

RAGUSA EDOARDO

Overview

- ? Unit: ICT
- ? Role: Ricercatore
- ? Grade: Ricercatore a t.d art. 24 c.3 L.240/2010, L.79/2022 (RTT) (t.pieno) +20%
- ? SSD: IINF-01/A (Elettronica)
- ? Scopus ID: 56580248800
- ? Unige Id: 352368
- ? Retrieved at: 2025-11-14T15:16:36.914622

Contact

- ? Email: edoardo.ragusa@unige.it
- ? Page: <https://rubrica.unige.it/personale/VkZFWFjh>
- ? Locations: Opera Pia - padiglione D (ED161450401), 2° piano, US161450401.II.032

Career

- ? Dr, 2015-11-01 ? 2018-10-31
- ? Cb, 2017-10-29 ? 2021-04-08
- ? Ar, 2018-11-02 ? 2021-06-30
- ? Rd, 2021-07-01 ? 2030-09-14

Teaching

2025

- ? Elettronica Dei Sistemi Digitali (72345), L-8 R - Ingegneria Elettronica E Tecnologie Dell'Informazione
- ? Elettronica Dei Sistemi Digitali (72345), L-8 R - Ingegneria Elettronica E Tecnologie Dell'Informazione
- ? Tiny Machine Learning (114752), Lm-29 - Electronic Engineering

2024

- ? Elettronica Dei Sistemi Digitali (72345), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione
- ? Elettronica Dei Sistemi Digitali (72345), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione
- ? Tiny Machine Learning (114752), Lm-29 - Electronic Engineering

2023

- ? Machine Learning (106788), Lm-29 - Ingegneria Elettronica
- ? Elettronica Dei Sistemi Digitali (72345), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione

2022

- ? Machine Learning (106788), Lm-29 - Ingegneria Elettronica
- ? Elettronica Dei Sistemi Digitali (72345), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione

2021

- ? Machine Learning (106788), Lm-29 - Ingegneria Elettronica
- ? Elettronica Dei Sistemi Digitali (72345), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione

2020

- ? Elettronica Dei Sistemi Digitali (72345), L-8 - Ingegneria Elettronica E Tecnologie

Dell'Informazione

Scopus Metrics

- ? absolute; Docs: 70; Journals: 33; Conferences: 23; Citations: 568; H-index: 12
- ? 15 years (2010-2025); Docs: 70; Journals: 33; Conferences: 23; Citations: 568; H-index: 12
- ? 10 years (2015-2025); Docs: 70; Journals: 33; Conferences: 23; Citations: 568; H-index: 12
- ? 05 years (2020-2025); Docs: 58; Journals: 26; Conferences: 18; Citations: 285; H-index: 10

Scopus Products

1.
 - ? Title: Searching Neural Architectures for Sensor Nodes on IoT Gateways
 - ? Venue: IEEE Internet of Things Journal
 - ? Year: 2025
 - ? Type: Journal
 - ? Subtype: Article
 - ? Citations: 0
 - ? Doi: 10.1109/Jiot.2025.3581442
 - ? Scopus ID: 2-s2.0-105008890174
 - ? eISSN: 23274662
 - ? Volume: 12
 - ? Issue: 21
 - ? Pages: 44492-44501
 - ? Authors: Garavagno Andrea Mattia; Ragusa Edoardo; Frisoli Antonio; Gastaldo Paolo
 - ? Keywords: Edge AI | Healthcare Internet of Things (HIoT) | Industrial Internet of Things (IIoT) | neural architecture search
 - ? Quartile:
 - 2025:
 - ? Computer Networks and Communications (Q1, rank 20, percentile 96)
 - ? Hardware and Architecture (Q1, rank 9, percentile 96)
 - ? Signal Processing (Q1, rank 12, percentile 94)
 - ? Computer Science Applications (Q1, rank 62, percentile 93)
 - ? Information Systems (Q1, rank 32, percentile 93)
 - ? Source Id: 21100338350
 - ? Author Ids: 57890031900;56580248800;6603070041;35612596100
 - ? Authoraffiliationids: 60025153-60028039;60025153;60028039;60025153
 - ? Corresponding: Garavagno A.M.
2.
 - ? Title: Real Time implementation of Artificial Intelligence compression algorithm for High-Speed Streaming Readout signals
 - ? Venue: EPJ Web of Conferences
 - ? Year: 2025
 - ? Type: Conference Proceeding
 - ? Subtype: Conference Paper
 - ? Citations: 0
 - ? DOI: 10.1051/epjconf/202533701135
 - ? Scopus ID: 2-s2.0-105019664430
 - ? Issn: 21016275
 - ? eISSN: 2100014X
 - ? Volume: 337
 - ? Authors: Rossi Fabio; Battaglieri Marco; Gavalian Gagik; Ragusa Edoardo; Gastaldo Paolo

? Quartile:

2025:

? Physics and Astronomy (all) (Q4, rank 240, percentile 3)

? Source Id: 21100227410

? Author Ids: 58247851100;7004520678;35227304900;56580248800;35612596100

? Authoraffiliationids: 60021660;60021660;115959761;60025153;60025153

? Corresponding: Rossi F.

3.

? Title: Special Issue on integration of machine learning and edge computing for next generation of smart wearable systems

? Venue: Future Generation Computer Systems

? Year: 2025

? Type: Journal

? Subtype: Editorial

? Citations: 0

? DOI: 10.1016/j.future.2024.107574

? Scopus ID: 2-s2.0-85208314883

? Issn: 0167739x

? Volume: 164

? Authors: Gastaldo Paolo; Ragusa Edoardo; Dosen Strahinja; Palmieri Francesco

? Keywords: Deep learning | Edge computing | Machine learning

? Quartile:

2025:

? Hardware and Architecture (Q1, rank 5, percentile 98)

? Computer Networks and Communications (Q1, rank 15, percentile 97)

? Software (Q1, rank 26, percentile 94)

? Source Id: 12264

? Author Ids: 35612596100;56580248800;23388778600;7103111550

? Authoraffiliationids: 60025153;60025153;60022134;60007061

? Corresponding: Gastaldo P.

4.

? Title: Supporting in-Sensor Computing with Hardware-Aware Neural Architecture Search

? Venue: Lecture Notes in Electrical Engineering

? Year: 2025

? Type: Book Series

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1007/978-3-031-71518-1_48

? Scopus ID: 2-s2.0-85216033591

? Issn: 18761100

? eISSN: 18761119

? Volume: 1263 Lnee

? Pages: 407-412

? Authors: Mattia Garavagno Andrea; Ragusa Edoardo; Zunino Rodolfo; Frisoli Antonio; Gastaldo Paolo

? Keywords: hardware-aware neural architecture search | In-sensor computing | tinyML

? Quartile:

2025:

? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)

? Source Id: 19700186822

? Author Ids: 57890031900;56580248800;7006338311;6603070041;35612596100

? Authoraffiliationids: 60025153-60028039;60025153;60025153;60028039;60025153

? Corresponding: Mattia Garavagno A.

5.

? Title: Towards Energy-Efficient Smart Sensing Nodes for Automatic Structural Health Monitoring
? Venue: Lecture Notes in Electrical Engineering
? Year: 2025
? Type: Book Series
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1007/978-3-031-71518-1_50
? Scopus ID: 2-s2.0-85215950120
? Issn: 18761100
? eISSN: 18761119
? Volume: 1263 Lnee
? Pages: 422-428
? Authors: Ragusa Edoardo; Zonzini Federica; Gastaldo Paolo; Zunino Rodolfo; De Marchi Luca
? Keywords: Energy profiling | Smart Sensors | Tiny CNNs | Vibration inspection
? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
? Source Id: 19700186822
? Author Ids: 56580248800;57204769530;35612596100;7006338311;57210976394
? Authoraffiliationids: 60025153;60028218;60025153;60025153;60028218
? Corresponding: Ragusa E.

6.

? Title: Filling the Pareto-Optimal Front for Affordance Segmentation on Embedded Devices Using RGB-D Cameras
? Venue: IEEE Sensors Journal
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? Doi: 10.1109/Jsen.2025.3574506
? Scopus ID: 2-s2.0-105007421510
? Issn: 1530437x
? eISSN: 15581748
? Volume: 25
? Issue: 14
? Pages: 27467-27477
? Authors: Ragusa Edoardo; Paolo Canuti Giovanni; Lugani Simone; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Affordance segmentation (AS) | embedded systems | grasping | microcontrollers | tiny CNNs | wearable robots
? Quartile:
2025:
? Instrumentation (Q1, rank 27, percentile 85)
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)
? Source Id: 15047
? Author Ids: 56580248800;60004874500;58864648100;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

7.

? Title: Evaluation of a Haptic-Actuated Glove for Remote Human-Robot Interaction (HRI): A Proof of Concept
? Venue: Springer Proceedings in Advanced Robotics

? Year: 2025
? Type: Book Series
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1007/978-3-031-89471-8_33
? Scopus ID: 2-s2.0-105006596448
? Issn: 25111256
? eISSN: 25111264
? Volume: 36 Spar
? Pages: 213-219
? Authors: Di Tecco Antonio; Genua Alessandro; Serra Federica; Camardella Cristian; Loconsole Claudio; Ragusa Edoardo; Solazzi Massimiliano; Frisoli Antonio
? Keywords: Collision Avoidance | Collision Detection | Computer Vision | Deep Learning | Haptic Feedback | Human-Machine Interaction | Human-Robot Interaction | Machine Learning | Mobile Robots | Object Detection | Telerobotics | UGV
? Quartile:
2025:
? Applied Mathematics (Q3, rank 410, percentile 38)
? Electrical and Electronic Engineering (Q3, rank 626, percentile 37)
? Mechanical Engineering (Q3, rank 477, percentile 35)
? Engineering (miscellaneous) (Q3, rank 181, percentile 35)
? Control and Systems Engineering (Q3, rank 252, percentile 33)
? Artificial Intelligence (Q3, rank 333, percentile 32)
? Computer Science Applications (Q3, rank 684, percentile 30)
? Source Id: 21101047137
? Author Ids: 57314851500;58900695300;59920170200;57204360981;36195922700;56580248800;19640255000;6603070041
? Authoraffiliationids:
60028039;60028039;60028039;60028039;60114022;60025153;60028039;60028039
? Corresponding: Di Tecco A.

8.
? Title: On-Device Neural Architecture Search
? Venue: Digest of Technical Papers IEEE International Conference on Consumer Electronics
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Icce63647.2025.10929801
? Scopus ID: 2-s2.0-105006580644
? Issn: 0747668x
? eISSN: 21591423
? Authors: Garavagno Andrea Mattia; Ragusa Edoardo; Gastaldo Paolo; Frisoli Antonio; Loconsole Claudio
? Keywords: Human-Machine Interfaces | Intelligent Fault Diagnosis | Neural Architecture Search | TinyML
? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q3, rank 254, percentile 38)
? Electrical and Electronic Engineering (Q3, rank 659, percentile 34)
? Source Id: 26010
? Author Ids: 57890031900;56580248800;35612596100;6603070041;36195922700
? Authoraffiliationids: 60025153-60028039;60025153;60025153;60028039;60028039-60114022
? Corresponding: Garavagno A.M.

9.

? Title: Artificial Intelligence Data Reduction Algorithm for Streaming Readout in High Energy Physics Experiment
? Venue: Communications in Computer and Information Science
? Year: 2025
? Type: Book Series
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1007/978-3-031-85856-7_5
? Scopus ID: 2-s2.0-105003621453
? Issn: 18650929
? eISSN: 18650937
? Volume: 2253 Ccis
? Pages: 50-58
? Authors: Rossi Fabio; Battaglieri Marco; Ragusa Edoardo; Gastaldo Paolo; Gavalian Gagik
? Keywords: Artificial Intelligence | Data Reduction | High energy physics | Machine Learning | Streaming Readout
? Quartile:
2025:
? Mathematics (all) (Q3, rank 287, percentile 30)
? Computer Science (all) (Q4, rank 211, percentile 13)
? Source Id: 17700155007
? Author Ids: 58247851100;7004520678;56580248800;35612596100;35227304900
? Authoraffiliationids: 60114732;60114732;60025153;60025153;60026908
? Corresponding: Rossi F.

10.

? Title: Tiny Neural Networks for Session-Level Traffic Classification
? Venue: Lecture Notes in Electrical Engineering
? Year: 2025
? Type: Book Series
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1007/978-3-031-84100-2_41
? Scopus ID: 2-s2.0-105000819605
? Issn: 18761100
? eISSN: 18761119
? Volume: 1369 Lnee
? Pages: 347-354
? Authors: Chehade Adel; Ragusa Edoardo; Gastaldo Paolo; Zunino Rodolfo
? Keywords: Internet of Things | Network Traffic Analysis | Session Classification | Tiny CNNs
? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
? Source Id: 19700186822
? Author Ids: 59706455200;56580248800;35612596100;7006338311
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Chehade A.

11.

? Title: An Affordable Hardware-Aware Neural Architecture Search for Deploying Convolutional Neural Networks on Ultra-Low-Power Computing Platforms
? Venue: IEEE Sensors Letters
? Year: 2024

? Type: Journal
? Subtype: Article
? Citations: 8
? Doi: 10.1109/Lsens.2024.3387056
? Scopus ID: 2-s2.0-85190172188
? eISSN: 24751472
? Volume: 8
? Issue: 5
? Pages: 1-4
? Authors: Garavagno Andrea Mattia; Ragusa Edoardo; Frisoli Antonio; Gastaldo Paolo
? Keywords: hardware-aware neural architecture search (HW-NAS) | Sensor applications | TinyML | ultra-low-power computing
? Quartile:
2025:
? Instrumentation (Q2, rank 70, percentile 63)
? Electrical and Electronic Engineering (Q2, rank 397, percentile 60)
2024:
? Instrumentation (Q2, rank 77, percentile 56)
? Electrical and Electronic Engineering (Q2, rank 434, percentile 55)
? Source Id: 21100976671
? Author Ids: 57890031900;56580248800;6603070041;35612596100
? Authoraffiliationids: 60025153-60028039;60025153;60028039;60025153
? Corresponding: Garavagno A.M.

12.
? Title: Enhanced HW-NAS for Affordance Segmentation on Wearable Robotics
? Venue: Proceedings of the IEEE International Conference on Electronics Circuits and Systems
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Icecs61496.2024.10848579
? Scopus ID: 2-s2.0-85217615857
? Issn: 29945755
? eISSN: 29950589
? Authors: Ragusa Edoardo; Zunino Rodolfo; Loconsole Claudio; Frisoli Antonio; Gastaldo Paolo
? Keywords: Affordance segmentation | CNNs | Embedded Systems | Grasping | Wearable robots
? Quartile:
2025:
? Electrical and Electronic Engineering (Q4, rank 913, percentile 8)
2024:
? Electrical and Electronic Engineering (Q4, rank 941, percentile 2)
? Source Id: 91096
? Author Ids: 56580248800;7006338311;36195922700;6603070041;35612596100
? Authoraffiliationids: 60025153;60025153;60114022-60028039;60028039;60025153
? Corresponding: Ragusa E.

13.
? Title: Design and Implementation of Tiny Deep Neural Networks for Landing Pad Detection on UAVs
? Venue: IEEE Access
? Year: 2024
? Type: Journal

? Subtype: Article
? Citations: 0
? Doi: 10.1109/Access.2024.3454363
? Scopus ID: 2-s2.0-85203524214
? eISSN: 21693536
? Volume: 12
? Pages: 124009-124020
? Authors: Ragusa Edoardo; Taccioli Tommaso; Canepa Alessio; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Embedded systems | landing pad detection | microcontrollers | tiny CNNs | UAVs
? Quartile:
2025:
? Engineering (all) (Q1, rank 42, percentile 88)
? Computer Science (all) (Q1, rank 41, percentile 83)
? Materials Science (all) (Q1, rank 101, percentile 78)
2024:
? Engineering (all) (Q1, rank 32, percentile 90)
? Computer Science (all) (Q1, rank 33, percentile 86)
? Materials Science (all) (Q1, rank 87, percentile 81)
? Source Id: 21100374601
? Author Ids: 56580248800;57388797900;7004014399;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

14.

? Title: Compression-Accuracy Co-Optimization Through Hardware-Aware Neural Architecture Search for Vibration Damage Detection
? Venue: IEEE Internet of Things Journal
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 4
? Doi: 10.1109/Jiot.2024.3419251
? Scopus ID: 2-s2.0-85197040934
? eISSN: 23274662
? Volume: 11
? Issue: 19
? Pages: 31745-31757
? Authors: Ragusa Edoardo; Zonzini Federica; De Marchi Luca; Zunino Rodolfo
? Keywords: Automatic structural health monitoring (ASHM) | compression-accuracy co-optimization | energy profiling | hardware-aware neural architecture search (NAS) | smart sensor systems
? Quartile:
2025:
? Computer Networks and Communications (Q1, rank 20, percentile 96)
? Hardware and Architecture (Q1, rank 9, percentile 96)
? Signal Processing (Q1, rank 12, percentile 94)
? Computer Science Applications (Q1, rank 62, percentile 93)
? Information Systems (Q1, rank 32, percentile 93)
2024:
? Hardware and Architecture (Q1, rank 6, percentile 97)
? Computer Networks and Communications (Q1, rank 16, percentile 96)
? Signal Processing (Q1, rank 8, percentile 95)
? Information Systems (Q1, rank 21, percentile 95)

? Computer Science Applications (Q1, rank 45, percentile 95)
? Source Id: 21100338350
? Author Ids: 56580248800;57204769530;57210976394;7006338311
? Authoraffiliationids: 60025153;60028218;60028218;60025153
? Corresponding: Ragusa E.

15.

? Title: Combining Compressed Sensing and Neural Architecture Search for Sensor-Near Vibration Diagnostics
? Venue: IEEE Transactions on Industrial Informatics
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 8
? Doi: 10.1109/Tii.2024.3395648
? Scopus ID: 2-s2.0-85193296056
? Issn: 15513203
? eISSN: 19410050
? Volume: 20
? Issue: 8
? Pages: 10488-10498
? Authors: Ragusa Edoardo; Zonzini Federica; Gastaldo Paolo; De Marchi Luca
? Keywords: Compressed sensing (CS) | neural architectural search (NAS) | tiny convolutional neural networks (CNNs) | vibration-based diagnostics
? Quartile:
2025:
? Information Systems (Q1, rank 9, percentile 98)
? Electrical and Electronic Engineering (Q1, rank 20, percentile 98)
? Computer Science Applications (Q1, rank 22, percentile 97)
? Control and Systems Engineering (Q1, rank 9, percentile 97)
2024:
? Control and Systems Engineering (Q1, rank 6, percentile 98)
? Information Systems (Q1, rank 8, percentile 98)
? Computer Science Applications (Q1, rank 16, percentile 98)
? Electrical and Electronic Engineering (Q1, rank 19, percentile 98)
? Source Id: 144912
? Author Ids: 56580248800;57204769530;35612596100;57210976394
? Authoraffiliationids: 60025153;60028218;60025153;60028218
? Corresponding: Ragusa E.

16.

? Title: Running hardware-Aware neural architecture search on embedded devices under 512MB of RAM
? Venue: Digest of Technical Papers IEEE International Conference on Consumer Electronics
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 8
? Doi: 10.1109/Icce59016.2024.10444268
? Scopus ID: 2-s2.0-85187004558
? Issn: 0747668x
? eISSN: 21591423
? Authors: Garavagno Andrea Mattia; Ragusa Edoardo; Frisoli Antonio; Gastaldo Paolo
? Keywords: Hardware Aware Neural Architecture Search | Internet of Things | TinyML | Wearable Robotics

? Quartile:

2025:

? Industrial and Manufacturing Engineering (Q3, rank 254, percentile 38)

? Electrical and Electronic Engineering (Q3, rank 659, percentile 34)

2024:

? Industrial and Manufacturing Engineering (Q3, rank 238, percentile 40)

? Electrical and Electronic Engineering (Q3, rank 623, percentile 35)

? Source Id: 26010

? Author Ids: 57890031900;56580248800;6603070041;35612596100

? Authoraffiliationids: 60025153-60028039;60025153;60028039;60025153

? Corresponding: Garavagno A.M.

17.

? Title: Evaluating the Effect of Intrinsic Sensor Noise for Vibration Diagnostic in the Compressed Domain Using Convolutional Neural Networks

? Venue: Lecture Notes in Electrical Engineering

? Year: 2024

? Type: Book Series

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1007/978-3-031-48121-5_15

? Scopus ID: 2-s2.0-85184116173

? Issn: 18761100

? eISSN: 18761119

? Volume: 1110 Lnee

? Pages: 103-108

? Authors: Zonzini Federica; Ragusa Edoardo; De Marchi Luca; Gastaldo Paolo

? Keywords: CNNs | Compressed sensing | Intrinsic accelerometer noise | Structural health monitoring | Vibration analysis

? Quartile:

2025:

? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)

2024:

? Industrial and Manufacturing Engineering (Q4, rank 308, percentile 23)

? Source Id: 19700186822

? Author Ids: 57204769530;56580248800;57210976394;35612596100

? Authoraffiliationids: 60028218;60025153;60028218;60025153

? Corresponding: Zonzini F.

18.

? Title: Lightweight Neural Networks for Affordance Segmentation: Enhancement of the Decoder Module

? Venue: Lecture Notes in Electrical Engineering

? Year: 2024

? Type: Book Series

? Subtype: Conference Paper

? Citations: 3

? Doi: 10.1007/978-3-031-48121-5_63

? Scopus ID: 2-s2.0-85184096408

? Issn: 18761100

? eISSN: 18761119

? Volume: 1110 Lnee

? Pages: 437-443

? Authors: Lugani Simone; Ragusa Edoardo; Zunino Rodolfo; Gastaldo Paolo

? Keywords: Affordance Segmentation | Embedded Computer Vision | Wearable Robots

? Quartile:

2025:

? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)

2024:

? Industrial and Manufacturing Engineering (Q4, rank 308, percentile 23)

? Source Id: 19700186822

? Author Ids: 58864648100;56580248800;7006338311;35612596100

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Lugani S.

19.

? Title: Digital Architecture for the n-mode Tensor-Matrix Multiplication Based on Pipelined Computing Units

? Venue: Proceedings of the IEEE International Conference on Electronics Circuits and Systems

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Icecs61496.2024.10848931

? Scopus ID: 2-s2.0-105001476791

? Issn: 29945755

? eISSN: 29950589

? Authors: Ragusa Edoardo; Gianoglio Christian; Valle Maurizio; Gastaldo Paolo

? Keywords: Digital Architectures | Low-Power | Multidimensional Array | Tensors

? Quartile:

2025:

? Electrical and Electronic Engineering (Q4, rank 913, percentile 8)

2024:

? Electrical and Electronic Engineering (Q4, rank 941, percentile 2)

? Source Id: 91096

? Author Ids: 56580248800;56580140000;57197744325;35612596100

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Ragusa E.

20.

? Title: Semiquantitative Determination of Thiocyanate in Saliva Through Colorimetric Assays: Design of CNN Architecture via Input-Aware NAS

? Venue: IEEE Sensors Journal

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 3

? Doi: 10.1109/Jsen.2023.3325545

? Scopus ID: 2-s2.0-85176381838

? Issn: 1530437x

? eISSN: 15581748

? Volume: 23

? Issue: 23

? Pages: 29869-29876

? Authors: Taccioli Tommaso; Ragusa Edoardo; Pomili Tania; Gastaldo Paolo; Pompa Pier Paolo

? Keywords: Colorimetric test | convolutional neural networks (CNNs) | neural architecture search (NAS) | point-of-care (POC) | saliva | smart sensor

? Quartile:

2025:

? Instrumentation (Q1, rank 27, percentile 85)

- ? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)
2023:
? Instrumentation (Q1, rank 20, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 148, percentile 81)
? Source Id: 15047
? Author Ids: 57388797900;56580248800;57220960577;35612596100;7003705815
? Authoraffiliationids: 60102151;60025153;60102151;60025153;60102151
? Corresponding: Taccioli T.
21.
? Title: Affordance Segmentation Using Tiny Networks for Sensing Systems in Wearable Robotic Devices
? Venue: IEEE Sensors Journal
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 6
? Doi: 10.1109/Jsen.2023.3308615
? Scopus ID: 2-s2.0-85170541519
? Issn: 1530437x
? eISSN: 15581748
? Volume: 23
? Issue: 19
? Pages: 23916-23926
? Authors: Ragusa Edoardo; Dosen Strahinja; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Affordance segmentation | embedded systems | grasping | microcontrollers | tiny convolutional neural networks (CNNs) | wearable robots
? Quartile:
2025:
? Instrumentation (Q1, rank 27, percentile 85)
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)
- 2023:
? Instrumentation (Q1, rank 20, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 148, percentile 81)
? Source Id: 15047
? Author Ids: 56580248800;23388778600;7006338311;35612596100
? Authoraffiliationids: 60025153;60022134;60025153;60025153
? Corresponding: Ragusa E.
22.
? Title: Vibration Monitoring in the Compressed Domain With Energy-Efficient Sensor Networks
? Venue: IEEE Sensors Letters
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 7
? Doi: 10.1109/Lsens.2023.3300804
? Scopus ID: 2-s2.0-85166756736
? eISSN: 24751472
? Volume: 7
? Issue: 8
? Authors: Ragusa Edoardo; Zonzini Federica; De Marchi Luca; Gastaldo Paolo
? Keywords: compressed sensing (CS) | on-sensor feature extraction | Sensor applications | vibration monitoring
? Quartile:

2025:

- ? Instrumentation (Q2, rank 70, percentile 63)
- ? Electrical and Electronic Engineering (Q2, rank 397, percentile 60)

2023:

- ? Electrical and Electronic Engineering (Q2, rank 377, percentile 52)
- ? Instrumentation (Q3, rank 72, percentile 49)

? Source Id: 21100976671

? Author Ids: 56580248800;57204769530;57210976394;35612596100

? Authoraffiliationids: 60025153;60028218;60028218;60025153

? Corresponding: Ragusa E.

23.

? Title: Trade-off Between Accuracy and Computational Cost With Neural Architecture

Search: A Novel Strategy for Tactile Sensing Design

? Venue: IEEE Sensors Letters

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 12

? Doi: 10.1109/Lsens.2023.3273733

? Scopus ID: 2-s2.0-85159800531

? eISSN: 24751472

? Volume: 7

? Issue: 5

? Authors: Gianoglio Christian; Ragusa Edoardo; Gastaldo Paolo; Valle Maurizio

? Keywords: convolutional neural networks (CNNs) | neural architecture search (NAS) | Sensor applications | smart sensors | tactile systems | touch modality classification

? Quartile:

2025:

- ? Instrumentation (Q2, rank 70, percentile 63)

- ? Electrical and Electronic Engineering (Q2, rank 397, percentile 60)

2023:

- ? Electrical and Electronic Engineering (Q2, rank 377, percentile 52)

- ? Instrumentation (Q3, rank 72, percentile 49)

? Source Id: 21100976671

? Author Ids: 56580140000;56580248800;35612596100;57197744325

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Gianoglio C.

24.

? Title: An approximate randomization-based neural network with dedicated digital architecture for energy-constrained devices

? Venue: Neural Computing and Applications

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 2

? DOI: 10.1007/s00521-022-08034-2

? Scopus ID: 2-s2.0-85142935817

? Issn: 09410643

? eISSN: 14333058

? Volume: 35

? Issue: 9

? Pages: 6753-6766

? Authors: Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo

? Keywords: Digital architectures | Extreme learning machine | FPGA | Low-power |

Random vector functional link networks | Randomization-based neural networks |

Threshold function

? Quartile:

2025:

? Software (Q1, rank 43, percentile 91)

? Artificial Intelligence (Q1, rank 57, percentile 88)

2023:

? Software (Q1, rank 42, percentile 89)

? Artificial Intelligence (Q1, rank 50, percentile 85)

? Source Id: 24800

? Author Ids: 56580248800;56580140000;7006338311;35612596100

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Ragusa E.

25.

? Title: Selecting Language Models Features VIA Software-Hardware Co-Design

? Venue: ICASSP IEEE International Conference on Acoustics Speech and Signal Processing Proceedings

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Icassp49357.2023.10097191

? Scopus ID: 2-s2.0-86000382999

? Issn: 15206149

? Volume: 2023-June

? Authors: Pandelea Vlad; Ragusa Edoardo; Gastaldo Paolo; Cambria Erik

? Keywords: Edge Computing | Evaluation Methodologies | Language Models | Opinion Mining / Sentiment Analysis

? Source Id: 110544

? Author Ids: 57214094763;56580248800;35612596100;56140547500

? Authoraffiliationids: 60005510;60025153;60025153;60005510

? Corresponding: Pandelea V.

26.

? Title: Affordance segmentation of hand-occluded containers from exocentric images

? Venue: Proceedings 2023 IEEE CvF International Conference on Computer Vision Workshops Iccvw 2023

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Iccvw60793.2023.00204

? Scopus ID: 2-s2.0-85182921732

? Pages: 1890-1899

? Authors: Apicella Tommaso; Xompero Alessio; Ragusa Edoardo; Berta Riccardo; Cavallaro Andrea; Gastaldo Paolo

? Keywords: Affordances | Computer vision | Convolutional Neural Networks | Hand occlusion

? Source Id: 21101197267

? Author Ids: 57216366806;57192089357;56580248800;6701751695;7103233230;35612596100

? Authoraffiliationids:

60025153-60022109;60022109;60025153;60025153;60022109-130746711-60028186;60025153

? Corresponding: Apicella T.

27.

? Title: A hardware-aware neural architecture search algorithm targeting low-end

microcontrollers

? Venue: Prime 2023 18th International Conference on Ph D Research in Microelectronics and Electronics Proceedings
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.1109/Prime58259.2023.10161736
? Scopus ID: 2-s2.0-85165096936
? Pages: 281-284
? Authors: Garavagno Andrea Mattia; Ragusa Edoardo; Frisoli Antonio; Gastaldo Paolo
? Keywords: Hardware Aware Neural Architecture Search | Lightweight Convolutional Neural Networks | Microcontrollers | TinyML | Visual Wake Words
? Source Id: 21101164803
? Author Ids: 57890031900;56580248800;6603070041;35612596100
? Authoraffiliationids: 60025153-60028039;60025153;60028039;60025153
? Corresponding: Garavagno A.M.

28.

? Title: Affordance Segmentation Using RGB-D Sensors for Application in Portable Embedded Systems
? Venue: Lecture Notes in Electrical Engineering
? Year: 2023
? Type: Book Series
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1007/978-3-031-30333-3_14
? Scopus ID: 2-s2.0-85161369827
? Issn: 18761100
? eISSN: 18761119
? Volume: 1036 Lnee
? Pages: 109-116
? Authors: Ragusa Edoardo; Ghezzi Matteo Pastorino; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Affordance prediction | CNNs | embedded systems | Grasp selection | prosthetics
? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
2023:
? Industrial and Manufacturing Engineering (Q4, rank 306, percentile 20)
? Source Id: 19700186822
? Author Ids: 56580248800;58308130900;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

29.

? Title: Text-Image Sentiment Analysis
? Venue: Lecture Notes in Computer Science Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics
? Year: 2023
? Type: Book Series
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1007/978-3-031-23804-8_14
? Scopus ID: 2-s2.0-85149915000
? Issn: 03029743

- ? eISSN: 16113349
? Volume: 13397 Lncs
? Pages: 169-180
? Authors: Chen Qian; Ragusa Edoardo; Chaturvedi Iti; Cambria Erik; Zunino Rodolfo
? Keywords: Sentiment analysis | Text-image joint | Weighted score
? Quartile:
2025:
? Theoretical Computer Science (Q3, rank 70, percentile 48)
? Computer Science (all) (Q3, rank 129, percentile 46)
2023:
? Computer Science (all) (Q3, rank 121, percentile 48)
? Theoretical Computer Science (Q3, rank 69, percentile 47)
? Source Id: 25674
? Author Ids: 57196048094;56580248800;12646151300;56140547500;7006338311
? Authoraffiliationids: 60078616;60025153;60078616;60078616;60025153
? Corresponding: Chen Q.
30.
? Title: Random Weights Neural Network for Low-Cost Readout of Colorimetric Reactions: Accurate Detection of Antioxidant Levels
? Venue: Lecture Notes in Networks and Systems
? Year: 2023
? Type: Book Series
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1007/978-3-031-16281-7_10
? Scopus ID: 2-s2.0-85138011595
? Issn: 23673370
? eISSN: 23673389
? Volume: 546 Lnns
? Pages: 95-104
? Authors: Ragusa Edoardo; Mastronardi Valentina; Pedone Deborah; Moglianetti Mauro; Pompa Pier Paolo; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Embedded systems | Point of care devices | Random weights neural networks
? Quartile:
2025:
? Signal Processing (Q3, rank 146, percentile 25)
? Computer Networks and Communications (Q3, rank 410, percentile 25)
? Control and Systems Engineering (Q4, rank 302, percentile 20)
2023:
? Signal Processing (Q4, rank 113, percentile 14)
? Control and Systems Engineering (Q4, rank 277, percentile 13)
? Computer Networks and Communications (Q4, rank 354, percentile 10)
? Source Id: 21100901469
? Author Ids:
56580248800;57219834370;56814858900;25825351300;7003705815;7006338311;35612596100
? Authoraffiliationids:
60025153;60102151;60102151;60102151-60332746;60102151;60025153;60025153
? Corresponding: Ragusa E.
31.
? Title: Design and Deployment of an Efficient Landing Pad Detector
? Venue: Lecture Notes in Networks and Systems
? Year: 2023
? Type: Book Series
? Subtype: Conference Paper

? Citations: 2
? Doi: 10.1007/978-3-031-16281-7_14
? Scopus ID: 2-s2.0-85137989940
? Issn: 23673370
? eISSN: 23673389
? Volume: 546 Lnns
? Pages: 137-147
? Authors: Albanese Andrea; Taccioli Tommaso; Apicella Tommaso; Brunelli Davide; Ragusa Edoardo
? Keywords: Autonomous Unmanned Aerial Vehicles | CNNs | Edge computing | Embedded systems
? Quartile:
2025:
? Signal Processing (Q3, rank 146, percentile 25)
? Computer Networks and Communications (Q3, rank 410, percentile 25)
? Control and Systems Engineering (Q4, rank 302, percentile 20)
2023:
? Signal Processing (Q4, rank 113, percentile 14)
? Control and Systems Engineering (Q4, rank 277, percentile 13)
? Computer Networks and Communications (Q4, rank 354, percentile 10)
? Source Id: 21100901469
? Author Ids: 57216363022;57388797900;57216366806;22233293600;56580248800
? Authoraffiliationids: 60015986;60025153;60025153;60015986;60025153
? Corresponding: Albanese A.

32.

? Title: Design of a Quantitative Readout in a Point-of-Care Device for Cisplatin Detection
? Venue: IEEE Sensors Letters
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 4
? Doi: 10.1109/Lsens.2022.3219628
? Scopus ID: 2-s2.0-85141613394
? eISSN: 24751472
? Volume: 6
? Issue: 11
? Authors: Ragusa Edoardo; Zunino Rodolfo; Mastronardi Valentina; Moglianetti Mauro; Pompa Pier P.; Gastaldo Paolo
? Keywords: automatic readout | machine learning (ML) | point-of-care (POC) devices | Sensor applications
? Quartile:
2025:
? Instrumentation (Q2, rank 70, percentile 63)
? Electrical and Electronic Engineering (Q2, rank 397, percentile 60)
2022:
? Instrumentation (Q2, rank 39, percentile 71)
? Electrical and Electronic Engineering (Q2, rank 233, percentile 68)
? Source Id: 21100976671
? Author Ids: 56580248800;7006338311;57219834370;25825351300;7003705815;35612596100
? Authoraffiliationids: 60025153;60025153;60102151;60102151;60025153;60025153
? Corresponding: Ragusa E.

33.

? Title: Toward hardware-aware deep-learning-based dialogue systems

? Venue: Neural Computing and Applications
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 6
? DOI: 10.1007/s00521-020-05530-1
? Scopus ID: 2-s2.0-85099088357
? Issn: 09410643
? eISSN: 14333058
? Volume: 34
? Issue: 13
? Pages: 10397-10408
? Authors: Pandelea Vlad; Ragusa Edoardo; Young Tom; Gastaldo Paolo; Cambria Erik
? Keywords: Artificial intelligence | Dialogue systems | Natural language processing
? Quartile:
2025:
? Software (Q1, rank 43, percentile 91)
? Artificial Intelligence (Q1, rank 57, percentile 88)
2022:
? Software (Q1, rank 47, percentile 88)
? Artificial Intelligence (Q1, rank 48, percentile 84)
? Source Id: 24800
? Author Ids: 57214094763;56580248800;57203267719;35612596100;56140547500
? Authoraffiliationids: 60078616;60025153;60078616;60025153;60078616
? Corresponding: Pandelea V.

34.

? Title: From a Chemotherapeutic Drug to a High-Performance Nanocatalyst: A Fast Colorimetric Test for Cisplatin Detection at ppb Level
? Venue: Biosensors
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 9
? DOI: 10.3390/bios12060375
? Scopus ID: 2-s2.0-85132311033
? eISSN: 20796374
? Volume: 12
? Issue: 6
? Authors: Mastronardi Valentina; Moglianetti Mauro; Ragusa Edoardo; Zunino Rodolfo; Pompa Pier Paolo
? Keywords: cisplatin | colorimetric test | machine learning | nanocatalyst | point-of-care
? Quartile:
2025:
? Instrumentation (Q1, rank 10, percentile 94)
? Engineering (miscellaneous) (Q1, rank 22, percentile 92)
? Clinical Biochemistry (Q1, rank 12, percentile 90)
? Analytical Chemistry (Q1, rank 16, percentile 90)
? Biomedical Engineering (Q1, rank 43, percentile 87)
? Biotechnology (Q1, rank 45, percentile 86)
2022:
? Engineering (miscellaneous) (Q1, rank 33, percentile 78)
? Instrumentation (Q2, rank 40, percentile 70)
? Analytical Chemistry (Q2, rank 54, percentile 62)

? Biomedical Engineering (Q2, rank 116, percentile 58)
? Biotechnology (Q2, rank 130, percentile 56)
? Clinical Biochemistry (Q3, rank 58, percentile 49)
? Source Id: 21100293900
? Author Ids: 57219834370;25825351300;56580248800;7006338311;7003705815
? Authoraffiliationids: 60102151;60102151;60025153;60025153;60102151
? Corresponding: Mastronardi V.

35.

? Title: Detection-based video surveillance using Deep Neural Networks on STM32 microcontroller
? Venue: Icecs 2022 29th IEEE International Conference on Electronics Circuits and Systems Proceedings
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1109/Icecs202256217.2022.9970956
? Scopus ID: 2-s2.0-85145358911
? Authors: Canepa Alessio; Ragusa Edoardo; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Computer Vision | Deep Learning | Embedded Systems | Surveillance
? Source Id: 21101129746
? Author Ids: 7004014399;56580248800;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Canepa A.

36.

? Title: A Pipelined Implementation of the n-mode Tensor-Matrix Multiplication
? Venue: Icecs 2022 29th IEEE International Conference on Electronics Circuits and Systems Proceedings
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Icecs202256217.2022.9970979
? Scopus ID: 2-s2.0-85145357032
? Authors: Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Valle Maurizio; Gastaldo Paolo
? Keywords: Digital Architectures | Low-Power | Multidimensional Array | Tensors
? Source Id: 21101129746
? Author Ids: 56580248800;56580140000;7006338311;57197744325;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

37.

? Title: A Data-Driven Method for Reliability Estimation of Auxiliary Power Consumption Prediction in Commercial Electric Vehicles
? Venue: Lecture Notes in Electrical Engineering
? Year: 2022
? Type: Book Series
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1007/978-3-030-95498-7_12
? Scopus ID: 2-s2.0-85128756334
? Issn: 18761100
? eISSN: 18761119
? Volume: 866 Lnee

? Pages: 86-92

? Authors: Apicella Tommaso; Ragusa Edoardo; Canepa Alessio; Gastaldo Paolo

? Keywords: BEV | Data-driven | ePTO | Reliability score

? Quartile:

2025:

? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)

2022:

? Industrial and Manufacturing Engineering (Q4, rank 295, percentile 17)

? Source Id: 19700186822

? Author Ids: 57216366806;56580248800;7004014399;35612596100

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Apicella T.

38.

? Title: Container Localisation And Mass Estimation With An Rgb-D Camera

? Venue: ICASSP IEEE International Conference on Acoustics Speech and Signal Processing Proceedings

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 6

? Doi: 10.1109/Icassp43922.2022.9747134

? Scopus ID: 2-s2.0-85126945611

? Issn: 15206149

? Volume: 2022-May

? Pages: 9152-9155

? Authors: Apicella Tommaso; Slavic Giulia; Ragusa Edoardo; Gastaldo Paolo; Marcenaro Lucio

? Keywords: Convolutional Neural Networks | Mass estimation | Object detection

? Source Id: 110544

? Author Ids: 57216366806;57218159779;56580248800;35612596100;6603377664

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Apicella T.

39.

? Title: A Novel Learning Strategy for the Trade-Off between Accuracy and Computational Cost: A Touch Modalities Classification Case Study

? Venue: IEEE Sensors Journal

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 16

? Doi: 10.1109/Jsen.2021.3129323

? Scopus ID: 2-s2.0-85120033492

? Issn: 1530437x

? eISSN: 15581748

? Volume: 22

? Issue: 1

? Pages: 659-670

? Authors: Gianoglio Christian; Ragusa Edoardo; Gastaldo Paolo; Valle Maurizio

? Keywords: Artificial intelligence for embedded devices | Loss function | Tactile sensing systems

? Quartile:

2025:

? Instrumentation (Q1, rank 27, percentile 85)

? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)

2022:

- ? Instrumentation (Q1, rank 14, percentile 90)
- ? Electrical and Electronic Engineering (Q1, rank 139, percentile 81)
- ? Source Id: 15047
- ? Author Ids: 56580140000;56580248800;35612596100;57197744325
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153
- ? Corresponding: Gianoglio C.

40.

- ? Title: Design and Deployment of an Image Polarity Detector with Visual Attention
- ? Venue: Cognitive Computation
- ? Year: 2022
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 16
- ? DOI: 10.1007/s12559-021-09829-6
- ? Scopus ID: 2-s2.0-85099752269
- ? Issn: 18669956
- ? eISSN: 18669964
- ? Volume: 14
- ? Issue: 1
- ? Pages: 261-273
- ? Authors: Ragusa Edoardo; Apicella Tommaso; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo
- ? Keywords: Convolutional neural network | Embedded systems | Image polarity detection
- ? Quartile:

2025:

- ? Cognitive Neuroscience (Q1, rank 7, percentile 94)
- ? Computer Vision and Pattern Recognition (Q1, rank 16, percentile 90)
- ? Computer Science Applications (Q1, rank 102, percentile 89)

2022:

- ? Computer Science Applications (Q1, rank 142, percentile 82)
- ? Cognitive Neuroscience (Q1, rank 21, percentile 81)
- ? Computer Vision and Pattern Recognition (Q1, rank 20, percentile 80)
- ? Source Id: 19400158515
- ? Author Ids: 56580248800;57216366806;56580140000;7006338311;35612596100
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
- ? Corresponding: Ragusa E.

41.

- ? Title: Online predictive maintenance monitoring adopting convolutional neural networks
- ? Venue: Energies
- ? Year: 2021
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 14
- ? DOI: 10.3390/en14154711
- ? Scopus ID: 2-s2.0-85112043577
- ? eISSN: 19961073
- ? Volume: 14
- ? Issue: 15
- ? Authors: Gianoglio Christian; Ragusa Edoardo; Gastaldo Paolo; Gallesi Federico; Guastavino Francesco
- ? Keywords: Convolutional neural networks | Partial discharges | Predictive maintenance
- ? Quartile:

2025:

- ? Control and Optimization (Q1, rank 11, percentile 94)
- ? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
- ? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
- ? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
- ? Fuel Technology (Q2, rank 40, percentile 70)
- ? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
- ? Energy (miscellaneous) (Q2, rank 39, percentile 64)

2021:

- ? Control and Optimization (Q1, rank 18, percentile 85)
- ? Engineering (miscellaneous) (Q1, rank 19, percentile 83)
- ? Subject (Q1, rank 51, percentile 76)
- ? Energy (miscellaneous) (Q2, rank 10, percentile 72)
- ? Electrical and Electronic Engineering (Q2, rank 201, percentile 71)
- ? Energy Engineering and Power Technology (Q2, rank 73, percentile 69)
- ? Fuel Technology (Q2, rank 38, percentile 65)
- ? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 58)

? Source Id: 62932

? Author Ids: 56580140000;56580248800;35612596100;57215699439;7006692709

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Gianoglio C.

42.

- ? Title: Emotion recognition on edge devices: Training and deployment
- ? Venue: Sensors
- ? Year: 2021
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 9
- ? DOI: 10.3390/s21134496
- ? Scopus ID: 2-s2.0-85108880961
- ? Issn: 14248220
- ? Volume: 21
- ? Issue: 13
- ? Authors: Pandelea Vlad; Ragusa Edoardo; Apicella Tommaso; Gastaldo Paolo; Cambria Erik
- ? Keywords: Deep learning | Embedded systems | Emotion recognition
- ? Quartile:

2025:

- ? Instrumentation (Q1, rank 19, percentile 90)
- ? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)
- ? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)
- ? Biochemistry (Q1, rank 72, percentile 84)
- ? Information Systems (Q1, rank 87, percentile 82)
- ? Analytical Chemistry (Q1, rank 30, percentile 82)

2021:

- ? Instrumentation (Q1, rank 12, percentile 91)
- ? Electrical and Electronic Engineering (Q1, rank 134, percentile 81)
- ? Atomic and Molecular Physics, and Optics (Q1, rank 42, percentile 79)
- ? Analytical Chemistry (Q1, rank 27, percentile 79)
- ? Information Systems (Q1, rank 77, percentile 78)
- ? Biochemistry (Q2, rank 145, percentile 66)

? Source Id: 130124

? Author Ids: 57214094763;56580248800;57216366806;35612596100;56140547500

? Authoraffiliationids: 60078616;60025153;60025153;60025153;60078616

? Corresponding: Pandelea V.

43.

? Title: Efficient Digital Implementation of n-mode Tensor-Matrix Multiplication
? Venue: 2021 IEEE 3rd International Conference on Artificial Intelligence Circuits and Systems Aicas 2021
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1109/Aicas51828.2021.9458404
? Scopus ID: 2-s2.0-85113339876
? Authors: Gianoglio Christian; Ragusa Edoardo; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Digital Architectures | Low-Power | Multidimensional Array | Tensors
? Source Id: 21101056807
? Author Ids: 56580140000;56580248800;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gianoglio C.

44.

? Title: Random-based networks with dropout for embedded systems
? Venue: Neural Computing and Applications
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 11
? DOI: 10.1007/s00521-020-05414-4
? Scopus ID: 2-s2.0-85093104100
? Issn: 09410643
? eISSN: 14333058
? Volume: 33
? Issue: 12
? Pages: 6511-6526
? Authors: Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Embedded systems | Internet of Things | Random-based neural networks
? Quartile:
2025:
? Software (Q1, rank 43, percentile 91)
? Artificial Intelligence (Q1, rank 57, percentile 88)
2021:
? Software (Q1, rank 58, percentile 85)
? Artificial Intelligence (Q1, rank 43, percentile 84)
? Source Id: 24800
? Author Ids: 56580248800;56580140000;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

45.

? Title: T-rexnet?a hardware-aware neural network for real-time detection of small moving objects
? Venue: Sensors Switzerland
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 9
? DOI: 10.3390/s21041252
? Scopus ID: 2-s2.0-85100595529

? Issn: 14248220
? Volume: 21
? Issue: 4
? Pages: 1-18
? Authors: Canepa Alessio; Ragusa Edoardo; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Neural networks | Object detection | Real-time | Surveillance
? Quartile:

2025:

? Instrumentation (Q1, rank 19, percentile 90)
? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)
? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)
? Biochemistry (Q1, rank 72, percentile 84)
? Information Systems (Q1, rank 87, percentile 82)
? Analytical Chemistry (Q1, rank 30, percentile 82)

2021:

? Instrumentation (Q1, rank 12, percentile 91)
? Electrical and Electronic Engineering (Q1, rank 134, percentile 81)
? Atomic and Molecular Physics, and Optics (Q1, rank 42, percentile 79)
? Analytical Chemistry (Q1, rank 27, percentile 79)
? Information Systems (Q1, rank 77, percentile 78)
? Biochemistry (Q2, rank 145, percentile 66)

? Source Id: 130124

? Author Ids: 7004014399;56580248800;7006338311;35612596100

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Canepa A.

46.

? Title: 1-D Convolutional Neural Networks for Touch Modalities Classification
? Venue: 2021 28th IEEE International Conference on Electronics Circuits and Systems
Icecs 2021 Proceedings
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 15
? Doi: 10.1109/Icecs53924.2021.9665576
? Scopus ID: 2-s2.0-85124619783
? Authors: Gianoglio Christian; Ragusa Edoardo; Zunino Rodolfo; Valle Maurizio
? Keywords: CNNs | embedded systems | Touch modalities classification
? Source Id: 21101075833
? Author Ids: 56580140000;56580248800;7006338311;57197744325
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gianoglio C.

47.

? Title: An Affordance Detection Pipeline for Resource-Constrained Devices
? Venue: 2021 28th IEEE International Conference on Electronics Circuits and Systems
Icecs 2021 Proceedings
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/Icecs53924.2021.9665447
? Scopus ID: 2-s2.0-85124616513
? Authors: Apicella Tommaso; Cavallaro Andrea; Berta Riccardo; Gastaldo Paolo; Bellotti Francesco; Ragusa Edoardo
? Keywords: affordance detection | CNNs | object detection | resource-constrained

? Source Id: 21101075833
? Author Ids: 57216366806;7103233230;6701751695;35612596100;55890888700;56580248800
? Authoraffiliationids: 60025153-60022109;60022109;60025153;60025153;60025153;60025153
? Corresponding: Apicella T.

48.

? Title: A pose-based hand image classification method retrainable on embedded target devices
? Venue: 2021 28th IEEE International Conference on Electronics Circuits and Systems
Icecs 2021 Proceedings
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Icecs53924.2021.9665637
? Scopus ID: 2-s2.0-85124589590
? Authors: Canepa Alessio; Ragusa Edoardo; Gianoglio Christian; Gastaldo Paolo; Zunino Rodolfo
? Keywords: Computer Vision | Deep Learning | Embedded Systems | Grasping
? Source Id: 21101075833
? Author Ids: 7004014399;56580248800;56580140000;35612596100;7006338311
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Canepa A.

49.

? Title: Hardware-Aware Affordance Detection for Application in Portable Embedded Systems
? Venue: IEEE Access
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 17
? Doi: 10.1109/Access.2021.3109733
? Scopus ID: 2-s2.0-85114728472
? eISSN: 21693536
? Volume: 9
? Pages: 123178-123193
? Authors: Ragusa Edoardo; Gianoglio Christian; Dosen Strahinja; Gastaldo Paolo
? Keywords: Affordance prediction | CNNs | embedded systems | prosthetics
? Quartile:
2025:
? Engineering (all) (Q1, rank 42, percentile 88)
? Computer Science (all) (Q1, rank 41, percentile 83)
? Materials Science (all) (Q1, rank 101, percentile 78)
2021:
? Engineering (all) (Q1, rank 28, percentile 90)
? Computer Science (all) (Q1, rank 34, percentile 85)
? Subject (Q1, rank 124, percentile 82)
? Materials Science (all) (Q1, rank 104, percentile 77)
? Source Id: 21100374601
? Author Ids: 56580248800;56580140000;23388778600;35612596100
? Authoraffiliationids: 60025153;60025153;60022134;60025153
? Corresponding: Ragusa E.

50.

? Title: Video Grasping Classification Enhanced with Automatic Annotations
? Venue: Lecture Notes in Electrical Engineering

- ? Year: 2021
? Type: Book Series
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1007/978-3-030-66729-0_3
? Scopus ID: 2-s2.0-85101757927
? Issn: 18761100
? eISSN: 18761119
? Volume: 738
? Pages: 23-29
? Authors: Ragusa Edoardo; Gianoglio Christian; Dalmonte Filippo; Gastaldo Paolo
? Keywords: CNNs | Embedded systems | Grasping classification | Prosthetics
? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
2021:
? Industrial and Manufacturing Engineering (Q4, rank 280, percentile 17)
? Source Id: 19700186822
? Author Ids: 56580248800;56580140000;57222170034;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.
51.
? Title: COAL: Convolutional Online Adaptation Learning for Opinion Mining
? Venue: IEEE International Conference on Data Mining Workshops Icdmw
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1109/Icdmw51313.2020.00012
? Scopus ID: 2-s2.0-85098765711
? Issn: 23759232
? eISSN: 23759259
? Volume: 2020-November
? Pages: 15-22
? Authors: Chaturvedi Iti; Ragusa Edoardo; Gastaldo Paolo; Cambria Erik
? Keywords: Domain Adaptation | Online SVM | Sentiment Prediction
? Quartile:
2025:
? Computer Science Applications (Q3, rank 648, percentile 33)
? Software (Q3, rank 343, percentile 31)
? Source Id: 21100398701
? Author Ids: 12646151300;56580248800;35612596100;56140547500
? Authoraffiliationids: 60019870;60025153;60025153;60078616
? Corresponding: Chaturvedi I.
52.
? Title: Image Polarity Detection on Resource-Constrained Devices
? Venue: IEEE Intelligent Systems
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 12
? Doi: 10.1109/Mis.2020.3011586
? Scopus ID: 2-s2.0-85089293993
? Issn: 15411672

- ? eISSN: 19411294
? Volume: 35
? Issue: 6
? Pages: 50-57
? Authors: Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo
? Quartile:
2025:
? Computer Networks and Communications (Q1, rank 46, percentile 91)
? Artificial Intelligence (Q1, rank 62, percentile 87)
2020:
? Computer Networks and Communications (Q1, rank 30, percentile 91)
? Artificial Intelligence (Q1, rank 28, percentile 87)
? Source Id: 110111
? Author Ids: 56580248800;56580140000;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.
53.
? Title: Balancing computational complexity and generalization ability: A novel design for ELM
? Venue: Neurocomputing
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 12
? DOI: 10.1016/j.neucom.2020.03.046
? Scopus ID: 2-s2.0-85083295650
? Issn: 09252312
? eISSN: 18728286
? Volume: 401
? Pages: 405-417
? Authors: Ragusa Edoardo; Gastaldo Paolo; Zunino Rodolfo; Cambria Erik
? Keywords: Electronic embedded systems | Extreme learning machine | Similarity functions
? Quartile:
2025:
? Cognitive Neuroscience (Q1, rank 10, percentile 92)
? Computer Science Applications (Q1, rank 124, percentile 87)
? Artificial Intelligence (Q1, rank 85, percentile 82)
2020:
? Cognitive Neuroscience (Q1, rank 6, percentile 94)
? Computer Science Applications (Q1, rank 51, percentile 92)
? Artificial Intelligence (Q1, rank 23, percentile 90)
? Source Id: 24807
? Author Ids: 56580248800;35612596100;7006338311;56140547500
? Authoraffiliationids: 60025153;60025153;60025153;60078616
? Corresponding: Ragusa E.
54.
? Title: Improving the Robustness of Threshold-Based Single Hidden Layer Neural Networks via Regularization
? Venue: Proceedings 2020 IEEE International Conference on Artificial Intelligence Circuits and Systems Aicas 2020
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper

? Citations: 4
? Doi: 10.1109/Aicas48895.2020.9073976
? Scopus ID: 2-s2.0-85085040599
? Pages: 276-280
? Authors: Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo
? Source Id: 21100983105
? Author Ids: 56580248800;56580140000;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

55.

? Title: An hardware-aware image polarity detector enhanced with visual attention
? Venue: Proceedings of the International Joint Conference on Neural Networks
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/IJCNN48605.2020.9206826
? Scopus ID: 2-s2.0-85093846854
? Authors: Ragusa Edoardo; Apicella Tommaso; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo
? Keywords: CNN | embedded systems | image polarity detection
? Source Id: 96537
? Author Ids: 56580248800;57216366806;56580140000;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

56.

? Title: A Design Strategy for the Efficient Implementation of Random Basis Neural Networks on Resource-Constrained Devices
? Venue: Neural Processing Letters
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 18
? DOI: 10.1007/s11063-019-10165-y
? Scopus ID: 2-s2.0-85076624919
? Issn: 13704621
? eISSN: 1573773X
? Volume: 51
? Issue: 2
? Pages: 1611-1629
? Authors: Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo
? Keywords: CPLD | Digital architectures | FPGA | Random basis networks | Threshold function
? Quartile:

2025:

? Computer Networks and Communications (Q1, rank 110, percentile 79)
? Software (Q1, rank 105, percentile 79)
? Artificial Intelligence (Q1, rank 117, percentile 76)
? Neuroscience (all) (Q2, rank 29, percentile 74)

2020:

? Computer Networks and Communications (Q2, rank 102, percentile 69)
? Artificial Intelligence (Q2, rank 91, percentile 60)
? Software (Q2, rank 159, percentile 59)
? Neuroscience (all) (Q3, rank 61, percentile 45)

? Source Id: 24806
? Author Ids: 56580248800;56580140000;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

57.

? Title: Unsupervised monitoring system for predictive maintenance of high voltage apparatus
? Venue: Energies
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 8
? DOI: 10.3390/en13051109
? Scopus ID: 2-s2.0-85081613972
? eISSN: 19961073
? Volume: 13
? Issue: 5
? Authors: Gianoglio Christian; Ragusa Edoardo; Bruzzone Andrea; Gastaldo Paolo; Zunino Rodolfo; Guastavino Francesco
? Keywords: Embedded systems | Partial discharges | Predictive maintenance

? Quartile:

2025:

? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)

2020:

? Control and Optimization (Q1, rank 17, percentile 85)
? Engineering (miscellaneous) (Q1, rank 13, percentile 83)
? Electrical and Electronic Engineering (Q2, rank 183, percentile 73)
? Energy (miscellaneous) (Q2, rank 7, percentile 72)
? Energy Engineering and Power Technology (Q2, rank 62, percentile 72)
? Fuel Technology (Q2, rank 33, percentile 67)
? Renewable Energy, Sustainability and the Environment (Q2, rank 69, percentile 64)

? Source Id: 62932

? Author Ids: 56580140000;56580248800;58402050900;35612596100;7006338311;7006692709
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Gianoglio C.

58.

? Title: Unsupervised Monitoring System for Predictive Maintenance of High Voltage Apparatus
? Venue: Lecture Notes in Electrical Engineering
? Year: 2020
? Type: Book Series
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1007/978-3-030-37277-4_35
? Scopus ID: 2-s2.0-85083298062
? Issn: 18761100
? eISSN: 18761119
? Volume: 627

? Pages: 301-307
? Authors: Gianoglio Christian; Bruzzone Andrea; Ragusa Edoardo; Gastaldo Paolo
? Keywords: Embedded systems | Partial discharges | Predictive maintenance

? Quartile:
2025:
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
2020:
? Industrial and Manufacturing Engineering (Q4, rank 268, percentile 20)
? Source Id: 19700186822
? Author Ids: 56580140000;58402050900;56580248800;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gianoglio C.

59.
? Title: Data-driven video grasping classification for low-power embedded system
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems
Icecs 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/Icecs46596.2019.8964645
? Scopus ID: 2-s2.0-85079182347
? Pages: 871-874
? Authors: Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo
? Keywords: CNNs | Embedded systems | Grasping classification | Prosthetics
? Source Id: 21100944554
? Author Ids: 56580248800;56580140000;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

60.
? Title: A computationally light pruning strategy for single layer neural networks
based on threshold function
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems
Icecs 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Icecs46596.2019.8964894
? Scopus ID: 2-s2.0-85079179021
? Pages: 89-92
? Authors: Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Embedded systems | Neural networks | Threshold function
? Source Id: 21100944554
? Author Ids: 56580248800;56580140000;7006338311;35612596100
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

61.
? Title: Cognitive Insights into Sentic Spaces Using Principal Paths
? Venue: Cognitive Computation
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 9

? DOI: 10.1007/s12559-019-09651-1
? Scopus ID: 2-s2.0-85069176199
? ISSN: 18669956
? eISSN: 18669964
? Volume: 11
? Issue: 5
? Pages: 656-675
? Authors: Ragusa Edoardo; Gastaldo Paolo; Zunino Rodolfo; Ferrarotti Marco Jacopo; Rocchia Walter; Decherchi Sergio
? Keywords: Affective computing | Concept embedding | Sentiment analysis | Topological analysis
? Quartile:
2025:
? Cognitive Neuroscience (Q1, rank 7, percentile 94)
? Computer Vision and Pattern Recognition (Q1, rank 16, percentile 90)
? Computer Science Applications (Q1, rank 102, percentile 89)
2019:
? Computer Science Applications (Q1, rank 60, percentile 90)
? Cognitive Neuroscience (Q1, rank 10, percentile 90)
? Computer Vision and Pattern Recognition (Q1, rank 12, percentile 86)
? Source Id: 19400158515
? Author Ids: 56580248800;35612596100;7006338311;56543455500;6603344433;23090052400
? Authoraffiliationids: 60025153;60025153;60025153;60102151;60102151;60102151
? Corresponding: Ragusa E.

62.

? Title: Tensor based algorithm for automatic partial discharges pattern classification
? Venue: 2019 21st European Conference on Power Electronics and Applications EPE 2019 Ecce Europe
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.23919/Epe.2019.8915039
? Scopus ID: 2-s2.0-85076701659
? Authors: Gianoglio Christian; Ragusa Edoardo; Bruzzone Andrea; Gastaldo Paolo; Torello Eugenia; Guastavino Francesco
? Keywords: Artificial Intelligence | Diagnostics | Insulation | Noise
? Source Id: 21100939561
? Author Ids: 56580140000;56580248800;58402050900;35612596100;6701506640;7006692709
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Gianoglio C.

63.

? Title: A survey on deep learning in image polarity detection: Balancing generalization performances and computational costs
? Venue: Electronics Switzerland
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 30
? DOI: 10.3390/electronics8070783
? Scopus ID: 2-s2.0-85071026354
? eISSN: 20799292
? Volume: 8
? Issue: 7

? Authors: Ragusa Edoardo; Cambria Erik; Zunino Rodolfo; Gastaldo Paolo
? Keywords: Computing resources | Convolutional neural networks | Deep learning | Image polarity detection | Transfer learning
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
2019:
? Electrical and Electronic Engineering (Q3, rank 376, percentile 43)
? Computer Networks and Communications (Q3, rank 173, percentile 43)
? Control and Systems Engineering (Q3, rank 142, percentile 41)
? Signal Processing (Q3, rank 64, percentile 38)
? Hardware and Architecture (Q3, rank 109, percentile 30)
? Source Id: 21100829272
? Author Ids: 56580248800;56140547500;7006338311;35612596100
? Authoraffiliationids: 60025153;60078616;60025153;60025153
? Corresponding: Ragusa E.

64.
? Title: Learning with Similarity Functions: a Tensor-Based Framework
? Venue: Cognitive Computation
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 12
? DOI: 10.1007/s12559-018-9590-9
? Scopus ID: 2-s2.0-85053384656
? Issn: 18669956
? eISSN: 18669964
? Volume: 11
? Pages: 31-49
? Authors: Ragusa Edoardo; Gastaldo Paolo; Zunino Rodolfo; Cambria Erik
? Keywords: Intelligent embedded systems | Similarity functions | Tensor data | Tensor-based learning
? Quartile:
2025:
? Cognitive Neuroscience (Q1, rank 7, percentile 94)
? Computer Vision and Pattern Recognition (Q1, rank 16, percentile 90)
? Computer Science Applications (Q1, rank 102, percentile 89)
2019:
? Computer Science Applications (Q1, rank 60, percentile 90)
? Cognitive Neuroscience (Q1, rank 10, percentile 90)
? Computer Vision and Pattern Recognition (Q1, rank 12, percentile 86)
? Source Id: 19400158515
? Author Ids: 56580248800;35612596100;7006338311;56140547500
? Authoraffiliationids: 60025153;60025153;60025153;60078616
? Corresponding: Ragusa E.

65.
? Title: Hardware Friendly Neural Network for the PD Classification
? Venue: Annual Report Conference on Electrical Insulation and Dielectric Phenomena
CEIDP
? Year: 2018

? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Doi: 10.1109/Ceidp.2018.8544825
? Scopus ID: 2-s2.0-85059743044
? Issn: 00849162
? Volume: 2018-October
? Pages: 538-541

? Authors: Gianoglio C.; Guastavino F.; Ragusa E.; Bruzzone A.; Torello E.
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 691, percentile 30)
? Electronic, Optical and Magnetic Materials (Q4, rank 238, percentile 23)
? Source Id: 18789
? Author Ids: 56580140000;7006692709;56580248800;58402050900;6701506640
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Gianoglio C.

66.

? Title: A digital implementation of extreme learning machines for resource-constrained devices
? Venue: IEEE Transactions on Circuits and Systems II Express Briefs
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 26
? Doi: 10.1109/Tcsii.2018.2806085
? Scopus ID: 2-s2.0-85042122677
? Issn: 15497747
? eISSN: 15583791
? Volume: 65
? Issue: 8
? Pages: 1104-1108
? Authors: Ragusa Edoardo; Gianoglio Christian; Gastaldo Paolo; Zunino Rodolfo
? Keywords: CPLD | digital architectures | extreme learning machine | FPGA | Neural networks | threshold function
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 97, percentile 90)
2018:
? Electrical and Electronic Engineering (Q1, rank 137, percentile 79)
? Source Id: 9500153930
? Author Ids: 56580248800;56580140000;35612596100;7006338311
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ragusa E.

67.

? Title: Bayesian network based extreme learning machine for subjectivity detection
? Venue: Journal of the Franklin Institute
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 149
? DOI: 10.1016/j.jfranklin.2017.06.007
? Scopus ID: 2-s2.0-85024868159
? Issn: 00160032

? Volume: 355
? Issue: 4
? Pages: 1780-1797
? Authors: Chaturvedi Iti; Ragusa Edoardo; Gastaldo Paolo; Zunino Rodolfo; Cambria Erik
? Quartile:
2025:
? Applied Mathematics (Q1, rank 59, percentile 91)
? Signal Processing (Q1, rank 39, percentile 80)
? Computer Networks and Communications (Q1, rank 134, percentile 75)
? Control and Systems Engineering (Q1, rank 94, percentile 75)
2018:
? Applied Mathematics (Q1, rank 22, percentile 95)
? Control and Systems Engineering (Q1, rank 35, percentile 85)
? Computer Networks and Communications (Q1, rank 45, percentile 84)
? Signal Processing (Q1, rank 18, percentile 82)
? Source Id: 27959
? Author Ids: 12646151300;56580248800;35612596100;7006338311;56140547500
? Authoraffiliationids: 60078616;60025153;60025153;60025153;60078616
? Corresponding: Chaturvedi I.

68.

? Title: Learning with similarity functions: A novel design for the extreme learning machine
? Venue: Neurocomputing
? Year: 2017
? Type: Journal
? Subtype: Article
? Citations: 14
? DOI: 10.1016/j.neucom.2016.05.116
? Scopus ID: 2-s2.0-85014115331
? Issn: 09252312
? eISSN: 18728286
? Volume: 261
? Pages: 37-49
? Authors: Gastaldo P.; Bisio F.; Gianoglio C.; Ragusa E.; Zunino R.
? Keywords: Extreme learning machine | Similarity functions | Single-layer feedforward neural networks
? Quartile:

2025:

? Cognitive Neuroscience (Q1, rank 10, percentile 92)
? Computer Science Applications (Q1, rank 124, percentile 87)
? Artificial Intelligence (Q1, rank 85, percentile 82)

2017:

? Computer Science Applications (Q1, rank 62, percentile 89)
? Artificial Intelligence (Q1, rank 22, percentile 88)
? Cognitive Neuroscience (Q1, rank 21, percentile 77)

? Source Id: 24807

? Author Ids: 35612596100;55547779800;56580140000;56580248800;7006338311
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Gastaldo P.

69.

? Title: Spam detection of Twitter traffic: A framework based on random forests and non-uniform feature sampling
? Venue: Proceedings of the 2016 IEEE ACM International Conference on Advances in Social Networks Analysis and Mining Asonam 2016

? Year: 2016
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 18
? Doi: 10.1109/Asonam.2016.7752331
? Scopus ID: 2-s2.0-85006742027
? Pages: 811-817
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