  1 min

 64 words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...

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Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research

 Julius
Welzel



2024-07-02


1
min72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...

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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-
Sosa



2024-08-22

1
min2
words

OOSTENVELD ROBERT

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Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity



Richard J A van
Wezel



2024-09-04



1
min



65
words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...



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The past, present, and future of the brain imaging data structure (BIDS)



Krzysztof J
Gorgolewski



2024-09-23



1
min



82
words

OOSTENVELD ROBERT

Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...




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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

Fanny
Quandt


 2025-01-09

 1
min

 65
words

OOSTENVELD ROBERT

Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...


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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

Luca
Pollonini

 2025-01-27

 1
min

 70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


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
[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110002127&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/39870674/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251110002127&v=2.18.0.post22+67771e2)

Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility

 Lyuba
Zehl

 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT


Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 17 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT

Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...


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Microglial Necroptosis Mediated by RIPK3 Leads to Retinal Ganglion Cell Apoptosis Through the Release of FGF2 After Ischemia/Reperfusion

 Aimin
Sang

 17 2025-11-06

 1
min

 68
words

LOW VISION


Summary: The aim of this study was to explore the function of receptor-interacting protein kinase 3 (RIPK3) on retinal neuron damage induced by retinal ischemia/reperfusion (IR). Microglia-specific RIPK3 knockout (KO) mice were employed to establish retinal IR models. Retinal structural and functional status...

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Retinal Vasculitis as an Initial Presentation of Atypical Neurosarcoidosis With Occult Central Nervous System Inflammation

 Albert S
Li



2025-11-07



1
min



66
words

LOW VISION

Summary: Purpose: To describe a case of retinal vasculitis as a presenting sign of atypical neurosarcoidosis with occult central nervous system involvement. Methods: A case report and literature review are presented, highlighting the role of the ophthalmic examination and the importance of early neurologic w...



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BMR-YOLO: A deep learning approach for fall detection in complex environments

 Ping
Lan



2025-11-07



1
min



61
words

LOW VISION

Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...





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Object recognition from sparse simulated phosphenes and curved segments

 Michael H
Herzog

 2025-11-07

 1
min

 71
words

LOW VISION


Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...


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A 2D-digital spectral sensing method for rapid antibiotic detection in water

 Xin
Zhang

 2025-11-07

 1
min

 74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...


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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia

 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...


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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07

 1
min

 65
words

LOW VISION

Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...

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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study



Paula Fávoro
Polastri



2025-11-07



1
min



71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...



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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model



Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...




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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION



Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...

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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas Hummel

 2025-05-28  1 min  70 words


TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...

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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki Kajimoto

 2025-06-17  1 min  75 words


TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...

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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent


 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...



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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 2025-08-01  1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...



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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain

 Eric
Fjeldheim

 2025-08-24  1
min

 22
words

TACTILE ACUITY

Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.

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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study



Paula Anne Newman-
Casey



2025-09-09



1
min



74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...



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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...





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The coarse mental map of the breast is anchored on the nipple

 Charles M
Greenspon

 2025-09-18  1
min

 86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words

TACTILE ACUITY

Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...

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Wireless Electrotactile System with Hydrogel-Based Electrodes for Conformal Tactile Interaction

Ji
Liu

2025-09-02

 1
min 56
words

BRAILLE

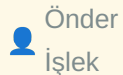
Summary: A wireless epidermal electrotactile interface is demonstrated through integration of skin-conformal electrodes and flexible circuitry, addressing existing limitations in haptic technology caused by mechanical mismatch and system-level integration challenges. This electrotactile system achieves low s...



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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

Önder
İşlek

2025-09-12

 1
min 55
words

BRAILLE


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...






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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort


 Didier K
Ekouevi

 2025-09-27  1
min

 42
words

BRAILLE


Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh

 17

2025-10-03



1
min



73
words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...




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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille

Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions



Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study



Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...



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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17

2025-11-01



1

min



35

words

BRAILLE

Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.







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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05  1 min  63 words


BRAILLE



Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...

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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07  1 min  51 words


BRAILLE


Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Non-invasive neuromodulation for the treatment of drug-resistant epilepsy: Protocol for a systematic review and meta-analysis investigating efficacy, safety, and optimal stimulation parameters

 Hugh D
Simpson

 2025-11-06  1
min

 63
words

TDCS TACS TRNS

Summary: BACKGROUND: Non-invasive neuromodulation presents as an exciting potential adjunctive therapy for people with drug-resistant epilepsy (DRE). A major advantage of this approach is the absence of the neurocognitive and systemic adverse events commonly associated with anti-seizure medications (ASM), an...

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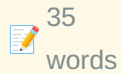
Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice



Yu

Fu

2025-11-06



TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.



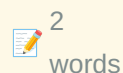
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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?

André Russowsky
Brunoni

2025-11-06



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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis

Lei
Fang

 2025-11-07  1
min

 38
words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.


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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke

Gabriela
Castellano

 2025-11-07  1
min

 63
words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...

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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS


Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.


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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...

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Exploring the Mechanism of Transcranial Direct Current Stimulation Combined with Aerobic Exercise in Improving Working Memory of Post-Stroke Patients with Cognitive Dysfunction: An Event-Related Potentials Study



Yingying
Ji



2025-11-08



1
min



37
words

TDCS TACS TRNS

Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.



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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

Wen
Wu


17 2025-11-03

1
min

36
words

FNIRS

Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

Min-Seong
Ha

17 2025-11-03

1
min

56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...


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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao

 2025-11-03

 1
min

 75
words

FNIRS


Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...



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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu

 2025-11-03  1
min

 68
words

fNIRS


Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...



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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...


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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fN...


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 17 2025-11-07

 1
min

 58
words

FNIRS


Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...

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SFT-HN: a novel spatial-frequency-temporal hybrid network for EEG-based emotion recognition

 Jianhai
Zhang

 17 2025-11-07

 1
min

 72
words

BRAIN COMPUTER INTERFACE

Summary: Electroencephalograph (EEG) emotion recognition is a key task in the brain-computer interface(BCI) field. A mounting quantity of studies have shown that deep learning methods for emotion recognition exhibit superior performance compared to traditional techniques. However, it is still challenging to ...

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A dual-branch neural network and attention mechanism for decoding EEG-based motor imagery

 Chunfang
Wang

 2025-11-07

 1
min

 66
words

BRAIN COMPUTER INTERFACE

Summary: Motor imagery (MI) is a fundamental paradigm in brain-computer interfaces (BCIs), extensively employed to assist individuals with disabilities to operate external devices. Accurate decoding of MI signals is essential for effective interaction. However, robust decoding remains a challenge due to the ...


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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan


 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

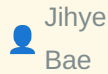
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye
Bae



2025-11-07



1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...



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Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina
Simonyan



2025-11-08



1
min



38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...





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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler

 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu

 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng

 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

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On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


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Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauch-Rodríguez



2025-11-09



1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...



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Building a 2.5kWh battery from disposable vapes to power my workshop [video]



2025-11-03



1
min



2
words

HACKER NEWS




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We Love Horror Stories

 2025-11-05  1 min  2 words

HACKER NEWS




Summary: [Comments](https://news.ycombinator.com/item?id=45824417)



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Montana becomes first state to enshrine 'right to compute' into law

 2025-11-09  1 min  2 words

HACKER NEWS

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Read full article:

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The Sega Master System

 ibobev  2025-11-09  1 min  13 words

HACKER NEWS

Summary:


Article URL: <https://bumbershootsoft.wordpress.com/2025/11/08/the-sega-master-system/>

Comments URL: <https://news.ycombinator.com/item?id=45868259>

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Transient and Sustained Neuromagnetic Representation of Consonance and Dissonance in Harmonic Sequences

 2025-09-08  1 min  244 words




COGNITIVE NEUROSCIENCE

Summary: The perception of musical consonance/dissonance (C/D) relies on basic properties of the auditory system, and prior investigations have shown that C/D sounds elicit strongly divergent neurophysiological activity in human auditory cortex. However, studies are missing that assess transient (P1, N1, P2)...

 Read full article:

<http://ieeexplore.ieee.org/document/11153362>

An Emergentist Account of Language in the Brain—Seeking Neural Synergies Behind Human Uniqueness

 2025-09-08  1 min  176 words

COGNITIVE NEUROSCIENCE

Summary: Cognitive neuroscience has become increasingly open to views of human cognitive faculties as emergent properties—as higher-level products of synergies between brain structures handling qualitatively different functions. This new perspective mitigates claims that cognitive abilities are tied to local...

 Read full article:

<http://ieeexplore.ieee.org/document/11153357>

Impact of Transcutaneous Vagus Nerve Stimulation on Event-related Potentials during a Response Inhibition Task

 2025-09-08  1 min  157 words

COGNITIVE NEUROSCIENCE

Summary: As an emerging neuromodulation technique, transcutaneous auricular vagus nerve stimulation (taVNS) has shown promise in enhancing cognitive abilities. The present study used a combination of the go/no-go task and the stop-signal task experimental paradigm to examine the cognitive effects of taVNS on...

 Read full article:

<http://ieeexplore.ieee.org/document/11153359>

Confidence and Insight into Working Memory Are Shaped by Attention and Recent Performance



2025-09-08

1
min215
words

COGNITIVE NEUROSCIENCE

Summary: Working memory is capacity-limited, and our ability to access information from working memory is variable, but selective attention to working memory contents can improve performance. People are able to make introspective judgments regarding the quality of their memories, and these judgments are link...



Read full article:

<http://ieeexplore.ieee.org/document/11153356>

Antidepressant-like and memory-enhancing effects of 2-phenyl-3-(phenylselanyl)benzofuran on a lipopolysaccharide-induced depression model in male mice: behavioral, biochemical, and molecular insights

1
min43
words

BRAIN RESEARCH

Summary:

Publication date: 15 December 2025

Source: Brain Research, Volume 1869

Author(s): Taís da Silva Teixeira Rech, Mariana Parron Paim, Natalia Gonçalves Tavares, Ila Yasmim Reis Arouche Dantas, José Sebastião Santos Neto, Gabriel da Silva Zani, Silvia de Oliveira Hübner, César Aug...




Read full article:

https://www.sciencedirect.com/science/article/pii/S0006899325005748?dgcid=rss_sd_all

Valproate attenuates neuroinflammation and glial activation in a rat model of fibromyalgia: Evidence for antioxidant and nociceptive modulation

 1
min

 21
words

BRAIN RESEARCH

Summary: <p>Publication date: 15 December 2025</p><p>Source: Brain Research, Volume 1869</p><p>Author(s): Esraa A. Ahmed, Rasha B. Abd-ellatief, Marwa F. Ali, Ahmed M. Abd-Eldayem</p>



Read full article:

https://www.sciencedirect.com/science/article/pii/S0006899325005967?dgcid=rss_sd_all

Neurophysiology of mismatch negativity generation: a biophysical modeling study



Fernandez Pujol, C., Bruce, J., Thorpe, R. V., Jones, S. R., Dykstra, A. R.



2025-11-09



1
min



204
words

BIORXIV NEUROSCIENCE

Summary: The mismatch negativity, or MMN, is a ubiquitous evoked brain response elicited by any discriminable change of an otherwise regular stimulus sequence. Despite its potential clinical relevance - the MMN is known to be affected by brain state, lesions, and neurologic/psychiatric disorders - and a grow...



Read full article:

<https://www.biorxiv.org/content/10.1101/2025.11.08.687373v1?rss=1>

Microglia modulate A β -dependent astrocyte reactivity in Alzheimer's disease



Eduardo R.
Zimmer



2025-11-06



1
min



36
words

NATURE NEUROSCIENCE

Summary: <p>Nature Neuroscience, Published online: 06 November 2025; doi:10.1038/s41593-025-02103-0</p>Microglia influence amyloid- β effects on astrocyte reactivity in the living brain of individuals with Alzheimer's disease. This phenomenon fu...



Read full article:

<https://www.nature.com/articles/s41593-025-02103-0>

Selective direct influence of motor cortex on limb muscle activity during naturalistic climbing in mice



Andrew
Miri



2025-11-06



1
min



43
words

NATURE NEUROSCIENCE


Summary: <p>Nature Neuroscience, Published online: 06 November 2025; doi:10.1038/s41593-025-02093-z</p>Koh, Ma et al. show that during climbing, mouse motor cortex instructs limb muscle activity patterns primarily by selectively activating cert...




Read full article:

<https://www.nature.com/articles/s41593-025-02093-z>

Ipsilateral transfer of motor skill from upper to lower limb in healthy adults: a randomized controlled trial

 Silvi Frenkel-
Toledo

 17 2025-11-04  1
min

 201
words

FRONTIERS HUMAN NEUROSCIENCE



Summary: Intermanual transfer refers to the improvement of motor skill in an untrained contralateral limb following unilateral limb practice. However, it remains uncertain whether motor skill in the lower limb (LL) can improve as a result of practice with the unilateral upper limb (UL). Forty-five healthy pa...


 Read full article:

<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1645986>

End-to-end robot intelligent obstacle avoidance method based on deep reinforcement learning with spatiotemporal transformer architecture

 Weizhong
Zhang

 17 2025-10-08  1
min

 261
words


FRONTIERS NEUROBOTICS


Summary: To enhance the obstacle avoidance performance and autonomous decision-making capabilities of robots in complex dynamic environments, this paper proposes an end-to-end intelligent obstacle avoidance method that integrates deep reinforcement learning, spatiotemporal attention mechanisms, and a Transfo...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fnbot.2025.1646336>

Evaluation of entropy features and classifier performance in person authentication using resting-state EEG

 Renhuan
Yang

 2025-11-04

 1
min

 170
words

FRONTIERS NEUROSCIENCE


Summary: Introduction Resting-state electroencephalogram (EEG) presents a promising biometric modality due to its inherent liveness detection and resistance to spoofing, addressing critical vulnerabilities in conventional systems. However, its deployment faces fundamental trade-offs among accuracy, robustness...

 Read full article:


<https://www.frontiersin.org/articles/10.3389/fnins.2025.1651501>

Neural signatures of engagement in driving: comparing active control and passive observation

 Yasuharu
Koike

 2025-11-06

 1
min

 136
words

FRONTIERS NEUROSCIENCE

Summary: Understanding how the human brain differentiates between active engagement and passive observation is a fundamental question in cognitive neuroscience. Using a matched-stimulus driving paradigm to isolate engagement from sensory input, we recorded whole-brain EEG while participants performed a manua...

 Read full article:

<https://www.frontiersin.org/articles/10.3389/fnins.2025.1698625>

Multitarget neurostimulation of the deep brain: clinical opportunities, challenges, and emerging technologies



Michael J Del Sesto, Serban Negoita, Maria Bruzzone Giraldez, Zachary LaJoie, Khaleda Akhter Sathi, Joshua K Wong, Alik S Widge, Michael S Okun and Adam Khalifa



2025-10-29



1
min



249
words

JOURNAL NEURAL ENGINEERING

Summary: Recent computational, pre-clinical, and clinical studies have demonstrated the potential for using neuromodulation through simultaneous targeting of multiple deep brain regions. This approach has already been used for therapeutic and systems neuroscience applications. However, the broad clinical ado...



Read full article:

<http://iopscience.iop.org/article/10.1088/1741-2552/ae08ea>

The impact of CSF-filled cavities on scalp EEG and its implications



Maria Carla
Piastra



2024-06-14



1
min



64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...



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[hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109234826&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/38873838/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109234826&v=2.18.0.post22+67771e2)

Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research

 Julius
Welzel



2024-07-02



1
min



72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...




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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-
Sosa



2024-08-22



1
min



2
words

OOSTENVELD ROBERT



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Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity



Richard J A van
Wezel



2024-09-04



1
min



65
words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...



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The past, present, and future of the brain imaging data structure (BIDS)



Krzysztof J
Gorgolewski



2024-09-23



1
min



82
words

OOSTENVELD ROBERT

Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...



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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

Fanny
Quandt

17 2025-01-09

1
min

65
words

OOSTENVELD ROBERT

Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...

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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

Luca
Pollonini

17 2025-01-27

1
min

70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


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
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Pseudonymisation of neuroimages and data protection: **Increasing access to data while retaining scientific utility**

 Lyuba
Zehl

 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT

Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 17 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT

Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...

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Microglial Necroptosis Mediated by RIPK3 Leads to Retinal Ganglion Cell Apoptosis Through the Release of FGF2 After Ischemia/Reperfusion

 Aimin
Sang

 17 2025-11-06

 1
min

 68
words

LOW VISION


Summary: The aim of this study was to explore the function of receptor-interacting protein kinase 3 (RIPK3) on retinal neuron damage induced by retinal ischemia/reperfusion (IR). Microglia-specific RIPK3 knockout (KO) mice were employed to establish retinal IR models. Retinal structural and functional status...

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Retinal Vasculitis as an Initial Presentation of Atypical Neurosarcoidosis With Occult Central Nervous System Inflammation

 Albert S
Li

 17

2025-11-07




1
min



66
words

LOW VISION


Summary: Purpose: To describe a case of retinal vasculitis as a presenting sign of atypical neurosarcoidosis with occult central nervous system involvement. Methods: A case report and literature review are presented, highlighting the role of the ophthalmic examination and the importance of early neurologic w...

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BMR-YOLO: A deep learning approach for fall detection in complex environments

 Ping
Lan

 17

2025-11-07



1
min



61
words

LOW VISION


Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...


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Object recognition from sparse simulated phosphenes and curved segments

 Michael H
Herzog

 2025-11-07

 1
min

 71
words

LOW VISION

Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...


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A 2D-digital spectral sensing method for rapid antibiotic detection in water

 Xin
Zhang

 2025-11-07

 1
min

 74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...


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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia

 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...


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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07

 1
min

 65
words

LOW VISION

Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...

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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study



Paula Fávoro
Polastri



2025-11-07



1
min



71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...



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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model



Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...






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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words


LOW VISION



Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...

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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas Hummel

 2025-05-28  1 min  70 words

TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...

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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki Kajimoto

 2025-06-17  1 min  75 words

TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...

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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent

 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...



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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 2025-08-01  1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...



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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain

 Eric
Fjeldheim

 2025-08-24  1
min

 22
words

TACTILE ACUITY

Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.

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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study



Paula Anne Newman-
Casey



2025-09-09



1
min



74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...



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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...






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The coarse mental map of the breast is anchored on the nipple

 Charles M
Greenspon

 2025-09-18  1
min

 86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words

TACTILE ACUITY

Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...

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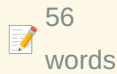
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Wireless Electrotactile System with Hydrogel-Based Electrodes for Conformal Tactile Interaction

Ji
Liu

2025-09-02

1
min56
words

BRAILLE

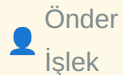
Summary: A wireless epidermal electrotactile interface is demonstrated through integration of skin-conformal electrodes and flexible circuitry, addressing existing limitations in haptic technology caused by mechanical mismatch and system-level integration challenges. This electrotactile system achieves low s...



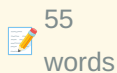
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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

Önder
İşlek

2025-09-12

1
min55
words

BRAILLE


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...






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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words


BRAILLE

Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh



2025-10-03



1
min



73
words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...




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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille

Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions



Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study



Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...



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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17

2025-11-01



1

min



35

words

BRAILLE

Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.







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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05  1 min  63 words


BRAILLE


Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...

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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07  1 min  51 words

BRAILLE



Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Non-invasive neuromodulation for the treatment of drug-resistant epilepsy: Protocol for a systematic review and meta-analysis investigating efficacy, safety, and optimal stimulation parameters

 Hugh D
Simpson

 2025-11-06  1
min

 63
words

TDCS TACS TRNS

Summary: BACKGROUND: Non-invasive neuromodulation presents as an exciting potential adjunctive therapy for people with drug-resistant epilepsy (DRE). A major advantage of this approach is the absence of the neurocognitive and systemic adverse events commonly associated with anti-seizure medications (ASM), an...

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Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice



Yu

Fu

2025-11-06

 1
min

 35
words

TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.



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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?

André Russowsky
Brunoni

2025-11-06

 1
min

 2
words

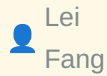
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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis



Lei

Fang



2025-11-07



1

min



38

words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.



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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke



Gabriela

Castellano



2025-11-07



1

min



63

words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...



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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS

Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.

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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review



Zahra
Zolghadr



2025-11-08



1
min



48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...



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Exploring the Mechanism of Transcranial Direct Current Stimulation Combined with Aerobic Exercise in Improving Working Memory of Post-Stroke Patients with Cognitive Dysfunction: An Event-Related Potentials Study

 Yingying Ji

 17

2025-11-08



1 min



37 words

TDCS TACS TRNS

Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.

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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

Wen
Wu


2025-11-03

1
min

36
words

FNIRS

Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

Min-Seong
Ha

2025-11-03

1
min

56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...

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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao

 17

2025-11-03



1
min



75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...


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
[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109234809&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41183054/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109234809&v=2.18.0.post22+67771e2)

Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu

 2025-11-03

 1
min

 68
words

fNIRS


Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...



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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...


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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren


 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fNIRS).


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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
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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109234809&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41196800/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109234809&v=2.18.0.post22+67771e2)

Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 2025-11-07

 1
min

 58
words

FNIRS


Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...

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SFT-HN: a novel spatial-frequency-temporal hybrid network for EEG-based emotion recognition

 Jianhai
Zhang

 2025-11-07

 1
min

 72
words

BRAIN COMPUTER INTERFACE

Summary: Electroencephalograph (EEG) emotion recognition is a key task in the brain-computer interface(BCI) field. A mounting quantity of studies have shown that deep learning methods for emotion recognition exhibit superior performance compared to traditional techniques. However, it is still challenging to ...


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A dual-branch neural network and attention mechanism for decoding EEG-based motor imagery

 Chunfang
Wang

 2025-11-07

 1
min

 66
words

BRAIN COMPUTER INTERFACE

Summary: Motor imagery (MI) is a fundamental paradigm in brain-computer interfaces (BCIs), extensively employed to assist individuals with disabilities to operate external devices. Accurate decoding of MI signals is essential for effective interaction. However, robust decoding remains a challenge due to the ...


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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan

 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

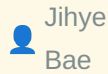
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye
Bae



2025-11-07



1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...



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Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina
Simonyan



2025-11-08



1
min



38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...




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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler

 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu

 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng


 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109234804&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41205562/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109234804&v=2.18.0.post22+67771e2)

On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


 Read full article:

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Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauch-Rodríguez



2025-11-09




1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...

 Read full article:

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[tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109234804&v=2.18.0.post2+67771e2](https://pubmed.ncbi.nlm.nih.gov/41206890/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109234804&v=2.18.0.post2+67771e2)

Psychomusicology: A resounding closing cadence.



2024-01-22



1
min



256
words




PSYCHOMUSICOLOGY

Summary: From 2012 to 2023, the American Psychological Association served as publisher of Psychomusicology: Music, Mind, and Brain. Annabel Cohen and Mark Schmuckler were the successive editors-in-chiefs during this time. As the journal is ceasing publication, the two editors reflect on the developm...

 Read full article:

<http://doi.org/10.1037/pmu0000305>

The impact of unemployment on dream content.




 2025-05-05  1 min  110 words

DREAMING

Summary: This study examines the relationship between employment status and dream content using a data set of 6,478 dream reports collected from Reddit. We used machine learning to analyze thematic differences between unemployed individuals and a control group. The results revealed that the dreams of unemplo...

 Read full article:
<http://doi.org/10.1037/drm0000310>

From falling apart to disturbing dreams: A preliminary examination of self-fragmentation and nightmares.




 2024-12-05  1 min  122 words

DREAMING

Summary: Previous theory suggested a relationship between fragmentation of the self-structure and nightmares. This article examines this possibility by providing an overview of the theoretical rationale for their relationship and a preliminary empirical study exploring the relationships between a brief measu...

 Read full article:
<http://doi.org/10.1037/drm0000296>

Anatomical connectivity-based parcellation of the human orbitofrontal cortex.




 2025-07-10  1 min  222 words

BEHAVIORAL NEUROSCIENCE

Summary: The orbitofrontal cortex (OFC) is critical for learning and decision making, but its organization in terms of anatomical connections to other brain areas is not well understood in humans. Here we used diffusion magnetic resonance imaging and probabilistic tractography to characterize the cortical an...

 **Read full article:**
<http://doi.org/10.1037/bne0000628>

Monthly Updates [Oct]

 2025-10-01  3 min  696 words

FMHY

Summary:

INFO

These update threads only contains major updates. If you're interested in seeing all minor changes you can follow our [Commits Page](https://github.com/fmhy/FMHYedit/commits/main) on ...

 **Read full article:**
<https://fmhy.net/posts/oct-2025>

I wrote up a Python app and GUI for my mini thermal printer



/u/

Bookmore



2025-11-09



1

min



249

words

REDDIT PYTHON

Summary: Hey everyone, it's Mel :) Long time reader, first time poster (I think) I bought a mini thermal printer a few weeks back after spotting it at my local Walmart. I was hoping to use it out of the box with my PC to print shopping lists, to-do lists, notes and wh...



Read full article:

https://www.reddit.com/r/Python/comments/1ost6e1/i_wrote_up_a_python_app_and_gui_for_my_mini/

Easily download files from the Open Science Framework with Papercheck



noreply@blogger.com (Daniel
Lakens)



2025-07-22



3

min



765

words

TWENTY PERCENT STATISTICIAN

Summary: Researchers increasingly use the [Open Science Framework](https://osf.io/) (OSF) to share files, such as data and code underlying scientific publications, or presentations and materials for scientific workshops. The OSF is an amazing service that has contributed immensely to a changed ...



Read full article:

<http://daniellakens.blogspot.com/2025/07/easily-download-files-from-open-science.html>

Applications now being accepted for UC-Davis/SDSU ERP Boot Camp, July 31 – August 9, 2023

Steve
Luck



2023-01-16



1
min



108
words

ERP BOOT CAMP

Summary: The next 10-day ERP Boot Camp will be held July 31 – August 9, 2023 in San Diego, California. We are now taking applications, which will be due by April 1, 2023. [Click here](https://erpinfo.org/summer-boot-camp) for more information. We are currently planning t...



Read full article:

<https://erpinfo.org/blog/2021/12/22/applications-2023>

ERP Decoding for Everyone: Software and Webinar

Steve
Luck



2023-06-23



2
min



420
words

ERP BOOT CAMP


Summary: You can access the recording https://video.ucdavis.edu/media/Virtual+ERP+Boot+CampA+Decoding+for+Everyone%2C+July+25+2023/1_lmwj6bu0 You can access the final PDF of the slides <https://ucdavis.box.com/s/f...>




Read full article:


<https://erpinfo.org/blog/2023/6/23/decoding-webinar>

New Papers: Optimal Filter Settings for ERP Research

 Steve
Luck

 2024-02-04

 2
min

 568
words

ERP BOOT CAMP


Summary: Zhang, G., Garrett, D. R., & Luck, S. J. (in press). Optimal filters for ERP research I: A general approach for selecting filter settings. *Psychophysiology*. <https://doi.org/10.1111/psyp.14531> [<https://www...>

 Read full article:


<https://erpinfo.org/blog/2024/2/4/optimal-filters>

Education: Social and Cultural Issues

 Adriel
Carridice


 2025-02-05

 1
min

 61
words

BRAIN

Summary: Devices that therapeutically aid users with cognitive and learning disabilities/differences should not be equally applied to a general population seeking learning advantages. It must not be assumed that therapies able to improve cognition for mental and cognitive disorders (such as executive control...

 Read full article:

<https://brain.ieee.org/publications/neuroethics-framework/education/education-social-and-cultural-issues/education-social-and-cultural-issues/>

Q&A with Dr. Richard Carson, Professor of Biomedical Engineering and Radiology & Biomedical Imaging, Yale University and Yale School of Medicine



Adriel
Carridice



2025-11-04



1
min



0
words

BRAIN



Read full article:

<https://brain.ieee.org/podcasts/qa-with-dr-richard-carson-professor-of-biomedical-engineering-and-radiology-biomedical-imaging-yale-university-and-yale-school-of-medicine/>

Inverse Problem Approach to Aberration Correction for In Vivo Transcranial Imaging Based on a Sparse Representation of Contrast-Enhanced Ultrasound Data



2025-04-25



1
min



225
words

TRANSACTIONS BIOMEDICAL ENGINEERING




Summary: Objective: Transcranial ultrasound imaging is currently limited by attenuation and aberration induced by the skull. First used in contrast-enhanced ultrasound (CEUS), highly echoic microbubbles allowed for the development of novel imaging modalities such as ultrasound localization microscopy (ULM). ...



Read full article:

<http://ieeexplore.ieee.org/document/10976660>

CLal: Collaborative Learning and Inference for Low-Resolution Physiological Signals: Validation in Clinical Event Detection and Prediction

 2025-04-23  1 min  179 words

TRANSACTIONS BIOMEDICAL ENGINEERING

Summary: While machine learning (ML) techniques have been applied to detection and prediction tasks in clinical data, most methods rely on high-resolution data, which is not routinely available in most Intensive Care Units (ICUs), and perform poorly when faced with class imbalance. Here, we introduce and val...

 Read full article:

<http://ieeexplore.ieee.org/document/10974669>

Perceptual Decoupling Underlies Internal Shielding Benefit during Switches between External and Internal Attention: Evidence from Early Sensory Event-related Potential Components

 2025-09-08  1 min  251 words



COGNITIVE NEUROSCIENCE

Summary: People need to often switch attention between external and internal sources of information, that is, external and internal attention, respectively. There has been a recent surge of research interest in this type of attentional flexibility, which has revealed that it is characterized by an asymmetric...

 Read full article:

<http://ieeexplore.ieee.org/document/11153351>

Lexical and Information Structure Functions of Prosody and Their Relevance for Spoken Communication: Evidence from Psychometric and Electroencephalographic Data

 2025-09-08  1 min  234 words

COGNITIVE NEUROSCIENCE

Summary: Prosody not only distinguishes “lexical” meaning but also plays a key role in information packaging by highlighting the most relevant constituent of the discourse, namely, “focus” information. The present study investigated the role of lexical and focus functions of prosody in the coherent interpret...

 Read full article:


<http://ieeexplore.ieee.org/document/11153358>

Musical Structure Influences the Perception of Sound Location

 2025-09-08  1 min  209 words

COGNITIVE NEUROSCIENCE


Summary: The perception of multilayered auditory stimuli, such as music or speech, relies on the integration of progressively more complex and abstract features as they are processed along the auditory pathway. To investigate whether higher-level musical structure modulates auditory perception or merely the ...

 Read full article:

<http://ieeexplore.ieee.org/document/11153363>

Apprehending relational events: The visual world paradigm and the interplay of event perception and language

 1
min

 14
words

BRAIN RESEARCH

Summary:

Publication date: 15 December 2025

Source: Brain Research, Volume 1869


Author(s): Alon Hafri, John C. Trueswell

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0006899325005633?dgcid=rss_sd_all

Seasonal changes in the balance of brain monoamines of hibernating long-tailed ground squirrels (*Urocitellus undulatus*)

 1
min

 14
words


NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025

Source: Neuroscience, Volume 590

Author(s): Nadezhda M. Zakharova, Yury S. Tarahovsky

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0306452225010395?dgcid=rss_sd_all

Impact of routine rehabilitation training on motor function and activities of daily living in oldest-old patients who have experienced a stroke

 1
min

 18
words

NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025

Source: Neuroscience, Volume 590


Author(s): Yu-Juan Han, Hao-Ming Xu, Shan Han, Pei Dai, Xiao-Ping Kang

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0306452225010498?dgcid=rss_sd_all

Suppression of AKAP150 palmitoylation alleviates seizures in kainic acid-induced epilepsy mice

 1
min

 33
words

NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025

Source: Neuroscience, Volume 590


Author(s): Chen-Chao Chu, Ya-Hui Hu, Hai-Feng Zhang, Gui-Zhou Li, Shi-Yu Wu, Yan-Yu Zang, Jiang Chen, Hao-Yu Wang, Yang-Yang Xu, Hong-Li Guo, Yun Stone Shi, Feng Chen

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0306452225010590?dgcid=rss_sd_all

Mental health and subjective well-being of trans and non-binary population in Colombia

 1
min

 20
words

NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025

Source: Neuroscience, Volume 590

Author(s): María Fernanda Reyes, Natalie Levy, Daniela Maldonado Salamanca, Minna Lyons, Juan-David Leongómez

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0306452225010310?dgcid=rss_sd_all

The golden age of online readout: EEG-informed TMS from manual probing to closed-loop neuromodulation

 1
min

 22
words


NEUROIMAGE

Summary:

Publication date: 15 November 2025





Source: NeuroImage, Volume 322

Author(s): Giuseppe Varone, Mana Biabani, Sara Tremblay, Joshua C. Brown, Elisa Kallioniemi, Nigel C. Rogasch

 Read full article:

https://www.sciencedirect.com/science/article/pii/S1053811925005464?dgcid=rss_sd_all

This Week in The Journal





 McKeon,
P.
  2025-10-08
  1 min
  0 words

JOURNAL NEUROSCIENCE THIS WEEK

 Read full article:

<http://www.jneurosci.org/cgi/content/short/45/41/etwij45412025?rss=1>

This Week in The Journal





 McKeon,
P.
  2025-10-15
  1 min
  0 words

JOURNAL NEUROSCIENCE THIS WEEK

 Read full article:


<http://www.jneurosci.org/cgi/content/short/45/42/etwij45422025?rss=1>

Generation of synthetic TSPO PET maps from structural MRI images

 Marco L.
Loggia
  2025-09-08
  1 min
  250 words


FRONTIERS NEUROINFORMATICS



Summary: IntroductionNeuroinflammation, a pathophysiological process involved in numerous disorders, is typically imaged using [11C]PBR28 (or TSPO) PET. However, this technique is limited by high costs and ionizing radiation, restricting its widespread clinical use. MRI, a more accessible alternative, is com...


 Read full article:

<https://www.frontiersin.org/articles/10.3389/fninf.2025.1633273>

The trade-off between maximizing reconstruction and physiological interpretation of muscle synergies with autoencoders

 Alessandro Scano

 17 2025-10-31  1 min

 246 words

FRONTIERS HUMAN NEUROSCIENCE



Summary: IntroductionIn neuroscience, the muscle synergy method is a widely known computational approach for studying motor control from electromyographic (EMG) recordings. Standard algorithms for synergy extraction rely on a linearity assumption for synergy combination. However, the interactions between mus...


 Read full article:

<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1699799>

The impact of CSF-filled cavities on scalp EEG and its implications

 Maria Carla Piastra

 17 2024-06-14  1 min

 64 words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...

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Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research

 Julius
Welzel



2024-07-02


1
min72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...

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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-
Sosa



2024-08-22

1
min2
words

OOSTENVELD ROBERT

**Read full article:**[https://pubmed.ncbi.nlm.nih.gov/39174725/?](https://pubmed.ncbi.nlm.nih.gov/39174725/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109230209&v=2.18.0.post22+67771e2)[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109230209&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/39174725/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109230209&v=2.18.0.post22+67771e2)

Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity



Richard J A van
Wezel



2024-09-04



1
min



65
words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...



Read full article:

<https://pubmed.ncbi.nlm.nih.gov/39229492/?>

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The past, present, and future of the brain imaging data structure (BIDS)



Krzysztof J
Gorgolewski



2024-09-23



1
min



82
words

OOSTENVELD ROBERT

Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...




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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

Fanny
Quandt


 2025-01-09

 1
min

 65
words

OOSTENVELD ROBERT

Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...


 Read full article:

<https://pubmed.ncbi.nlm.nih.gov/39786979/?>


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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

Luca
Pollonini

 2025-01-27

 1
min

 70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


 Read full article:

<https://pubmed.ncbi.nlm.nih.gov/39870674/?>


[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109230209&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/39870674/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109230209&v=2.18.0.post22+67771e2)

Pseudonymisation of neuroimages and data protection: **Increasing access to data while retaining scientific utility**

 Lyuba
Zehl

 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT


Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 17 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT


Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...


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Microglial Necroptosis Mediated by RIPK3 Leads to Retinal Ganglion Cell Apoptosis Through the Release of FGF2 After Ischemia/Reperfusion

 Aimin
Sang

 17 2025-11-06

 1
min

 68
words

LOW VISION


Summary: The aim of this study was to explore the function of receptor-interacting protein kinase 3 (RIPK3) on retinal neuron damage induced by retinal ischemia/reperfusion (IR). Microglia-specific RIPK3 knockout (KO) mice were employed to establish retinal IR models. Retinal structural and functional status...

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Retinal Vasculitis as an Initial Presentation of Atypical Neurosarcoidosis With Occult Central Nervous System Inflammation

 Albert S
Li



2025-11-07

1
min66
words

LOW VISION

Summary: Purpose: To describe a case of retinal vasculitis as a presenting sign of atypical neurosarcoidosis with occult central nervous system involvement. Methods: A case report and literature review are presented, highlighting the role of the ophthalmic examination and the importance of early neurologic w...

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BMR-YOLO: A deep learning approach for fall detection in complex environments

 Ping
Lan



2025-11-07


1
min61
words


LOW VISION

Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...


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Object recognition from sparse simulated phosphenes and curved segments

 Michael H
Herzog

 2025-11-07

 1
min

 71
words

LOW VISION


Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...


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A 2D-digital spectral sensing method for rapid antibiotic detection in water

 Xin
Zhang

 2025-11-07

 1
min

 74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...

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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia



2025-11-07



1
min



70
words

LOW VISION

Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...




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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj



2025-11-07



1
min



65
words

LOW VISION

Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...



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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study



Paula Fávoro
Polastri



2025-11-07



1
min



71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...



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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model



Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...






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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION



Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...

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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas Hummel

 2025-05-28  1 min  70 words


TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...

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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki Kajimoto

 2025-06-17  1 min  75 words


TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...

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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent

 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...



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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 2025-08-01  1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...



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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain

 Eric
Fjeldheim

 2025-08-24  1
min

 22
words

TACTILE ACUITY

Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.

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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study



Paula Anne Newman-
Casey



2025-09-09



1
min



74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...



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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...





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The coarse mental map of the breast is anchored on the nipple

 Charles M
Greenspon

 2025-09-18  1
min

 86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words

TACTILE ACUITY

Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...

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Wireless Electrotactile System with Hydrogel-Based Electrodes for Conformal Tactile Interaction

Ji
Liu

2025-09-02

 1
min 56
words

BRAILLE

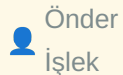
Summary: A wireless epidermal electrotactile interface is demonstrated through integration of skin-conformal electrodes and flexible circuitry, addressing existing limitations in haptic technology caused by mechanical mismatch and system-level integration challenges. This electrotactile system achieves low s...



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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

Önder
İşlek

2025-09-12

 1
min 55
words

BRAILLE


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...






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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words


BRAILLE


Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh

 2025-10-03

 1 min

 73 words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...


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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille

Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions



Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study



Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...



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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17

2025-11-01



1

min



35

words

BRAILLE

Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.







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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05  1 min  63 words


BRAILLE



Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...

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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07  1 min  51 words


BRAILLE


Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Non-invasive neuromodulation for the treatment of drug-resistant epilepsy: Protocol for a systematic review and meta-analysis investigating efficacy, safety, and optimal stimulation parameters


 Hugh D
Simpson

 2025-11-06  1
min

 63
words

TDCS TACS TRNS

Summary: BACKGROUND: Non-invasive neuromodulation presents as an exciting potential adjunctive therapy for people with drug-resistant epilepsy (DRE). A major advantage of this approach is the absence of the neurocognitive and systemic adverse events commonly associated with anti-seizure medications (ASM), an...

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Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice



Yu

Fu



2025-11-06

1
min35
words

TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.



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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?

André Russowsky
Brunoni

2025-11-06

1
min2
words

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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis

 Lei Fang

 17 2025-11-07  1 min

 38 words

TDCS TACS TRNS


Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.


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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke

 Gabriela Castellano

 17 2025-11-07  1 min

 63 words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...

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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS


Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.


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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...


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Exploring the Mechanism of Transcranial Direct Current Stimulation Combined with Aerobic Exercise in Improving Working Memory of Post-Stroke Patients with Cognitive Dysfunction: An Event-Related Potentials Study

 Yingying
Ji

 2025-11-08

 1
min

 37
words

TDCS TACS TRNS

Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.

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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

Wen
Wu

17 2025-11-03

1
min

36
words

FNIRS

Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

Min-Seong
Ha

17 2025-11-03

1
min

56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...


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
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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao

 2025-11-03

 1
min

 75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...


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
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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu

 2025-11-03

 1
min

 68
words

fNIRS


Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...



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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...



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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fN...


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
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Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 17 2025-11-07

 1
min

 58
words

FNIRS


Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...

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SFT-HN: a novel spatial-frequency-temporal hybrid network for EEG-based emotion recognition

 Jianhai
Zhang

 17 2025-11-07

 1
min

 72
words

BRAIN COMPUTER INTERFACE

Summary: Electroencephalograph (EEG) emotion recognition is a key task in the brain-computer interface(BCI) field. A mounting quantity of studies have shown that deep learning methods for emotion recognition exhibit superior performance compared to traditional techniques. However, it is still challenging to ...


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A dual-branch neural network and attention mechanism for decoding EEG-based motor imagery

 Chunfang
Wang

 2025-11-07

 1
min

 66
words

BRAIN COMPUTER INTERFACE

Summary: Motor imagery (MI) is a fundamental paradigm in brain-computer interfaces (BCIs), extensively employed to assist individuals with disabilities to operate external devices. Accurate decoding of MI signals is essential for effective interaction. However, robust decoding remains a challenge due to the ...


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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan


 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

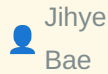
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye
Bae



2025-11-07



1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...



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Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina
Simonyan



2025-11-08



1
min



38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...



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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler

 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu

 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng

 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

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On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


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Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauch-Rodríguez



2025-11-09



1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...



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[tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109230149&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41206890/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109230149&v=2.18.0.post22+67771e2)

Early contingency information enhances human punishment sensitivity when punishment is frequent but not rare.



2025-07-10



1
min



155
words

BEHAVIORAL NEUROSCIENCE




Summary: Individuals differ in sensitivity to the adverse consequences of their actions. We have shown that these differences can be linked to differences in correctly learning causal relationships between actions and their negative consequences. To further assess this, here we used a conditioned punishment ...



Read full article:

<http://doi.org/10.1037/bne0000627>

Deep brain stimulation of nucleus basalis of meynert: Effect of stimulation mode and duration on learning in rat model of dementia.





 2025-06-09  1 min  273 words

BEHAVIORAL NEUROSCIENCE

Summary: Deep brain stimulation (DBS) of the nucleus basalis of Meynert (NBM) has been preliminarily investigated as a potential treatment for dementia. The degeneration of NBM cholinergic neurons is a pathological feature of many forms of dementia. Although NBM stimulation has been demonstrated to improve l...

 Read full article:
<http://doi.org/10.1037/bne0000625>

Display Your Live Spotify Track on Your GitHub Profile using Python/Flask!

 /u/
 MrCrystal_Exe  2025-11-09  1 min  221 words

REDDIT PYTHON




Summary: Hey fellow Python developers! I wanted to share a small, open-source project I built: **Spotify-Live-Banner**.

1. What My Project Does ?

This project is a real-time web service powered by **Python** (Flask) that fetches...

 Read full article:
https://www.reddit.com/r/Python/comments/1osjpd6/display_your_live_spotify_track_on_your_github/

Open source has a growing problem with LLM generated issues





 2025-11-10  1 min  2 words

HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45871531)

 Read full article:
<https://github.com/opencontainers/runc/issues/4990>

Open source has a growing problem with LLM generated issues

 dropbox_miner  2025-11-10  1 min  13 words

HACKER NEWS

Summary:

Article URL: <https://github.com/opencontainers/runc/issues/4990>




Comments URL: <https://news.ycombinator.com/item?id=45871531>

Points: 17

Comments: 5

 Read full article:
<https://github.com/opencontainers/runc/issues/4990>

A Pilot Study on Fabric-Based Pneumatic Soft Gloves for Assisting Patients With Severe Brachial Plexus Injury

 2025-04-22  1 min  256 words


TRANSACTIONS BIOMEDICAL ENGINEERING

Summary: Objective: Robotic gloves show promise in hand assistance due to their wearability and home-based potential, yet empirical research remains limited. This pilot study presents a fabric-based pneumatic soft glove, aiming to identify its potential and challenges in clinical practice by evaluating its e...

 Read full article:

<http://ieeexplore.ieee.org/document/10972321>

Building and Sustaining Open-Source Medical Device Projects

 2025-04-21  1 min  106 words




TRANSACTIONS BIOMEDICAL ENGINEERING

Summary: The open-source development model has been successfully applied to consumer and enterprise software, and recently to consumer hardware. Medical devices may become a beneficiary of this trend, as open-source medical device development has the potential to reduce costs, democratize patient access, and...

 Read full article:

<http://ieeexplore.ieee.org/document/10971951>

A Neighbor-Sensitive Multi-Modal Flexible Learning Framework for Improved Prostate Tumor Segmentation in Anisotropic MR Images

 2025-04-21  1 min  247 words




TRANSACTIONS BIOMEDICAL ENGINEERING

Summary: Accurate segmentation of prostate tumors from multi-modal magnetic resonance (MR) images is crucial for the diagnosis and treatment of prostate cancer. However, the robustness of existing segmentation methods is limited, mainly because these methods 1) fail to flexibly assess subject-specific inform...

 Read full article:

<http://ieeexplore.ieee.org/document/10971210>

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 2025-10-21  1 min  1 words

TRANSACTIONS BIOMEDICAL ENGINEERING

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<http://ieeexplore.ieee.org/document/11210869>

IEEE Transactions on Biomedical Engineering Handling Editors Information




 2025-10-21  1 min  1 words

TRANSACTIONS BIOMEDICAL ENGINEERING

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IEEE Transactions on Biomedical Engineering Information for Authors

 2025-10-21  1 min  1 words

TRANSACTIONS BIOMEDICAL ENGINEERING

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 2025-10-21  1 min  1 words

TRANSACTIONS BIOMEDICAL ENGINEERING

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<http://ieeexplore.ieee.org/document/11210864>

Front Cover

 2025-10-21  1 min  1 words



TRANSACTIONS BIOMEDICAL ENGINEERING



Read full article:

<http://ieeexplore.ieee.org/document/11210866>

Immunomechanobiology: Engineering the Activation and Function of Immune Cells With the Mechanical Signal of Fluid Shear Stress

 2024-11-22  1 min  103 words

REVIEWS BIOMEDICAL ENGINEERING

Summary: Immunomechanobiology, the study of how physical forces influence the behavior and function of immune cells, is a rapidly growing area of research. It is becoming increasingly recognized that mechanical stimuli, such as fluid shear forces, are a critical determinant of immune cell regulation. In this...




Read full article:


<http://ieeexplore.ieee.org/document/10764720>

Call for Applications: IEEE T-MRB Editor in Chief Search

 Deidre
Artis

 17 2025-04-03

 1
min

 18
words

EMBS


Summary: <p>The post Call for Applications: IEEE T-MRB Editor in Chief Search appeared first on IEEE EMBS.</p>

 Read full article:


<https://www.embs.org/uncategorized/call-for-applications-ieee-tmr-editor-in-chief-search/>

Call for Applications Editor-in-Chief: IEEE Open Journal of Engineering in Medicine and Biology

 Deidre
Artis


 17 2025-04-04

 1
min

 22
words

EMBS



Summary: <p>The post Call for Applications Editor-in-Chief: IEEE Open Journal of Engineering in Medicine and Biology appeared first on IEEE EMBS.</p>

 Read full article:

https://www.embs.org/ojemb/search-for-editor-in-chief/#new_tab

Notice to IEEE EMBS Members: Change to Field of Interest

 Nancy
Zimmerman

 2025-04-27  1
min

 19
words



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Notice to IEEE EMBS Members: Change to Field of Interest

 Nancy
Zimmerman

 2025-04-27  1
min

 19
words


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Open Call for AdCom Nominations

 Nancy
Zimmerman


 2025-05-02

 1
min

 14
words


EMBS


Summary: <p>The post Open Call for AdCom Nominations appeared first on IEEE EMBS.</p>

 Read full article:


<https://www.embs.org/uncategorized/call-for-adcom-nominations/>

IEEE EMBS Appoints Sunghoon “Ivan” Lee, Ph.D., as Editor-in-Chief of EMBC Proceedings, the Leading Biomedical Engineering Conference Publication

 Nancy
Zimmerman

 2025-08-19

 1
min

 79
words

EMBS


Summary: <p>(Piscataway, N.J., August 12, 2025) Sunghoon “Ivan” Lee, Ph.D., a Donna M. and Robert J. Manning Faculty Fellow and an Associate Professor of computer science, electrical and computer engineering, and… Continu...

 Read full article:

<https://www.embs.org/press/embc-eic-sunghoon-ivan-lee/>

Frequent object dropping in carpal tunnel syndrome: a consequence of impaired sensorimotor integration?

 1
min

 24
words

BRAIN RESEARCH


Summary: <p>Publication date: 15 December 2025</p><p>Source: Brain Research, Volume 1869</p><p>Author(s): Zeliha Matur, Nimet Dörtcan, Sertaç İmişçi, Melis Süner, Zeynep Acar, Nejla Sözer, Ali Emre Öge</p>

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https://www.sciencedirect.com/science/article/pii/S000689932500592X?dgcid=rss_sd_all


IntegraPose: A unified framework for simultaneous pose estimation and behavior classification

 1
min

 21
words




NEUROSCIENCE JOURNAL

Summary: <p>Publication date: 5 December 2025</p><p>Source: Neuroscience, Volume 590</p><p>Author(s): Farhan Augustine, Sean O'Sullivan, Virginia Murray, Tatsuya Ogura, Weihong Lin, Harvey S. Singer</p>

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Network-informed interventions for psychopathology

 2025-11-07  1 min  0 words





NATURE NEUROSCIENCE SUBJECTS



Read full article:

<https://www.nature.com/articles/s44159-025-00513-2>

Deep brain stimulation of the anterior nucleus of the thalamus for seizures after new-onset refractory status epilepticus: a case report

 Ichiro Nakagawa  2025-10-31  1 min  251 words

FRONTIERS HUMAN NEUROSCIENCE

Summary: ObjectivesMost patients with new-onset refractory status epilepticus (NORSE) subsequently develop drug-resistant epilepsy (DRE) with multiple seizure foci and are not the typical candidates for resective surgery. We report the first case of DRE developing after cryptogenic-NORSE (C-NORSE) that was s...



Read full article:

<https://www.frontiersin.org/articles/10.3389/fnhum.2025.1663280>

A method for the time-frequency analysis of high-order interactions in non-stationary physiological networks



Yuri Antonacci, Chiara Bará, Laura Sparacino, Gorana Mijatovic, Ludovico Minati and Luca Faes



2025-11-07



1
min



271
words

JOURNAL NEURAL ENGINEERING

Summary: Objective. Several data-driven approaches based on information theory have been proposed for analyzing high-order interactions (HOIs) involving three or more components of a network system. The existing methods do not account for temporal correlations in the data, or are defined only in the time dom...



Read full article:

<http://iopscience.iop.org/article/10.1088/1741-2552/ae15c0>

The impact of CSF-filled cavities on scalp EEG and its implications



Maria Carla Piastra



2024-06-14



1
min



64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...



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Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research

 Julius
Welzel

 17

2024-07-02

 1
min

 72
words

OOSTENVELD ROBERT


Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...

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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-
Sosa

 17

2024-08-22

 1
min

 2
words

OOSTENVELD ROBERT

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Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity



Richard J A van
Wezel



2024-09-04



1
min



65
words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...



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The past, present, and future of the brain imaging data structure (BIDS)



Krzysztof J
Gorgolewski



2024-09-23



1
min



82
words

OOSTENVELD ROBERT

Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...



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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

Fanny
Quandt


17 2025-01-09

1
min

65
words

OOSTENVELD ROBERT

Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...

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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

Luca
Pollonini

17 2025-01-27

1
min

70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


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
[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109222034&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/39870674/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109222034&v=2.18.0.post22+67771e2)

Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility

 Lyuba
Zehl


 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT

Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts


 Robert
Oostenveld

 17 2025-08-13  1
min

 69
words

OOSTENVELD ROBERT

Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...



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Microglial Necroptosis Mediated by RIPK3 Leads to Retinal Ganglion Cell Apoptosis Through the Release of FGF2 After Ischemia/Reperfusion

 Aimin
Sang

 17 2025-11-06  1
min

 68
words

LOW VISION

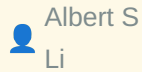
Summary: The aim of this study was to explore the function of receptor-interacting protein kinase 3 (RIPK3) on retinal neuron damage induced by retinal ischemia/reperfusion (IR). Microglia-specific RIPK3 knockout (KO) mice were employed to establish retinal IR models. Retinal structural and functional status...

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Retinal Vasculitis as an Initial Presentation of Atypical Neurosarcoidosis With Occult Central Nervous System Inflammation



Albert S

Li



2025-11-07



1

min



66

words

LOW VISION

Summary: Purpose: To describe a case of retinal vasculitis as a presenting sign of atypical neurosarcoidosis with occult central nervous system involvement. Methods: A case report and literature review are presented, highlighting the role of the ophthalmic examination and the importance of early neurologic w...



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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1xePBFBNvSlegfqCbvp45N3V9WgCNCS63Z1PLmhwJSPGd18QMT&fc=None&ff=20251109222032&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41200723/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1xePBFBNvSlegfqCbvp45N3V9WgCNCS63Z1PLmhwJSPGd18QMT&fc=None&ff=20251109222032&v=2.18.0.post22+67771e2)

BMR-YOLO: A deep learning approach for fall detection in complex environments



Ping

Lan



2025-11-07



1

min



61

words

LOW VISION


Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...




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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1xePBFBNvSlegfqCbvp45N3V9WgCNCS63Z1PLmhwJSPGd18QMT&fc=None&ff=20251109222032&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41202040/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1xePBFBNvSlegfqCbvp45N3V9WgCNCS63Z1PLmhwJSPGd18QMT&fc=None&ff=20251109222032&v=2.18.0.post22+67771e2)

Object recognition from sparse simulated phosphenes and curved segments

 Michael H
Herzog

 2025-11-07

 1
min

 71
words

LOW VISION


Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...


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A 2D-digital spectral sensing method for rapid antibiotic detection in water

 Xin
Zhang

 2025-11-07

 1
min

 74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...


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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia


 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...


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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07

 1
min

 65
words

LOW VISION

Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...

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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study



Paula Fávoro
Polastri



2025-11-07



1
min



71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...



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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model



Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...






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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION



Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...

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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas Hummel

 2025-05-28  1 min  70 words


TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...

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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki Kajimoto

 2025-06-17  1 min  75 words

TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...

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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent

 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...



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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 2025-08-01  1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...



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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain


 Eric
Fjeldheim

 2025-08-24  1
min

 22
words

TACTILE ACUITY

Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.

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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study



Paula Anne Newman-
Casey



2025-09-09



1
min



74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...



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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...






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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1no_pWrIHWS46ep2l9cVOQkZ1QsEMPLx7YY7aF6AfClqP-RYZd&fc=None&ff=20251109222025&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/40945511/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1no_pWrIHWS46ep2l9cVOQkZ1QsEMPLx7YY7aF6AfClqP-RYZd&fc=None&ff=20251109222025&v=2.18.0.post22+67771e2)

The coarse mental map of the breast is anchored on the nipple

 Charles M
Greenspon

 2025-09-18  1
min

 86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words

TACTILE ACUITY

Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...

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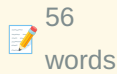
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Wireless Electrotactile System with Hydrogel-Based Electrodes for Conformal Tactile Interaction

Ji
Liu

2025-09-02

1
min56
words

BRAILLE

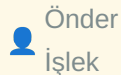
Summary: A wireless epidermal electrotactile interface is demonstrated through integration of skin-conformal electrodes and flexible circuitry, addressing existing limitations in haptic technology caused by mechanical mismatch and system-level integration challenges. This electrotactile system achieves low s...



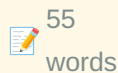
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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

Önder
İşlek

2025-09-12

1
min55
words

BRAILLE


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...






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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words


BRAILLE


Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh

 2025-10-03

 1 min

 73 words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...


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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille


Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions

 Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study

 Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...





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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17 2025-11-01  1
min

 35
words

BRAILLE


Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.



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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05  1 min  63 words


BRAILLE

Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...

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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07  1 min  51 words

BRAILLE



Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Non-invasive neuromodulation for the treatment of drug-resistant epilepsy: Protocol for a systematic review and meta-analysis investigating efficacy, safety, and optimal stimulation parameters


 Hugh D
Simpson

 2025-11-06  1
min

 63
words

TDCS TACS TRNS

Summary: BACKGROUND: Non-invasive neuromodulation presents as an exciting potential adjunctive therapy for people with drug-resistant epilepsy (DRE). A major advantage of this approach is the absence of the neurocognitive and systemic adverse events commonly associated with anti-seizure medications (ASM), an...

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Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice



Yu

Fu



2025-11-06

1
min35
words

TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.



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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?

André Russowsky
Brunoni

2025-11-06

1
min2
words

TDCS TACS TRNS

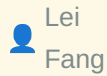


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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis



Lei

Fang



2025-11-07



1

min



38

words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.



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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke



Gabriela

Castellano



2025-11-07



1

min



63

words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...



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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...



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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 17

2025-11-07



1
min



26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.

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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 17

2025-11-08



1
min



34
words

TDCS TACS TRNS


Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.



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
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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...

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Exploring the Mechanism of Transcranial Direct Current Stimulation Combined with Aerobic Exercise in Improving Working Memory of Post-Stroke Patients with Cognitive Dysfunction: An Event-Related Potentials Study



Yingying
Ji



2025-11-08



1
min



37
words

TDCS TACS TRNS

Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.



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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

Wen
Wu

17 2025-11-03

1
min

36
words

FNIRS

Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

Min-Seong
Ha

17 2025-11-03

1
min

56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...


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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao

 2025-11-03

 1
min

 75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...

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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu



2025-11-03



1
min



68
words

fNIRS

Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...






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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...



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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fN...


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
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Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen


 17 2025-11-07

 1
min

 58
words

FNIRS


Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...


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SFT-HN: a novel spatial-frequency-temporal hybrid network for EEG-based emotion recognition

 Jianhai
Zhang

 17 2025-11-07

 1
min

 72
words

BRAIN COMPUTER INTERFACE

Summary: Electroencephalograph (EEG) emotion recognition is a key task in the brain-computer interface(BCI) field. A mounting quantity of studies have shown that deep learning methods for emotion recognition exhibit superior performance compared to traditional techniques. However, it is still challenging to ...


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A dual-branch neural network and attention mechanism for decoding EEG-based motor imagery

 Chunfang
Wang

 2025-11-07

 1
min

 66
words

BRAIN COMPUTER INTERFACE

Summary: Motor imagery (MI) is a fundamental paradigm in brain-computer interfaces (BCIs), extensively employed to assist individuals with disabilities to operate external devices. Accurate decoding of MI signals is essential for effective interaction. However, robust decoding remains a challenge due to the ...


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<https://pubmed.ncbi.nlm.nih.gov/41199758/?>


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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan

 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

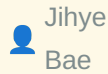
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye

Bae



2025-11-07

1
min69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...



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Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina

Simonyan



2025-11-08

1
min38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...



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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler

 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu


 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng

 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

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On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


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Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauch-Rodríguez



2025-11-09



1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...



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[tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109222013&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41206890/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109222013&v=2.18.0.post22+67771e2)

Influence of context on extinguished appetitive conditioning in male and female rats.



2025-05-15



1
min



230
words

BEHAVIORAL NEUROSCIENCE




Summary: Extinction is fundamental to adaptive behavior in that it allows organisms to alter previously conditioned behaviors based on the prevailing environmental contingencies. Extinguished responses, however, will renew when the conditioned stimulus is presented outside the extinction context. There has b...



Read full article:

<http://doi.org/10.1037/bne0000626>

40 years on, Former Nintendo employees reveal what it took to launch the NES

 2025-11-03  1 min  2 words




HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45803904)

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<https://hanafuda.report/articles/former-nintendo-employees-reveal-what-it-took-to-launch-the-nes-in-america/>

Itiner-e: the Google Maps of Roman Roads

 2025-11-09  1 min  2 words




HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45864341)

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<https://itiner-e.org/>

How the UK lost its shipbuilding industry

 2025-11-10  1 min  2 words





HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45871141)

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<https://www.construction-physics.com/p/how-the-uk-lost-its-shipbuilding>

Show HN: Trilogy Studio, open-source browser-based SQL editor and visualizer

 efromvt  2025-11-09  1 min  182 words

HACKER NEWS

Summary:

SQL-first analytic IDE; similar to Redash/Metabase. Aims to solve reuse/composability at the code layer with modified syntax, Trilogy, that includes a semantic layer directly in the SQL-like language.






Status: experiment; feedback and contributions welcome!

Built to solve 3 problems I have wit...

 Read full article:

https://trilogydata.dev/trilogy-studio-core/#screen=dashboard-import&import=https%3A%2F%2Ftrilogy-data.github.io%2Ftrilogy-public-models%2Fstudio%2Fdemo-model.json&dashboard=demo_dashboard&modelName=demo-model&connection=duckdb

How the UK lost its shipbuilding industry

 surprisetalk  2025-11-10  1 min  13 words 

Summary:

Article URL: <https://www.construction-physics.com/p/how-the-uk-lost-its-shipbuilding>

Comments URL: <https://news.ycombinator.com/item?id=45871141>

...

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<https://www.construction-physics.com/p/how-the-uk-lost-its-shipbuilding>

Epigenetics in neurodegeneration: Emerging biomarkers and translational insights

 1 min  15 words 

Summary:

Publication date: 15 December 2025


Source: Brain Research, Volume 1869

Author(s): Hemraj Singh, Shaifali Gurjar, Rajeev Taliyan

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Neurocognitive basis of inter-subject variability in speech motor control: Interaction of bottom-up and top-down processes

 1
min

 13
words

BRAIN RESEARCH

Summary: <p>Publication date: 15 December 2025</p><p>Source: Brain Research, Volume 1869</p><p>Author(s): Xiao Cai, Qingfang Zhang</p>




Read full article:

https://www.sciencedirect.com/science/article/pii/S0006899325005736?dgcid=rss_sd_all

The synergy of methylphenidate- and reconsolidation-based extinction normalizes ventromedial prefrontal function in drug addiction

Ahmet O. CeceliSarah G. KingK. Rachel DruryNatalie McClainJohn GrayPriyanthi S.

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2025-11-04



1

min



47

words

PNAS NEUROSCIENCE


Summary: Proceedings of the National Academy of Sciences, Volume 122, Issue 45, November 2025.
SignificanceIn people with drug addiction, we report that the pharmacological enhancement of memory modulation normalized impairments in prefrontal cortex function in response to drug-associated cues, with ef...



Read full article:

<https://www.pnas.org/doi/abs/10.1073/pnas.2512310122?af=R>


Electromechanically induced membrane restructuring enables learning and memory

 Peter T. Podar^aDima Bolmatov^aTeshani Kumarage^aRana Ashkar^aAriana Adkisson^aOlivia Ziemer^aVictoria Sullivan^aAhmed S. Mohamed^aJoseph. S. Najem^cC. Patrick Collier^aJohn Katsarasa^aShull Wollan Center, Oak Ridge National Laboratory and University of Tennessee, Oak Ridge, TN 37830^bDepartment of Biomedical Engineering, Vanderbilt University, Nashville, TN 37235^cCarle Illinois College of Medicine, University of Illinois Urbana-Champaign, Urbana, IL 61801^dDepartment of Physics and Astronomy, Texas Tech University, Lubbock, TX 79409^eDepartment of Materials Science and Engineering, University of Illinois Urbana-Champaign, Urbana, IL 61801^fDepartment of Physics, Virginia Tech, Blacksburg, VA 24061^gCenter for Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA 24061^hDepartment of Chemistry, Louisiana State University, Baton Rouge, LA 70803ⁱDepartment of Physics and Astronomy, University of Tennessee, Chattanooga, TN 37403^jDepartment of Chemical and Biomolecular Engineering, University of Tennessee, Knoxville, TN 37996^kDepartment of Mechanical Engineering, Pennsylvania State University, University Park, PA 16802^lCenter for Nanophase Materials Sciences, Oak Ridge National Laboratory, Oak Ridge, TN 37830^mLabs and Soft Matter Group, Oak Ridge National Laboratory, Oak Ridge, TN 37830

 2025-11-04  1 min  49 words

PNAS NEUROSCIENCE

Summary: Proceedings of the National Academy of Sciences, Volume 122, Issue 45, November 2025.
 Significance Understanding the molecular mechanisms underlying learning and memory remains a central challenge in the treatment of dementia. Membrane plasticity, the ability of a membrane to adapt its structur...

 **Read full article:**

<https://www.pnas.org/doi/abs/10.1073/pnas.2510664122?af=R>

Revisiting the high-dimensional geometry of population responses in the visual cortex



Dean A. PospisilJonathan W. PillowaDepartment of Psychology, University of Illinois, Urbana-Champaign, IL 61820bPrinceton Neuroscience Institute, Princeton University, Princeton, NJ 08544



2025-11-05



1
min



47
words

PNAS NEUROSCIENCE

Summary: Proceedings of the National Academy of Sciences, Volume 122, Issue 45, November 2025.
SignificanceThe nervous system encodes the visual environment across millions of neurons. Such high-dimensional signals are difficult to estimate—and consequently to characterize. We address this challenge wi...



Read full article:

<https://www.pnas.org/doi/abs/10.1073/pnas.2506535122?af=R>

LHFPL5 is required for maximal activation of the mechanotransduction channel in cochlear hair cells

Xufeng QiuJose P. LlonguerasLili YinChristopher CunninghamUlrich MülleraThe Solomon H. Snyder



Department of Neuroscience, Johns Hopkins University School of Medicine, Baltimore, MD

21205bPittsburgh Hearing Research Center, Department of Otolaryngology, University of Pittsburgh, Pittsburgh, PA 15213



2025-11-04



1
min



52
words

PNAS NEUROSCIENCE

Summary: Proceedings of the National Academy of Sciences, Volume 122, Issue 45, November 2025.
SignificanceThe mechanotransduction complex of cochlear hair cells is an astonishing molecular machine consisting of the ion channel subunits TMC1/2, TMIE, and CIB2, the tetraspan LHFPL5, and the tip link pro...



Read full article:

<https://www.pnas.org/doi/abs/10.1073/pnas.2505627122?af=R>

Speech pattern disorders in verbally fluent individuals with autism spectrum disorder: a machine learning analysis



Xin
Li



2025-10-24



1
min



233
words

FRONTIERS NEUROINFORMATICS

Summary: IntroductionDiagnosing Autism Spectrum Disorder (ASD) in verbally fluent individuals based on speech patterns in examiner-patient dialogues is challenging because speech-related symptoms are often subtle and heterogeneous. This study aimed to identify distinctive speech characteristics associated wi...



Read full article:

<https://www.frontiersin.org/articles/10.3389/fninf.2025.1647194>

Neural heterogeneity as a unifying mechanism for efficient learning in spiking neural networks



Jingjing
Cui



2025-11-07



1
min



147
words

FRONTIERS COMPUTATIONAL NEUROSCIENCE

Summary: The brain is a highly diverse and heterogeneous network, yet the functional role of this neural heterogeneity remains largely unclear. Despite growing interest in neural heterogeneity, a comprehensive understanding of how it influences computation across different neural levels and learning methods ...



Read full article:

<https://www.frontiersin.org/articles/10.3389/fncom.2025.1661070>

Triboelectric nanogenerators for neural data interpretation: bridging multi-sensing interfaces with neuromorphic and deep learning paradigms



Bin
Jia



2025-11-07



1
min



189
words

FRONTIERS COMPUTATIONAL NEUROSCIENCE


Summary: The rapid growth of computational neuroscience and brain–computer interface (BCI) technologies require efficient, scalable, and biologically compatible approaches for neural data acquisition and interpretation. Traditional sensors and signal processing pipelines often struggle with the high dimensio...




Read full article:

<https://www.frontiersin.org/articles/10.3389/fncom.2025.1691017>

Approaches for retraining sEMG classifiers for upper-limb prostheses

 Benjamin Metcalfe

 2025-10-01  1 min

 178 words


FRONTIERS NEUROBOTICS

Summary: Introduction Abandonment rates for myoelectric upper limb prostheses can reach 44%, negatively affecting quality of life and increasing the risk of injury due to compensatory movements. Traditional myoelectric prostheses rely on conventional signal processing for the detection and classification of m...


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<https://www.frontiersin.org/articles/10.3389/fnbot.2025.1627872>

Oxidative stress-induced stress granules: a central link to protein aggregation in neurodegenerative diseases

 Inga Zerr

 2025-11-07  1 min

 233 words

FRONTIERS NEUROSCIENCE

Summary: Intracellular aggregation of proteins such as Tau, TDP43, FUS, prion protein, and α -synuclein is a major hallmark of many major neurodegenerative diseases. Aberrant stress granules (SGs) are emerging as key contributors to the nucleation of toxic protein aggregates in these disorders. SGs are dynami...

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<https://www.frontiersin.org/articles/10.3389/fnins.2025.1686571>

Revealing cerebrospinal fluid biomarkers in Parkinson's disease dementia based on iTRAQ proteomics research

LiFen
Chen

2025-11-07

1
min

236
words

FRONTIERS NEUROSCIENCE

Summary: BackgroundParkinson's disease dementia (PDD) imposes a significant burden on patients and healthcare systems but currently lacks specific biomarkers. This study aimed to identify novel cerebrospinal fluid (CSF) biomarkers for PDD using proteomics and to explore their functional significance.MethodsE...

 Read full article:

<https://www.frontiersin.org/articles/10.3389/fnins.2025.1682274>

The impact of CSF-filled cavities on scalp EEG and its implications

Maria Carla
Piastra

2024-06-14

1
min

64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...

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Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research

 Julius
Welzel

 17

2024-07-02

 1
min

 72
words

OOSTENVELD ROBERT


Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...

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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-
Sosa


 17

2024-08-22

 1
min

 2
words

OOSTENVELD ROBERT

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Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity



Richard J A van
Wezel



2024-09-04



1
min



65
words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...



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The past, present, and future of the brain imaging data structure (BIDS)



Krzysztof J
Gorgolewski



2024-09-23



1
min



82
words

OOSTENVELD ROBERT

Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...



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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

Fanny
Quandt

17 2025-01-09

1
min

65
words

OOSTENVELD ROBERT

Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...

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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

Luca
Pollonini

17 2025-01-27

1
min

70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...



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
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Pseudonymisation of neuroimages and data protection: **Increasing access to data while retaining scientific utility**

 Lyuba
Zehl

 2025-06-26  1
min

 67
words

OOSTENVELD ROBERT

Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...



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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13  1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld


 17 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT

Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...


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Microglial Necroptosis Mediated by RIPK3 Leads to Retinal Ganglion Cell Apoptosis Through the Release of FGF2 After Ischemia/Reperfusion

 Aimin
Sang

 17 2025-11-06

 1
min

 68
words

LOW VISION


Summary: The aim of this study was to explore the function of receptor-interacting protein kinase 3 (RIPK3) on retinal neuron damage induced by retinal ischemia/reperfusion (IR). Microglia-specific RIPK3 knockout (KO) mice were employed to establish retinal IR models. Retinal structural and functional status...

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Retinal Vasculitis as an Initial Presentation of Atypical Neurosarcoidosis With Occult Central Nervous System Inflammation

 Albert S
Li



2025-11-07



1
min



66
words

LOW VISION

Summary: Purpose: To describe a case of retinal vasculitis as a presenting sign of atypical neurosarcoidosis with occult central nervous system involvement. Methods: A case report and literature review are presented, highlighting the role of the ophthalmic examination and the importance of early neurologic w...



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BMR-YOLO: A deep learning approach for fall detection in complex environments

 Ping
Lan



2025-11-07



1
min



61
words

LOW VISION

Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...



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Object recognition from sparse simulated phosphenes and curved segments



Michael H
Herzog



2025-11-07



1
min



71
words

LOW VISION

Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...



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A 2D-digital spectral sensing method for rapid antibiotic detection in water



Xin
Zhang



2025-11-07



1
min



74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...



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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia

 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...


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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07

 1
min

 65
words

LOW VISION

Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...

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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study



Paula Fávoro
Polastri



2025-11-07



1
min



71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...



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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model



Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...






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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION




Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...

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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas Hummel

 2025-05-28  1 min  70 words


TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...

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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki Kajimoto

 2025-06-17  1 min  75 words

TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...

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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent

 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...



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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 17 2025-08-01  1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...



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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain

 Eric
Fjeldheim

 17 2025-08-24  1
min

 22
words

TACTILE ACUITY

Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.

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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study



Paula Anne Newman-
Casey



2025-09-09



1
min



74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...



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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...





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The coarse mental map of the breast is anchored on the nipple

 Charles M
Greenspon

 2025-09-18  1
min

 86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words

TACTILE ACUITY

Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...

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Wireless Electrotactile System with Hydrogel-Based Electrodes for Conformal Tactile Interaction

Ji
Liu

2025-09-02

 1
min

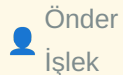
 56
words

[BRAILLE](#)

Summary: A wireless epidermal electrotactile interface is demonstrated through integration of skin-conformal electrodes and flexible circuitry, addressing existing limitations in haptic technology caused by mechanical mismatch and system-level integration challenges. This electrotactile system achieves low s...


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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=165yO28ehHLjXJb8W3JvTx2bYozdDe8IvyFRBIOfHZxFR8o1uX&fc=None&ff=20251109204339&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/40891563/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=165yO28ehHLjXJb8W3JvTx2bYozdDe8IvyFRBIOfHZxFR8o1uX&fc=None&ff=20251109204339&v=2.18.0.post22+67771e2)

Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

Önder
İşlek

2025-09-12

 1
min


 55
words



[BRAILLE](#)


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...


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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=165yO28ehHLjXJb8W3JvTx2bYozdDe8IvyFRBIOfHZxFR8o1uX&fc=None&ff=20251109204339&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/40937808/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=165yO28ehHLjXJb8W3JvTx2bYozdDe8IvyFRBIOfHZxFR8o1uX&fc=None&ff=20251109204339&v=2.18.0.post22+67771e2)

High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words


BRAILLE


Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh

 2025-10-03

 1 min

 73 words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...


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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille

Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions



Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study



Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...



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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17

2025-11-01



1

min



35

words

BRAILLE

Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.





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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05

 1
min

 63
words

BRAILLE


Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...


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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07

 1
min

 51
words

BRAILLE

Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Non-invasive neuromodulation for the treatment of drug-resistant epilepsy: Protocol for a systematic review and meta-analysis investigating efficacy, safety, and optimal stimulation parameters

 Hugh D
Simpson

 2025-11-06  1
min

 63
words

TDCS TACS TRNS

Summary: BACKGROUND: Non-invasive neuromodulation presents as an exciting potential adjunctive therapy for people with drug-resistant epilepsy (DRE). A major advantage of this approach is the absence of the neurocognitive and systemic adverse events commonly associated with anti-seizure medications (ASM), an...

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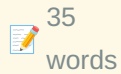
Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice



Yu

Fu

2025-11-06



TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.



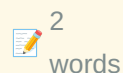
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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?

André Russowsky
Brunoni

2025-11-06



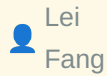
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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis



Lei

Fang



2025-11-07



1

min



38

words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.



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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke



Gabriela

Castellano



2025-11-07



1

min



63

words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...



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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS

Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.



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
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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...

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Exploring the Mechanism of Transcranial Direct Current Stimulation Combined with Aerobic Exercise in Improving Working Memory of Post-Stroke Patients with Cognitive Dysfunction: An Event-Related Potentials Study

 Yingying
Ji

 17

2025-11-08



1
min



37
words

TDCS TACS TRNS

Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.



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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

Wen
Wu

2025-11-03

1
min

36
words

FNIRS

Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

Min-Seong
Ha

2025-11-03

1
min

56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...


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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao


 2025-11-03

 1
min

 75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...

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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu



2025-11-03



1

min



68

words

fNIRS

Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...






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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS


Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...


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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fN...


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
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Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 17 2025-11-07

 1
min

 58
words

FNIRS


Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...

 **Read full article:**

[https://pubmed.ncbi.nlm.nih.gov/41201655/?](https://pubmed.ncbi.nlm.nih.gov/41201655/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109204333&v=2.18.0.post22+67771e2)

[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109204333&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41201655/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109204333&v=2.18.0.post22+67771e2)

SFT-HN: a novel spatial-frequency-temporal hybrid network for EEG-based emotion recognition

 Jianhai
Zhang

 17 2025-11-07

 1
min

 72
words

BRAIN COMPUTER INTERFACE

Summary: Electroencephalograph (EEG) emotion recognition is a key task in the brain-computer interface(BCI) field. A mounting quantity of studies have shown that deep learning methods for emotion recognition exhibit superior performance compared to traditional techniques. However, it is still challenging to ...


 **Read full article:**

[https://pubmed.ncbi.nlm.nih.gov/41199757/?](https://pubmed.ncbi.nlm.nih.gov/41199757/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0lVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2)

[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0lVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41199757/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0lVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2)

A dual-branch neural network and attention mechanism for decoding EEG-based motor imagery

 Chunfang
Wang


 2025-11-07

 1
min

 66
words

BRAIN COMPUTER INTERFACE

Summary: Motor imagery (MI) is a fundamental paradigm in brain-computer interfaces (BCIs), extensively employed to assist individuals with disabilities to operate external devices. Accurate decoding of MI signals is essential for effective interaction. However, robust decoding remains a challenge due to the ...


 Read full article:

<https://pubmed.ncbi.nlm.nih.gov/41199758/?>


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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan

 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

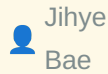
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

 Read full article:

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye

Bae



2025-11-07

1
min69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...



Read full article:

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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41203630/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2)

Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina

Simonyan



2025-11-08

1
min38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...



Read full article:


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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41204680/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2)

NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler

 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


 Read full article:

<https://pubmed.ncbi.nlm.nih.gov/41204711/?>


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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu

 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


 Read full article:

<https://pubmed.ncbi.nlm.nih.gov/41205408/?>


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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng


 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

 Read full article:


[https://pubmed.ncbi.nlm.nih.gov/41205562/?](https://pubmed.ncbi.nlm.nih.gov/41205562/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2)

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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41205562/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2)

On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


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[tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41205898/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0IVBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2)

Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauch-Rodríguez



2025-11-09



1
min



69
words

BRAIN COMPUTER INTERFACE

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...



Read full article:

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[tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41206890/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109204331&v=2.18.0.post22+67771e2)

Gonadectomy maintains goal-directed responding in female rats and accelerates habit formation in male rats.



2025-04-07



1
min



271
words

BEHAVIORAL NEUROSCIENCE




Summary: We have previously demonstrated that gonadally intact female rats become habitual following around 120 response–outcome (R-Os) exposures during operant training. This rapid development of habit does not occur in gonadally intact male rats, which remain goal-directed up to at least 320 R-Os. The pres...



Read full article:

<http://doi.org/10.1037/bne0000622>

Monthly Updates [November]

 2025-11-01  4 min  931 words

[FMHY](#)





Summary:

INFO

These update threads only contains major updates. If you're interested in seeing all minor changes you can follow our [Commits Page](https://github.com/fmhy/FMHYedit/commits/main) on ...

 **Read full article:**
<https://fmhy.net/posts/Nov-2025>

Monday Daily Thread: Project ideas!

 /u/
AutoModerator  2025-11-10  1 min  244 words

[REDDIT PYTHON](#)

Summary:

Weekly Thread: Project Ideas




Welcome to our weekly Project Ideas thread! Whether you're a newbie looking for a first project or an expert seeking a new challenge, this is the place for you.

How it Works:

- Suggest a Project**

 **Read full article:**
https://www.reddit.com/r/Python/comments/1osyz5r/monday_daily_thread_project_ideas/

Drilling down on Uncle Sam's proposed TP-Link ban

 2025-11-09  1 min  2 words

HACKER NEWS




Summary: [Comments](https://news.ycombinator.com/item?id=45867717)



Read full article:

<https://krebsonsecurity.com/2025/11/drilling-down-on-uncle-sams-proposed-tp-link-ban/>

Iran faces unprecedented drought as water crisis hits Tehran

 2025-11-10  1 min  2 words

HACKER NEWS




Summary: [Comments](https://news.ycombinator.com/item?id=45871043)



Read full article:

<https://www.bbc.com/news/articles/cy4p2yzmem0o>

My Git history was a mess of 'update' and 'fix' – so I made AI clean it up




 2025-11-10  1 min  2 words

HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45871084)

 **Read full article:**
<https://github.com/f/git-rewrite-commits>

How to maintain good vision amidst the myopia epidemic




 2025-11-10  1 min  2 words

HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45871107)

 **Read full article:**
<https://ssathe.substack.com/p/vision-in-the-digital-age>

Work After Work: Notes from an Unemployed New Grad Watching the Job Market Break

 2025-11-10  1 min  2 words





HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45870863)

 Read full article:

<https://urlahmed.com/2025/11/05/work-after-work-notes-from-an-unemployed-new-grad-watching-the-job-market-break/>

If You're Not Active, You're Sick – You Just Don't Know It Yet

 rzk  2025-11-09  1 min  13 words

HACKER NEWS

Summary:

Article URL: <https://howardluksmd.substack.com/p/if-youre-not-active-youre-sick-you>

Comments URL: <https://news.ycombinator.com/item?id=45869587>

 Read full article:

<https://howardluksmd.substack.com/p/if-youre-not-active-youre-sick-you>

Sued by Nintendo

 notepad0x90  2025-11-10  1 min  13 words

HACKER NEWS

Summary:

Article URL: <https://www.suedbynintendo.com/>





Comments URL: <https://news.ycombinator.com/item?id=45870675>

Points: 33

Comments: 4

 Read full article:
<https://www.suedbynintendo.com/>

Work After Work: Notes from an Unemployed New Grad Watching the Job Market Break


 linkregister  2025-11-10  1 min  13 words

HACKER NEWS

Summary:

Article URL: <https://urlahmed.com/2025/11/05/work-after-work-notes-from-an-unemployed-new-grad-watching-the-job-market-break/>

Comments URL: <https://news.y...>

 Read full article:
<https://urlahmed.com/2025/11/05/work-after-work-notes-from-an-unemployed-new-grad-watching-the-job-market-break/>

Show HN: DroidDock – A sleek macOS app for browsing Android device files via ADB



rajivm1991



2025-11-10

1
min143
words

HACKER NEWS

Summary: <p>Hi HN,<p>I'm Rajiv, a software engineer turned Math teacher living in the mountains, where I like to slow down life while still building useful software.<p>I recently built DroidDock, a lightweight and modern macOS desktop app that lets you browse and manage files on your Android device via ADB. ...



Read full article:

<https://rajivm1991.github.io/DroidDock/>

Iran faces unprecedented drought as water crisis hits Tehran



FridayoLeary



2025-11-10

1
min13
words

HACKER NEWS

Summary: <p>Article URL: https://www.bbc.com/news/articles/cy4p2yzmem0o</p>
<p>Comments URL: https://news.ycombinator.com/item?id=45871043</p> <p>Points: 4</p> <p># Comments: 1</p>



Read full article:

<https://www.bbc.com/news/articles/cy4p2yzmem0o>

My Git history was a mess of 'update' and 'fix' – so I made AI clean it up



fka



2025-11-10



1
min



13
words

HACKER NEWS

Summary:

Article URL: <https://github.com/f/git-rewrite-commits>

Comments URL: <https://news.ycombinator.com/item?id=45871084>

Points: 5

Comments: 0



Read full article:

<https://github.com/f/git-rewrite-commits>

How to maintain good vision amidst the myopia epidemic



plun9



2025-11-10



1
min



13
words

HACKER NEWS

Summary:

Article URL: <https://ssathe.substack.com/p/vision-in-the-digital-age>

Comments URL: <https://news.ycombinator.com/item?id=45871107>

Points: 8


Comme...




Read full article:

<https://ssathe.substack.com/p/vision-in-the-digital-age>

Important Changes to the 2024 ERP Boot Camp

 Steve
Luck

 2024-03-05

 2
min

 444
words

ERP BOOT CAMP

Summary:

We are disappointed to announce that we will not be holding a regular 10-day ERP Boot Camp this summer.

We have held Boot Camps nearly every summer since 2007, supported by a series of generous grants from NIMH that allowed us to provide scholarships for all attendees. Unf...

 Read full article:

<https://erpinfo.org/blog/2024/3/5/changes-to-the-2024-erp-boot-camp>

Cav3.2 channels modulate allodynia but TRP channels are the primary mediators in prenatal valproic acid-induced sensory dysfunction

 1
min

 21
words

NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025

Source: Neuroscience, Volume 590


Author(s): Flavia T.T. Antunes, Maria A. Gandini, Sun Huang, Lina Chen, Gerald W. Zamponi

 Read full article:

https://www.sciencedirect.com/science/article/pii/S0306452225010589?dgcid=rss_sd_all

Comprehensive analysis of the prognostic value and immune infiltration of Uridine Monophosphate Synthetase (UMPS) in Pan-Glioma

 1
min

 28
words

NEUROSCIENCE JOURNAL

Summary:

Publication date: 5 December 2025

Source: Neuroscience, Volume 590

Author(s): Dong He, Xiaokun Jiang, Jinfeng Ma, Jinyan Chen, Yongfei Zhang, Xixi Dou, Qingwen Jia, Qian Liu, Ping Xie, Zhen Zhang




Read full article:

https://www.sciencedirect.com/science/article/pii/S0306452225009868?dgcid=rss_sd_all

Linking dielectric dispersion and age in brain tissues via water content-based Electric Properties Tomography

 1
min

 22
words

NEUROIMAGE

Summary:

Publication date: 15 November 2025

Source: NeuroImage, Volume 322

Author(s): Sébastien Marmin, Alessandro Arduino, Matteo Cencini, Marta Lancione, Laura Biagi, Michela Tosetti, Luca Zilberti




Read full article:

https://www.sciencedirect.com/science/article/pii/S1053811925005622?dgcid=rss_sd_all

Corticospinal motoneuronal synaptic plasticity induction can modulate the speed of learning ballistic finger movements: Possible use in rehabilitation

 1
min

 22
words

NEUROIMAGE

Summary: <p>Publication date: 15 November 2025</p><p>Source: Neurolmage, Volume 322</p><p>Author(s): Akira Yamashita, Takenobu Murakami, Shunsuke Kobayashi, Noriaki Hattori, Ichiro Miyai, Ritsuko Hanajima, Yoshikazu Ugawa</p>




Read full article:

https://www.sciencedirect.com/science/article/pii/S1053811925005634?dgcid=rss_sd_all

Olfactory sensation emotion regulation: The implicit emotion regulation function of positive olfactory stimuli during emotional picture processing

 1
min

 32
words

NEUROIMAGE

Summary: <p>Publication date: 15 November 2025</p><p>Source: Neurolmage, Volume 322</p><p>Author(s): Jiaotao Cai, Xinran Wang, Jiayi Zhou, Ye di, Ziruo Shen, Shuo An, Bingyang Long, Yicheng Wang, Zitong Li, Yiting Li, Si Chen, Yanmei Wang</p>




Read full article:

https://www.sciencedirect.com/science/article/pii/S1053811925005725?dgcid=rss_sd_all

Local modulation of sleep slow waves depends on timing between auditory stimuli

 1
min

 32
words

NEUROIMAGE

Summary:

Publication date: 15 November 2025

Source: NeuroImage, Volume 322


Author(s): Sven Leach, Sara Fattinger, Elena Krugliakova, Jelena Skorucak, Georgia Sousouri, Sophia Snipes, Selina Schühle, Maria Laura Ferster, Giulia Da Poian, Walter Karlen, Reto Huber

 Read full article:

https://www.sciencedirect.com/science/article/pii/S1053811925005646?dgcid=rss_sd_all

The hidden gut–brain connection in tinnitus: Insight from a cross-sectional and genetic causal mediation study in over 900,000 individuals

 1
min

 26
words


NEUROIMAGE

Summary:

Publication date: 15 November 2025

Source: NeuroImage, Volume 322


Author(s): Chanmei Fang, Liling Lin, Wan Chen, Qianhui Xu, Zhaopeng Tong, Shan Sun, Yu-Chen Chen, Maojin Liang, Yuexin Cai

 Read full article:

https://www.sciencedirect.com/science/article/pii/S1053811925005683?dgcid=rss_sd_all

Source-level performance of triaxial and uniaxial-radial OPM-MEG

 1
min

 24
words

NEUROIMAGE

Summary:

Publication date: 15 November 2025

Source: Neurolmage, Volume 322


Author(s): Wen Li, Nan An, Zhenfeng Gao, Junjian Tang, Jianzhi Yang, Xin Ma, Min Xiang, Fuzhi Cao

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Atlas-independent brain connectome analysis at voxel-level granularity: graph convolutional networks for etiology classification in newborns

 1
min

 32
words

NEUROIMAGE

Summary:

Publication date: 15 November 2025

Source: Neurolmage, Volume 322

Author(s): Anna Speckert, Lukas Gianinazzi, Sepp Kollmorgen, Cornelia Hagmann, Patrice Grehten, Raimund Kottke, Giancarlo Natalucci, Beatrice Latal, Walter Knirsch, Ruth Tuura, Torsten Hoefler, Andras Jakab

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The impact of CSF-filled cavities on scalp EEG and its implications



Maria Carla
Piastra



2024-06-14



1
min



64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...



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[hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109183853&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/38873838/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109183853&v=2.18.0.post22+67771e2)

Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research



Julius
Welzel



2024-07-02



1
min



72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...




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One hundred years of EEG for brain and behaviour research

 Pedro Valdes-Sosa

 2024-08-22  1 min

 2 words

OOSTENVELD ROBERT



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Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity


 Richard J A van Wezel

 2024-09-04  1 min

 65 words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...


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The past, present, and future of the brain imaging data structure (BIDS)

 Krzysztof J
Gorgolewski

 2024-09-23

 1
min

 82
words

OOSTENVELD ROBERT


Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...


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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

 Fanny
Quandt

 2025-01-09

 1
min

 65
words

OOSTENVELD ROBERT


Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...


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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

 Luca
Pollonini

 17 2025-01-27

 1
min

 70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


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Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility

 Lyuba
Zehl

 17 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT


Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT

Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...


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Microglial Necroptosis Mediated by RIPK3 Leads to Retinal Ganglion Cell Apoptosis Through the Release of FGF2 After Ischemia/Reperfusion

 Aimin
Sang

 17 2025-11-06  1
min

 68
words

LOW VISION

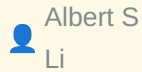
Summary: The aim of this study was to explore the function of receptor-interacting protein kinase 3 (RIPK3) on retinal neuron damage induced by retinal ischemia/reperfusion (IR). Microglia-specific RIPK3 knockout (KO) mice were employed to establish retinal IR models. Retinal structural and functional status...

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Retinal Vasculitis as an Initial Presentation of Atypical Neurosarcoidosis With Occult Central Nervous System Inflammation



Albert S

Li



2025-11-07



1

min



66

words

LOW VISION

Summary: Purpose: To describe a case of retinal vasculitis as a presenting sign of atypical neurosarcoidosis with occult central nervous system involvement. Methods: A case report and literature review are presented, highlighting the role of the ophthalmic examination and the importance of early neurologic w...



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BMR-YOLO: A deep learning approach for fall detection in complex environments



Ping

Lan



2025-11-07



1

min



61

words

LOW VISION


Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...




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Object recognition from sparse simulated phosphenes and curved segments

 Michael H
Herzog

 2025-11-07

 1
min

 71
words

LOW VISION


Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...


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A 2D-digital spectral sensing method for rapid antibiotic detection in water

 Xin
Zhang

 2025-11-07

 1
min

 74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...


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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia

 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...


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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07

 1
min

 65
words

LOW VISION

Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...

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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study



Paula Fávoro
Polastri



2025-11-07



1
min



71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...



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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model



Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...






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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION

Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...

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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas Hummel

 2025-05-28  1 min  70 words


TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...

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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki Kajimoto

 2025-06-17  1 min  75 words


TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...

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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent


 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...



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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 2025-08-01  1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...



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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain

 Eric
Fjeldheim

 2025-08-24  1
min

 22
words

TACTILE ACUITY

Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.

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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study



Paula Anne Newman-
Casey



2025-09-09



1
min



74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...



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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...



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The coarse mental map of the breast is anchored on the nipple



Charles M
Greenspon



2025-09-18



1
min



86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights



Runar
Unnthorsson



2025-09-27



1
min



65
words

TACTILE ACUITY

Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...



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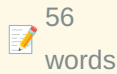
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Wireless Electrotactile System with Hydrogel-Based Electrodes for Conformal Tactile Interaction

Ji
Liu

2025-09-02

1
min56
words

BRAILLE

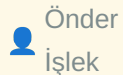
Summary: A wireless epidermal electrotactile interface is demonstrated through integration of skin-conformal electrodes and flexible circuitry, addressing existing limitations in haptic technology caused by mechanical mismatch and system-level integration challenges. This electrotactile system achieves low s...



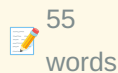
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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

Önder
İşlek

2025-09-12

1
min55
words

BRAILLE


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...






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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words


BRAILLE


Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh

 2025-10-03

 1 min

 73 words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...


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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille


Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...


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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions

 Robert P
Socha

 2025-10-29

 1
min

 73
words

BRAILLE


Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...


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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study

 Yasir Ayed
Alsamiri

 2025-10-31

 1
min

 64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...

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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17

2025-11-01



1

min



35

words

BRAILLE

Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.







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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 2025-11-05  1 min  63 words


BRAILLE

Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...

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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 2025-11-07  1 min  51 words

BRAILLE



Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...


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Non-invasive neuromodulation for the treatment of drug-resistant epilepsy: Protocol for a systematic review and meta-analysis investigating efficacy, safety, and optimal stimulation parameters

 Hugh D
Simpson

 2025-11-06  1
min

 63
words

TDCS TACS TRNS

Summary: BACKGROUND: Non-invasive neuromodulation presents as an exciting potential adjunctive therapy for people with drug-resistant epilepsy (DRE). A major advantage of this approach is the absence of the neurocognitive and systemic adverse events commonly associated with anti-seizure medications (ASM), an...

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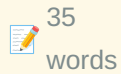
Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice



Yu

Fu

2025-11-06



TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.



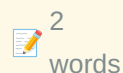
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[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=143rKCPgMwbasrj66gQ1r1ebioUg42SIGRyVKSoW4m6X-ecQ00&fc=None&ff=20251109183842&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41199404/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=143rKCPgMwbasrj66gQ1r1ebioUg42SIGRyVKSoW4m6X-ecQ00&fc=None&ff=20251109183842&v=2.18.0.post22+67771e2)

Is transcranial direct current stimulation a viable treatment option for fibromyalgia?

André Russowsky
Brunoni

2025-11-06



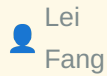
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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis



Lei

Fang



2025-11-07



1

min



38

words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.



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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke



Gabriela

Castellano



2025-11-07



1

min



63

words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...



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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS


Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.



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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...

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Exploring the Mechanism of Transcranial Direct Current Stimulation Combined with Aerobic Exercise in Improving Working Memory of Post-Stroke Patients with Cognitive Dysfunction: An Event-Related Potentials Study

 Yingying
Ji


 2025-11-08

 1
min

 37
words

TDCS TACS TRNS

Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.

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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

Wen
Wu

2025-11-03

1
min

36
words

FNIRS

Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

Min-Seong
Ha

2025-11-03

1
min

56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...

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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao

 17

2025-11-03



1
min



75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...

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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu



2025-11-03



1
min



68
words

fNIRS

Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...






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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...



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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fNIRS).


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
[utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109183838&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41196800/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1JKSd2KF3MGnV7oFVD2g6PNu7rHRFDsLyCNjKkkf4KHBUA3c8P&fc=None&ff=20251109183838&v=2.18.0.post22+67771e2)

Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 2025-11-07

 1
min

 58
words

FNIRS


Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...


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SFT-HN: a novel spatial-frequency-temporal hybrid network for EEG-based emotion recognition

 Jianhai
Zhang

 2025-11-07

 1
min

 72
words

BRAIN COMPUTER INTERFACE

Summary: Electroencephalograph (EEG) emotion recognition is a key task in the brain-computer interface(BCI) field. A mounting quantity of studies have shown that deep learning methods for emotion recognition exhibit superior performance compared to traditional techniques. However, it is still challenging to ...


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A dual-branch neural network and attention mechanism for decoding EEG-based motor imagery

 Chunfang
Wang


 2025-11-07

 1
min

 66
words

BRAIN COMPUTER INTERFACE

Summary: Motor imagery (MI) is a fundamental paradigm in brain-computer interfaces (BCIs), extensively employed to assist individuals with disabilities to operate external devices. Accurate decoding of MI signals is essential for effective interaction. However, robust decoding remains a challenge due to the ...


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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

 Feng
Wan

 2025-11-07

 1
min

 55
words

BRAIN COMPUTER INTERFACE

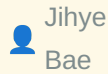
Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces



Jihye
Bae

2025-11-07

1
min

69
words

BRAIN COMPUTER INTERFACE

Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...

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Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study



Kristina
Simonyan

2025-11-08

1
min

38
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...


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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler


 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...


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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

 Jun
Liu

 2025-11-08

 1
min

 32
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.


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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

 Yining
Zeng

 2025-11-08

 1
min

 30
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.

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On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08

 1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...


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Effect of Polyurethane Structure on the Physicochemical, Mechanical, and Biological Properties on their Copper Complexes Composites

 Juan Valerio Cauch-Rodríguez



2025-11-09



1 min



69 words

BRAIN COMPUTER INTERFACE

Summary: Polyurethanes and their composites are versatile materials widely used in numerous medical applications. However, limited information is available regarding their copper composites. Copper is a trace element in the human body that functions as an enzyme cofactor in both normal and pathological angio...


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[tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109183835&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/41206890/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1rSUu--tbw4049Wgf_RdKXdtNCvGW0VBZFpHe7zaN4k4DwoD5&fc=None&ff=20251109183835&v=2.18.0.post22+67771e2)

PyCalc Pro v2.0.2 - A Math and Physics Engine With Optional GPU Acceleration For AI Integration

 /u/
lw_x_dev



2025-11-09



1 min



192 words




REDDIT PYTHON

Summary: <!-- SC_OFF --><div class="md"><p>PyCalc Pro has now evolved from just being your average CLI-Python Calculator to a fast and safe engine for AI integration. This engine supports both mathematical and physics functions combining NumPy, Numba, SciPy, CuPy, and a C++ core</str...

 Read full article:

https://www.reddit.com/r/Python/comments/1osh41c/pycalc_pro_v202_a_math_and_physics_engine_with/

The Symbiosis of Rust and Arm: A Conversation with David Wood

 2025-11-03  1 min  2 words

HACKER NEWS

Summary: [Comments](https://news.ycombinator.com/item?id=45798154)

 Read full article:
<https://filtra.io/rust/interviews/arm-sep-25>

Breaking down the ear-brain dichotomy: the effects of age-related hearing loss on the cortical language system

 1 min  16 words

NEUROIMAGE

Summary:

Publication date: 15 November 2025

Source: NeuroImage, Volume 322

Author(s): Stefan Elmer, Vanessa Frei, Julian Ockelmann, Nathalie Giroud

 Read full article:
https://www.sciencedirect.com/science/article/pii/S105381192500566X?dgcid=rss_sd_all

The Bone Morphogenetic Pathway Controls the Uptake of Infectious Prions



De Cecco, E., Mariutti, G., Oueslati Morales, C. O., Caredio, D., Erana, H., Appleton, C., Sellitto, S., Hornemann, S., Scialo, C., Yin, J.-A., Vidal, E., Polymenidou, M., Castilla, J., Aguzzi, A.



2025-11-08



1
min



212
words

BIORXIV NEUROSCIENCE

Summary: Prion diseases are transmissible neurodegenerative disorders caused by the spread of misfolded prion protein between cells and individuals, yet the paths by which prions colonize cells are undefined. Here we map the determinants of prion uptake with a genome-wide quadruple-guide CRISPR activation sc...



Read full article:

<https://www.biorxiv.org/content/10.1101/2025.11.08.687161v1?rss=1>

Dopamine neuron firing can reflect behavioral exertion



Luis A.
Mejia



2025-11-04



1
min



15
words

NATURE NEUROSCIENCE


Summary: <p>Nature Neuroscience, Published online: 04 November 2025; doi:10.1038/s41593-025-02121-y</p>Dopamine neuron firing can reflect behavioral exertion



Read full article:

<https://www.nature.com/articles/s41593-025-02121-y>

Fast readers think ahead

 Henrietta
Howells



2025-11-04



1
min



12
words

NATURE NEUROSCIENCE


Summary: <p>Nature Neuroscience, Published online: 04 November 2025; doi:10.1038/s41593-025-02120-z</p>Fast readers think ahead



Read full article:

<https://www.nature.com/articles/s41593-025-02120-z>

Autoimmune target in ALS

 Rebecca
Wright



2025-11-04



1
min



12
words

NATURE NEUROSCIENCE

Summary: <p>Nature Neuroscience, Published online: 04 November 2025; doi:10.1038/s41593-025-02122-x</p>Autoimmune target in ALS



Read full article:

<https://www.nature.com/articles/s41593-025-02122-x>

Multiscale intracranial EEG dynamics across sleep–wake states: toward memory-related processing



Marcelo J. F.
Arlego



2025-10-24



1
min



169
words

FRONTIERS COMPUTATIONAL NEUROSCIENCE

Summary: Sleep is known to support memory consolidation through a complex interplay of neural dynamics across multiple timescales. Using intracranial EEG (iEEG) recordings from patients undergoing clinical monitoring, we characterize spectral activity, neuronal avalanche dynamics, and temporal correlations a...



Read full article:

<https://www.frontiersin.org/articles/10.3389/fncom.2025.1618191>

Interleaving cortex-analog mixing improves deep non-negative matrix factorization networks



Klaus R.
Pawelzik



2025-11-05



1
min



129
words

FRONTIERS COMPUTATIONAL NEUROSCIENCE

Summary: Considering biological constraints in artificial neural networks has led to dramatic improvements in performance. Nevertheless, to date, the positivity of long-range signals in the cortex has not been shown to yield improvements. While Non-negative matrix factorization (NMF) captures biological cons...



Read full article:

<https://www.frontiersin.org/articles/10.3389/fncom.2025.1692418>

The impact of CSF-filled cavities on scalp EEG and its implications



Maria Carla
Piastra



2024-06-14



1
min



64
words

OOSTENVELD ROBERT

Summary: Previous studies have found electroencephalogram (EEG) amplitude and scalp topography differences between neurotypical and neurological/neurosurgical groups, being interpreted at the cognitive level. However, these comparisons are invariably accompanied by anatomical changes. Critical to EEG are the...



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[hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109181753&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/38873838/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109181753&v=2.18.0.post22+67771e2)

Motion-BIDS: an extension to the brain imaging data structure to organize motion data for reproducible research



Julius
Welzel



2024-07-02



1
min



72
words

OOSTENVELD ROBERT

Summary: We present an extension to the Brain Imaging Data Structure (BIDS) for motion data. Motion data is frequently recorded alongside human brain imaging and electrophysiological data. The goal of Motion-BIDS is to make motion data interoperable across different laboratories and with other data modalities...




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[hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109181753&v=2.18.0.post22+67771e2](https://pubmed.ncbi.nlm.nih.gov/38956071/?utm_source=BucketBot&utm_medium=rss&utm_campaign=None&utm_content=1BUB2BG5RbxOblm-hBbiJWEhGG43qIVrvGNHOTqBKva9wWrltM&fc=None&ff=20251109181753&v=2.18.0.post22+67771e2)


One hundred years of EEG for brain and behaviour research

 Pedro Valdes-Sosa

 2024-08-22  1 min

 2 words


OOSTENVELD ROBERT



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Freezing of gait in Parkinson's disease is related to imbalanced stopping-related cortical activity


 Richard J A van Wezel

 2024-09-04  1 min

 65 words

OOSTENVELD ROBERT

Summary: Freezing of gait, characterized by involuntary interruptions of walking, is a debilitating motor symptom of Parkinson's disease that restricts people's autonomy. Previous brain imaging studies investigating the mechanisms underlying freezing were restricted to scan people in supine positions and yie...


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The past, present, and future of the brain imaging data structure (BIDS)

 Krzysztof J
Gorgolewski

 2024-09-23

 1
min

 82
words

OOSTENVELD ROBERT


Summary: The Brain Imaging Data Structure (BIDS) is a community-driven standard for the organization of data and metadata from a growing range of neuroscience modalities. This paper is meant as a history of how the standard has developed and grown over time. We outline the principles behind the project, the ...


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Human cortical high-gamma power scales with movement rate in healthy participants and stroke survivors

 Fanny
Quandt

 2025-01-09

 1
min

 65
words

OOSTENVELD ROBERT


Summary: Motor cortical high-gamma oscillations (60-90 Hz) occur at movement onset and are spatially focused over the contralateral primary motor cortex. Although high-gamma oscillations are widely recognized for their significance in human motor control, their precise function on a cortical level remains el...


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NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy

 Luca
Pollonini


 17 2025-01-27

 1
min

 70
words

OOSTENVELD ROBERT


Summary: Functional near-infrared spectroscopy (fNIRS) is an increasingly popular neuroimaging technique that measures cortical hemodynamic activity in a non-invasive and portable fashion. Although the fNIRS community has been successful in disseminating open-source processing tools and a standard file forma...


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Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility

 Lyuba
Zehl

 17 2025-06-26

 1
min

 67
words

OOSTENVELD ROBERT


Summary: For a number of years, facial features removal techniques such as 'defacing', 'skull stripping' and 'face masking/blurring', were considered adequate privacy preserving tools to openly share brain images. Scientifically, these measures were already a compromise between data protection requirements a...


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Cycling on the Freeway: The perilous state of open-source neuroscience software

 Tim M
Tierney

 2025-08-13

 1
min

 74
words

OOSTENVELD ROBERT


Summary: Most scientists need software to perform their research (Barker et al., 2020;Carver et al., 2022;Hettrick, 2014;Hettrick et al., 2014;Switters & Osimo, 2019), and neuroscientists are no exception. Whether we work with reaction times, electrophysiological signals, or magnetic resonance imaging data, ...


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Optimal configuration of on-scalp OPMs with fixed channel counts

 Robert
Oostenveld

 2025-08-13

 1
min

 69
words

OOSTENVELD ROBERT

Summary: Recent technological developments have brought optically pumped magnetometers (OPMs) within reach of the larger neuroscientific community. The current state-of-the-art consists of whole-head systems that measure the magnetic field at >100 locations. OPM sensors can be constructed to measure the fiel...


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Microglial Necroptosis Mediated by RIPK3 Leads to Retinal Ganglion Cell Apoptosis Through the Release of FGF2 After Ischemia/Reperfusion

 Aimin
Sang

 17 2025-11-06

 1
min

 68
words

LOW VISION


Summary: The aim of this study was to explore the function of receptor-interacting protein kinase 3 (RIPK3) on retinal neuron damage induced by retinal ischemia/reperfusion (IR). Microglia-specific RIPK3 knockout (KO) mice were employed to establish retinal IR models. Retinal structural and functional status...

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Retinal Vasculitis as an Initial Presentation of Atypical Neurosarcoidosis With Occult Central Nervous System Inflammation

 Albert S
Li



2025-11-07



1
min



66
words

LOW VISION

Summary: Purpose: To describe a case of retinal vasculitis as a presenting sign of atypical neurosarcoidosis with occult central nervous system involvement. Methods: A case report and literature review are presented, highlighting the role of the ophthalmic examination and the importance of early neurologic w...



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BMR-YOLO: A deep learning approach for fall detection in complex environments

 Ping
Lan



2025-11-07



1
min



61
words

LOW VISION

Summary: Traditional fall detection methods face significant limitations in complex environments, particularly under occlusion and poor lighting conditions. To address these challenges and enhance the detection accuracy in intelligent real-time monitoring systems, this study proposes an optimized BMR-YOLO fr...





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Object recognition from sparse simulated phosphenes and curved segments

 Michael H
Herzog

 2025-11-07

 1
min

 71
words

LOW VISION


Summary: Cortical prostheses offer the potential for partial vision restoration in individuals with blindness by stimulating neurons to produce phosphenes. However, the low number of discrete phosphenes that can be simultaneously elicited in practice makes encoding of whole objects difficult, hindering recog...


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A 2D-digital spectral sensing method for rapid antibiotic detection in water

 Xin
Zhang

 2025-11-07

 1
min

 74
words

LOW VISION

Summary: Antibiotics (ABs) have emerged as a global emerging pollutant, and the efficient detection of ABs is of paramount importance for ecological and health risk management. Traditional detection instruments, operating under the principle of "separation first, analysis later," are characterized by intrica...

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Rapid consistent reef surveys with DeepReefMap

 Devis
Tuia


 2025-11-07

 1
min

 70
words

LOW VISION


Summary: In light of the critical threat to coral reefs worldwide due to human activity, innovative monitoring strategies are needed that are efficient, standardized, scalable, and economical. This paper presents the results of the first large-scale transnational coral reef surveying endeavor in the Red Sea ...


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Task optimized vision transformer for diabetic retinopathy detection and classification in resource constrained early diagnosis settings

 Ramaswamy
Krishnaraj

 2025-11-07

 1
min

 65
words

LOW VISION

Summary: Diabetic Retinopathy (DR) is a progressive complication of diabetes and a leading cause of preventable blindness worldwide. Early detection and accurate classification of DR severity are critical for timely intervention but remain challenging, particularly in resource-constrained settings. While con...

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Walking experience affects locomotor exploration in infants born prematurely: a comparative cross-sectional study



Paula Fávoro
Polastri



2025-11-07



1
min



71
words

LOW VISION

Summary: CONCLUSIONS: Walking experience can predict developmental changes in the exploratory locomotor behavior of FT infants, but not in PT infants, who exhibit different developmental trends compared to their peers. Opportunities gained with the increase in independent walking experience in the first six ...



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Association of social participation with progression and reversion of intrinsic capacity in older adults: based on multistate model



Gong
Chen



2025-11-08



1
min



49
words

LOW VISION

Summary: CONCLUSION: Social participation could slow down the IC declines, mitigate mortality, and prolong life expectancy. The findings provide evidence to call for all sectors to embed social participation into healthcare and pension systems to promote healthy, active, and successful ageing, and ultimately...






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Towards a global scale for functional ability: what gets measured and gets done-but are we measuring the right thing?

 Jotheeswaran Amuthavalli
Thiyagarajan

 2025-11-08  1 min

 69 words

LOW VISION



Summary: Functional ability-'the health-related attributes that enable people to be and do what they have reason to value'-is the core outcome indicator of the UN Decade of Healthy Ageing (2021-30). Despite its centrality, there is still no globally standardised tool to measure functional ability across five...

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The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction

 Thomas Hummel

 2025-05-28  1 min  70 words


TACTILE ACUITY

Summary: In the oral cavity, oral stereognosis and chemesthesis refer to the abilities to recognize shapes and detect noxious substances, respectively, through various receptors distributed on the tongue. The absence of standardized methods to assess oral somatosensory perception has led to a lack of consens...

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Measuring the Distribution of Tactile Acuity at the Index Finger and Thumb Fingertips

 Hiroyuki Kajimoto

 2025-06-17  1 min  75 words

TACTILE ACUITY


Summary: In our day-to-day activities, we utilize not only the pads of our fingers but also the sides and hemispherical tips when manipulating objects. For teleoperation systems to replicate these real-life interactions, tactile sensation must be presented and distributed across the entire fingertip. Thus, u...

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Optimizing Vibrotactile Feedback for Sensory Substitution in the Thigh: Spatial Acuity and Frequency Characteristics

 Leah R
Bent

 2025-06-27

 1
min

 69
words

TACTILE ACUITY


Summary: Amputation of a lower limb not only affects mobility but also interferes with sensory feedback, leading to an elevated risk of falls among individuals living with amputation. Sensory substitution, achieved through tactile displays embedded in transfemoral prosthetic sockets, presents a promising non...


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Directional vibro-tactile hazard warnings for drivers with vision impairments

 Alex R
Bowers

 2025-07-02

 1
min

 80
words

TACTILE ACUITY


Summary: Vision impairment may delay responses to hazards when driving. In a proof-of-concept driving simulator study, we evaluated a hazard warning device designed for vision impaired drivers. Three groups participated: 11 persons with central vision loss (CVL; median age 60 years), 12 with homonymous field...



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Sensitivity and vagal reactivity to C-tactile-mediated affective touch in mild cognitive impairment due to Alzheimer's disease

 Cecilia
Guariglia

 2025-08-01  1
min

 64
words

TACTILE ACUITY

Summary: BackgroundC-tactile (CT) afferents preferentially activate in response to slow caress-like touch, evoking a diffuse pleasant sensation and promoting autonomic regulation. According to Braak's classic model, the neurodegenerative process in Alzheimer's disease (AD) only affects somatosensory cortices...



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Differences in tactile grid localization accuracy between people with back pain compared to individuals without pain


 Eric
Fjeldheim

 2025-08-24  1
min

 22
words

TACTILE ACUITY

Summary: OBJECTIVES: The study aimed to investigate the grid localization test (GLT) between patients with lower back pain and those without back pain.

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Eye Drop Instillation Success and Hand Function in Adults with Glaucoma: A Pilot Study



Paula Anne Newman-
Casey



2025-09-09



1
min



74
words

TACTILE ACUITY

Summary: CONCLUSIONS: Despite hand function deficits, in this exploratory pilot study, adults with glaucoma demonstrated eye drop instillation success comparable to those without glaucoma, though with higher rates of bottle tip contact with the eye, skin, or eyelashes, suggesting an increased risk of potenti...



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Functional evidence for early origin of tactile acuity in the vertebrate somatosensory system



Sviatoslav N
Bagriantsev



2025-09-13



1
min



58
words

TACTILE ACUITY

Summary: Mammals and reptiles possess a sophisticated somatosensory system for precise tactile discrimination via mechanosensory end-organs, such as Meissner and Pacinian corpuscles and others. These structures detect sustained pressure, velocity, and vibrations, thereby facilitating nuanced environmental in...






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The coarse mental map of the breast is anchored on the nipple

 Charles M
Greenspon

 2025-09-18  1
min

 86
words

TACTILE ACUITY

Summary: Touch plays a key role in our perception of our body and shapes our interactions with the world, from the objects we manipulate to the people we touch. While the tactile sensibility of the hand has been extensively characterized, much less is known about touch on other parts of the body. Despite the...



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Haptic Feedback Systems for Lower-Limb Prosthetic Applications: A Review of System Design, User Experience, and Clinical Insights

 Runar
Unnthorsson

 2025-09-27  1
min

 65
words

TACTILE ACUITY

Summary: Systems presenting haptic information have emerged as an important technological advance in assisting individuals with sensory impairments or amputations, where the aim is to enhance sensory perception or provide sensory substitution through tactile feedback. These systems provide information on lim...

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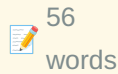
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Wireless Electrotactile System with Hydrogel-Based Electrodes for Conformal Tactile Interaction

Ji
Liu

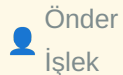
2025-09-02


[BRAILLE](#)

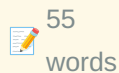
Summary: A wireless epidermal electrotactile interface is demonstrated through integration of skin-conformal electrodes and flexible circuitry, addressing existing limitations in haptic technology caused by mechanical mismatch and system-level integration challenges. This electrotactile system achieves low s...


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Beyond access: rethinking assistive technology for individuals with visual impairments in Türkiye

Önder
İşlek


2025-09-12




[BRAILLE](#)


Summary: CONCLUSION: Despite demonstrating adaptability, individuals with VI in Türkiye face significant structural barriers to equitable AT access. Informal learning limited public support, and a lack of locally adapted tools contribute to digital exclusion. A rights-based approach-emphasizing inclusive fun...


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High prevalence of bacterial STI, anal HPV, cytological abnormalities and anal lesions among MSM in Togo, 2021: a baseline analysis of the ANRS I MIE 12,400/DepIST-H cohort

 Didier K
Ekouevi

 2025-09-27  1
min

 42
words


BRAILLE


Summary: CONCLUSIONS: These findings emphasize the high prevalence of STIs among MSM and confirm the unusual distribution of HPV types in West Africa, with HPV35 being highly prevalent. A national strategy regarding STI screening and HPV vaccination in this key population is needed.

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
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Development and Assessment of a Novel Audiosensory Performance Method for Improving the Oral Health of Visually Impaired Children

 Divya Singh

 2025-10-03

 1 min

 73 words

BRAILLE

Summary: This study evaluated the effectiveness of an audiosensory performance method in enhancing oral health knowledge and status among visually impaired children aged 6-12 years in the National Capital Region (NCR), Delhi. An interventional study design was used, involving 251 participants equally divided...


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Examining the ability of the interRAI communication collaborative action plan to identify individuals with sensory challenges: A retrospective cohort study

 Dawn M
Guthrie

 2025-10-23

 1
min

 62
words

BRaille

Summary: CONCLUSIONS: The communication CAP was robust in flagging individuals with sensory impairments as these individuals are more likely to fall into the triggered to facilitate improvement group. The three case studies highlight the importance of assessing all aspects of communication (e.g., cognitive, ...

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Analysis of Stability and Functionality of Coil and Piezoelectric Braille Modules Under Varying Temperature Conditions



Robert P
Socha



2025-10-29



1
min



73
words

BRAILLE

Summary: In this study, the performance and reliability of two different types of Braille modules, i.e., coil and piezoelectric, under varying temperature conditions were compared. The coil module works on the principle of electromagnetic forces generated by coils, while the piezoelectric module is based on ...



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Challenges faced by visually impaired individuals from the perspective of faculty members: a phenomenological study



Yasir Ayed
Alsamiri



2025-10-31



1
min



64
words

BRAILLE

Summary: Visually impaired students in higher education face significant academic, social, and psychological barriers that are often overlooked by faculty. This phenomenological study explored these challenges at Hail University, Saudi Arabia, by purposively sampling six faculty members from the Colleges of ...



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The effect of nurse-led body protection education on the sexual abuse knowledge levels of students with visual impairments: a randomized controlled trial

 Ayse
Ergun

 17

2025-11-01



1

min



35

words

BRAILLE

Summary: CONCLUSIONS: Nurse-led body protection education effectively improved the sexual abuse knowledge levels of students with visual impairments. This intervention can be feasibly implemented among students with visual impairments to enhance their awareness and protective skills.





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Students' preference for the use of assistive technology in higher education in Tanzania: does gender make a difference?

 Sarah Ezekiel
Kisanga

 17 2025-11-05

 1
min

 63
words

BRAILLE


Summary: CONCLUSIONS: The study highlights the generally similar preferences for assistive technology among male and female students with visual impairments, despite some subtle differences in user experience, particularly with high-tech devices. It is recommended that higher education institutions strengthe...


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A Braille Trail for all: Inclusive design in the Karoo Desert National Botanical Garden

 Wilhelm G D V
Tempelhoff

 17 2025-11-07

 1
min

 51
words

BRAILLE

Summary: CONCLUSION: The Braille Trail integrates sensory garden design, accessibility, and diverse communication technologies - including digital platforms and locative literature - while incorporating indigenous elements to enrich visitor experiences. Continued community engagement, together with lessons d...



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Non-invasive neuromodulation for the treatment of drug-resistant epilepsy: Protocol for a systematic review and meta-analysis investigating efficacy, safety, and optimal stimulation parameters

 Hugh D
Simpson

 2025-11-06  1
min

 63
words

TDCS TACS TRNS

Summary: BACKGROUND: Non-invasive neuromodulation presents as an exciting potential adjunctive therapy for people with drug-resistant epilepsy (DRE). A major advantage of this approach is the absence of the neurocognitive and systemic adverse events commonly associated with anti-seizure medications (ASM), an...

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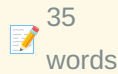
Sex differences in the effects of 10 Hz and 40 Hz transcranial alternating current stimulation on spatial cognition in mice



Yu

Fu

2025-11-06



TDCS TACS TRNS

Summary: CONCLUSIONS: This animal study suggests that tACS may influence spatial cognition differently in males and females. Our findings highlight the importance of considering the interaction between sex and stimulation frequency when optimizing tACS intervention parameters.



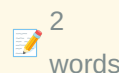
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Is transcranial direct current stimulation a viable treatment option for fibromyalgia?

André Russowsky
Brunoni

2025-11-06



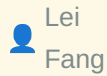
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Effects of neuromodulation techniques on pain and depression in patients with phantom limb pain: a systematic review and meta-analysis



Lei

Fang



2025-11-07



1

min



38

words

TDCS TACS TRNS

Summary: CONCLUSION: Neuromodulation techniques, particularly rTMS and tDCS, are effective in reducing PLP but do not significantly alleviate depression. Further large-scale RCTs with longer follow-ups are needed to confirm these findings and explore the efficacy of other neuromodulation methods.



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Effects in brain symmetry and functional connectivity of tDCS combined with XR in chronic stroke



Gabriela

Castellano



2025-11-07



1

min



63

words

TDCS TACS TRNS

Summary: This study examines the effects of combining transcranial direct current stimulation (tDCS) with extended reality (XR) exercises on brain connectivity and motor recovery in chronic stroke. We evaluate changes in electroencephalography (EEG) based connectivity and symmetry parameters, their correlati...



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Effects of transcranial direct current stimulation, associated with manual vagus nerve therapy, on pain in women with fibromyalgia: study protocol for a double-blind, randomized, controlled clinical trial



Fernando Zanela da Silva
Arêas



2025-11-07



1
min



67
words

TDCS TACS TRNS

Summary: INTRODUCTION: Fibromyalgia (FM) is a condition of generalized musculoskeletal pain, associated with fatigue, autonomic dysfunction, and sleep disorders. Transcranial direct current stimulation (tDCS) is a non-invasive brain stimulation technique, tested in several diseases, including FM and dependin...





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New insights into the phylogenetic and biogeographic analysis of *Elaeocarpus* (Elaeocarpaceae) in China, and further consolidated 'Acronodia' as a distinct group

 Zhixiang
Zhang

 2025-11-07  1
min

 26
words

TDCS TACS TRNS

Summary: CONCLUSION: Overall, this study highlights the taxonomic utility of chloroplast genomes in *Elaeocarpus*, and the time and regions of origin will facilitate future studies on conservation.



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Effects of different rehabilitation therapies on upper extremity motor function and activities of daily living in hemiplegic patients with stroke: A network meta-analysis

 Xinghui
Cui

 2025-11-08  1
min

 34
words

TDCS TACS TRNS


Summary: CONCLUSION: RFE + BoNT-A and AO exhibit advantages in improving upper extremity motor function and AO, respectively. Due to some limitations in this study, more high-quality RCTs are still required to validate our findings.



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
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The Combined Effectiveness of Neurofeedback and Complementary or Neuromodulatory Therapies on Adult Mental Health: A Systematic Review

 Zahra
Zolghadr

 17 2025-11-08  1
min

 48
words

TDCS TACS TRNS

Summary: CONCLUSION: NFB with CBT or mindfulness shows preliminary signals warranting further investigation, particularly for depression and anxiety. However, current evidence-constrained by small samples, short follow-up, and potential publication bias-is insufficient for clinical recommendation. Large-scal...

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Exploring the Mechanism of Transcranial Direct Current Stimulation Combined with Aerobic Exercise in Improving Working Memory of Post-Stroke Patients with Cognitive Dysfunction: An Event-Related Potentials Study

 Yingying
Ji

 17

2025-11-08



1
min



37
words

TDCS TACS TRNS

Summary: CONCLUSIONS: Combining tDCS and AE did not enhance 1-back task performance but modulated N200 and P300, suggesting benefits for early-stage conflict monitoring and sequence mismatch recognition in working memory, supporting a potential multimodal rehabilitation strategy for PSCI.

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Working Memory Load-Dependent Cortical Mechanism of Distraction Analgesia in Healthy Individuals: An fNIRS Study

Wen
Wu


17 2025-11-03

1
min

36
words

FNIRS

Summary: CONCLUSION: This study provides evidence for load-dependent cortical mechanism of distraction analgesia in healthy individuals. We conclude that distraction analgesia effect of WM may result from suppression of sensorimotor cortical activity and decoupling of pain-processing networks.

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Differential effects of physical activity on behavioral and prefrontal responses during repetitive inhibitory control in older adults

Min-Seong
Ha

17 2025-11-03

1
min

56
words

FNIRS

Summary: CONCLUSION: Regular physical activity may enhance cognitive adaptability and selective inhibition in older adults. Behavioral improvements were more evident than neural differences between the groups, highlighting the potential of everyday physical activity to support cognitive resilience in aging. ...


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Effects of seated Tai Chi Yunshou on upper limb function among stroke patients in the subacute phase: A study protocol for a randomized controlled trial

 Jiming
Tao

 2025-11-03

 1
min

 75
words

FNIRS

Summary: BACKGROUND: Upper limb dysfunction after stroke is one of the common problems. Tai Chi Yunshou exercise and seated Tai Chi exercise have been confirmed that it is beneficial on upper limb function for stroke patients. Seated Tai Chi Yunshou exercise easier and suitable for stroke patients who are un...


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Imitation learning and co-presence learning influence the acquisition of word formation rules: A fNIRS hyperscanning study

 Huanhuan
Liu


 2025-11-03

 1
min

 68
words

fNIRS


Summary: Imitation learning and co-presence learning are common forms of social learning. However, the effects of these two types of learning on acquiring word formation rules have gone relatively underexplored, particularly in the context of adult social learning. The current study uses functional near-infr...



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The PATHways to Resilience And Mental health (PARAM) project: protocol for a multi-site developmental cohort in India

 PARAM
Collaborators

 2025-11-03  1 min

 58 words

FNIRS

Summary: BACKGROUND: Psychiatric disorders are increasingly conceptualised within a neurodevelopmental framework, in which genetic liability interacts with environmental exposures across the lifespan to shape brain and behavioural trajectories. Deviations in these trajectories may confer vulnerability or res...



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Action observation therapy effects on motor function and balance in cerebral palsy: an fNIRS-based randomized trial

 Fatma
Mutluay

 2025-11-04  1 min

 75 words

FNIRS


Summary: Cerebral palsy (CP) is an umbrella term for movement, motor, and posture disorders that occur in the developing brain from any non-progressive cause. Action observation therapy (AOT) is a method used in the treatment of motor disorders. Here, the manuscript presents the study protocol for the effect...


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The influence of social motivation diversity on group creativity: evidence from fNIRS hyperscanning

 Sai Nan
Ren

 2025-11-05

 1
min

 59
words

FNIRS


Summary: Social motivation diversity, defined as the heterogeneity in group members' preferences for maximizing either individual (pro-self) or collective (pro-social) outcomes, remains underexplored in its neural correlates with group creativity. This study employed functional near-infrared spectroscopy (fN...


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Multimodal neurobehavioral integration in binocular color rivalry: cortical-eye movement analysis under color, location, and combined stimuli

 Zaiqing
Chen

 2025-11-06

 1
min

 43
words

FNIRS


Summary: CONCLUSION: Color stimuli induce rapid saccadic behavior and impose higher prefrontal load, Location stimuli engage a more efficient dorsal pathway, while Color & Location stimuli intensify resource rivalry and induce a processing bottleneck, manifested as prolonged reaction times co-occurring with ...


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Deep Learning From Diffuse Optical Oximetry Time-Series: An fNIRS-Focused Review of Recent Advancements and Future Directions

 Alexander von
Luhmann

 2025-11-06

 1
min

 69
words

fNIRS


Summary: Human neuroscience is undergoing a paradigm shift from traditional lab settings to natural environments. Functional Near Infrared Spectroscopy (fNIRS) and its variant, High-Density Diffuse Optical Tomography (HD-DOT) are rapidly evolving techniques that are increasingly adopted across disciplines. T...

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
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Sensory integration deficits in Parkinson's disease with freezing of gait: cortical network dynamics and paradoxical dopaminergic modulation

 Xia
Shen

 2025-11-07

 1
min

 58
words

FNIRS


Summary: CONCLUSION: This study reveals a medication-dependent, biphasic cortical dysfunction in PD-FOG. The OFF-medication state shows compensatory hyperconnectivity that fails under sensory challenges, indicating deficient plasticity, whereas the ON-medication state exhibits a paradoxical suppression of se...

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Generative motor imagery dynamic networks: EEG-controlled grasping via individualized model training

 Jianhong
Yang

 2025-11-07

 1
min

 71
words

BRAIN COMPUTER INTERFACE


Summary: Improving the accuracy of non-invasive brain-computer interface (BCI) and promoting their daily use can be achieved by developing an individualized model training framework, where individual training means that the model is based on small-sample learning from individual data. In the process of data ...

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SFT-HN: a novel spatial-frequency-temporal hybrid network for EEG-based emotion recognition

 Jianhai
Zhang

 17

2025-11-07



1
min



72
words

BRAIN COMPUTER INTERFACE

Summary: Electroencephalograph (EEG) emotion recognition is a key task in the brain-computer interface(BCI) field. A mounting quantity of studies have shown that deep learning methods for emotion recognition exhibit superior performance compared to traditional techniques. However, it is still challenging to ...

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A dual-branch neural network and attention mechanism for decoding EEG-based motor imagery

 Chunfang
Wang

 17

2025-11-07



1
min



66
words

BRAIN COMPUTER INTERFACE

Summary: Motor imagery (MI) is a fundamental paradigm in brain-computer interfaces (BCIs), extensively employed to assist individuals with disabilities to operate external devices. Accurate decoding of MI signals is essential for effective interaction. However, robust decoding remains a challenge due to the ...

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Dual-Branch Attention-based Frequency Domain Network for Cross-subject SSVEP-BCIs

Feng
Wan

2025-11-07

1
min

55
words

BRAIN COMPUTER INTERFACE

Summary: Steady-state visual evoked potential-based brain-computer interfaces (SSVEP-BCIs) hold significant promise for enabling high-speed human-computer interaction in real-world scenarios. However, existing frequency-domain decoding methods treat frequency spectrum features (the real and imaginary spectru...

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A large electroencephalogram database of freewill reaching and grasping tasks for brain machine interfaces

Jihye
Bae

2025-11-07

1
min

69
words

BRAIN COMPUTER INTERFACE


Summary: Brain machine interfaces (BMIs) offer great potential to improve the quality of life for individuals with neurological disorders or severe motor impairments. Among various neural recording modalities, electroencephalogram (EEG) is particularly favorable for BMIs due to its noninvasive nature, portab...


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Brain-Computer Interface Improves Symptoms of Isolated Focal Laryngeal Dystonia: A Single-Blind Study

 Kristina
Simonyan

 2025-11-08

 1
min

 38
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSION: The closed-loop BCI neurofeedback intervention specifically targeting disorder pathophysiology shows significant potential as a novel treatment option for patients with LD and likely other forms of task-specific focal dystonia. © 2025 International Parkinson and Movement Disorder Society...


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NeuroCommTrainer: Toward an Adaptive and Wearable Multimodal Brain-Computer Interface

 Johanna
Kissler


 2025-11-08

 1
min

 67
words

BRAIN COMPUTER INTERFACE

Summary: Introduction: To date, brain-computer interfaces (BCIs) have not achieved reliable real-time communication through auditory or tactile modalities. Such interfaces would be crucial for brain-injured patients with severe motor impairments who are also blind or deaf. This study validates the functional...

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Assessment of glymphatic dysfunction in ulcerative colitis using DKI-ALPS: An innovative imaging biomarker

Jun
Liu

2025-11-08

1
min

32
words

BRAIN COMPUTER INTERFACE

Summary: CONCLUSIONS: UC is associated with brain glymphatic dysfunction, correlating with inflammation level. DKI-ALPS serves as a more sensitive method than DTI-ALPS, offering a new approach for managing ulcerative colitis through glymphatic dysfunction.

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BACNet: A multi-attention network for cross-subject and cross-task EEG-based pilot operational intent recognition

Yining
Zeng

2025-11-08

1
min

30
words

BRAIN COMPUTER INTERFACE


Summary: CONCLUSION: With its lightweight architecture and high accuracy, BACNet not only provides a novel solution for pilot operational intent recognition but also demonstrates broad applicability in brain-computer interface (BCI) systems.



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On questions of predictability and control of an intelligent system using probabilistic state-transitions

 Jayanth R
Taranath

 2025-11-08  1
min

 75
words

BRAIN COMPUTER INTERFACE

Summary: One of the central aims of neuroscience is to reliably predict the behavioral response of an organism using its neural activity. If possible, this implies we can causally manipulate the neural response and design brain-computer-interface systems to alter behavior, and vice-versa. Hence, predictions ...

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Implicit learning of melodic structure: A role for pitch?

 2024-01-22  1
min

 180
words



PSYCHOMUSICOLOGY

Summary: Growing evidence suggests that pitch influences musical processing, with melodic processing being enhanced in higher pitch ranges (e.g., Fujioka et al., 2005) and rhythmic processing being enhanced in lower pitches, and these effects may have a basis in elementary properties of the auditory system (...)

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Autonomous sensory meridian response (ASMR): A PRISMA-guided systematic review.

 2023-11-02  1 min  156 words

CLINICAL NEUROSCIENCE

Summary: The present PRISMA-guided article systematically reviews the current state of research on the autonomous sensory meridian response (ASMR). A systematic literature search was conducted in Pubmed, SCOPUS, and Web of Science (last search: March 2022) selecting all studies that conducted quantitative sc...

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