

## 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

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? Page: <https://rubrica.unige.it/personale/VkZFWFxh>

? 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/iccwv60793.2023.00204

? 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/Ijcn48605.2020.9206826  
? 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; Bruzzzone 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  
 ? Authors: Meda Claudia; Ragusa Edoardo; Gianoglio Christian; Zunino Rodolfo; Ottaviano Augusto; Scillia Eugenio; Surlinelli Roberto  
 ? Keywords: Automated Tools | Cyber Security | Social Network Analysis | Spam detection  
 ? Source Id: 21100789853  
 ? Author Ids:  
 56685186400;56580248800;56580140000;7006338311;56022476000;56023174500;36702235700  
 ? Authoraffiliationids:  
 60025153;60025153;60025153;60025153;116509853;116509853;116509853  
 ? Corresponding: Meda C.

70.

? Title: Low-complexity digital architecture for solving the point location problem in explicit Model Predictive Control  
 ? Venue: Journal of the Franklin Institute  
 ? Year: 2015  
 ? Type: Journal  
 ? Subtype: Article  
 ? Citations: 7  
 ? DOI: 10.1016/j.jfranklin.2015.03.018  
 ? Scopus ID: 2-s2.0-84929294126  
 ? Issn: 00160032  
 ? Volume: 352  
 ? Issue: 6  
 ? Pages: 2249-2258  
 ? Authors: Oliveri Alberto; Gianoglio Christian; Ragusa Edoardo; Storace Marco  
 ? 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)  
 2015:  
 ? Applied Mathematics (Q1, rank 36, percentile 91)  
 ? Control and Systems Engineering (Q1, rank 33, percentile 84)  
 ? Computer Networks and Communications (Q1, rank 43, percentile 81)  
 ? Signal Processing (Q1, rank 17, percentile 81)  
 ? Source Id: 27959  
 ? Author Ids: 57200399832;56580140000;56580248800;7004134087  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153  
 ? Corresponding: Oliveri A.