

# VALLE MAURIZIO

## Overview

- ? Unit: ICT
- ? Role: Professore ordinario
- ? Grade: Prof.Ordinario Legge 240/10 - t.pieno - classe 2
- ? SSD: IINF-01/A (Elettronica)
- ? Scopus ID: 57197744325
- ? Unige Id: 054045
- ? Retrieved at: 2025-11-14T15:16:44.163945

## Contact

- ? Email: maurizio.valle@unige.it
- ? Phone: +39 010 33 52775
- ? Page: <https://rubrica.unige.it/personale/VUZDW15s>
- ? Locations: Opera Pia - padiglione D (ED161450401), 3° piano, US161450401.III.012

## Career

- ? Pa, 2012-05-01 ? 2019-11-30
- ? Po, 2019-12-01 ? 2222-02-02

## Responsibilities

- ? Title: Coordinatore del dottorato di ricerca
  - ? Unit: Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN
  - ? Period: 2023-11-01 ? 2026-10-31
- ? Title: Coordinatore del dottorato di ricerca
  - ? Unit: Dipartimento di ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN
  - ? Period: 2024-11-01 ? 2027-10-31

## Teaching

2025

- ? Digital Systems (114748), Lm-29 - Electronic Engineering
- ? Electronic Devices (114745), Lm-29 - Electronic Engineering

2024

- ? Elettronica (72344), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione
- ? Digital Systems (114748), Lm-29 - Electronic Engineering

2023

- ? Digital Systems (106773), Lm-29 - Ingegneria Elettronica
- ? Elettronica (72344), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione

2022

- ? Microelectronics (106786), Lm-29 - Ingegneria Elettronica
- ? Digital Systems (106773), Lm-29 - Ingegneria Elettronica
- ? Elettronica (72344), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione

2021

- ? Digital Systems (106773), Lm-29 - Ingegneria Elettronica
- ? Microelectronics (106786), Lm-29 - Ingegneria Elettronica

2020

- ? I.E.S. And Elect. Waves Mod.B (66150), Lm-29 - Ingegneria Elettronica
- ? Microelectronics Mod. B (72446), Lm-29 - Ingegneria Elettronica
- ? Distributed Electronic Systems And Technologies For Environmental Monitoring (94631), Lm-26 - Engineering For Natural Risk Management

#### Scopus Metrics

- ? absolute; Docs: 264; Journals: 90; Conferences: 139; Citations: 5464; H-index: 31
- ? 15 years (2010-2025); Docs: 183; Journals: 61; Conferences: 90; Citations: 4438; H-index: 25
- ? 10 years (2015-2025); Docs: 138; Journals: 46; Conferences: 68; Citations: 1304; H-index: 20
- ? 05 years (2020-2025); Docs: 73; Journals: 24; Conferences: 28; Citations: 467; H-index: 12

#### Scopus Products

1.
  - ? Title: Combining Neural Architecture Search and Weight Reshaping for Optimized Embedded Classifiers in Multisensory Glove
  - ? Venue: Sensors
  - ? Year: 2025
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 0
  - ? DOI: 10.3390/s25196142
  - ? Scopus ID: 2-s2.0-105018909614
  - ? eISSN: 14248220
  - ? Volume: 25
  - ? Issue: 19
  - ? Authors: Al Youssef Hiba; Awada Sara; Raad Mohamad; Valle Maurizio; Ibrahim Ali
  - ? Keywords: multisensory glove | Neural Architecture Search | quantization | weight reshaping
  - ? 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)
  - ? Source Id: 130124
  - ? Author Ids: 57193087616;59706873900;55853578100;57197744325;57199654883
  - ? Authoraffiliationids: 60112476-60025153;60112476;60112476;60025153;60112476
  - ? Corresponding: Al Youssef H.
2.
  - ? Title: FPGA Implementation of a Convolutional Recurrent Neural Network for Real-Time Sensor Data Processing
  - ? Venue: Lecture Notes in Electrical Engineering
  - ? Year: 2025
  - ? Type: Book Series
  - ? Subtype: Conference Paper
  - ? Citations: 0
  - ? Doi: 10.1007/978-3-031-71518-1\_30
  - ? Scopus ID: 2-s2.0-85216019993

? Issn: 18761100  
? eISSN: 18761119  
? Volume: 1263 Lnee  
? Pages: 258-265  
? Authors: Testa Riccardo; Yaacoub Mohamad; Gianoglio Christian; Valle Maurizio  
? Keywords: Artificial Skin | Field Programmable Gate Array (FPGA) | Tiny Machine Learning  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
? Source Id: 19700186822  
? Author Ids: 58637653600;58763723900;56580140000;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Testa R.

3.  
? Title: On-Edge 1-D Convolutional Neural Network for Hand-Gesture Classification  
? Venue: Lecture Notes in Electrical Engineering

? Year: 2025  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1007/978-3-031-71518-1\_56  
? Scopus ID: 2-s2.0-85216008557  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 1263 Lnee  
? Pages: 462-467  
? Authors: Shebly Daniella; Ali Haydar Al Haj; Yaacoub Mohamad; Chibli Hussein; Valle Maurizio; Gianoglio christian  
? Keywords: embedded system | hand gestures recognition | Real-time classification  
? Quartile:

2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
? Source Id: 19700186822  
? Author Ids: 59526780600;57889924900;58763723900;59527648400;57197744325;56580140000  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774;60025153;60025153  
? Corresponding: Shebly D.

4.  
? Title: Pilot Study: Experimental Analysis of PVDF Sensors Response to Slippage  
? Venue: Lecture Notes in Electrical Engineering

? Year: 2025  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1007/978-3-031-71518-1\_27  
? Scopus ID: 2-s2.0-85215991833  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 1263 Lnee  
? Pages: 238-243  
? Authors: Khalifeh Razan; Gianoglio Christian; Abbass Yahya; Valle Maurizio  
? Keywords: Object manipulation | PVDF sensors | slippage | tactile sensing system  
? Quartile:  
2025:

- ? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
  - ? Source Id: 19700186822
  - ? Author Ids: 59526819900;56580140000;57211312886;57197744325
  - ? Authoraffiliationids: 60025153;60025153;60025153;60025153
  - ? Corresponding: Khalifeh R.
- 5.
- ? Title: Investigating Cutaneous Mechanoreceptors for Neuromorphic Tactile Texture Classification
  - ? Venue: Lecture Notes in Electrical Engineering
  - ? Year: 2025
  - ? Type: Book Series
  - ? Subtype: Conference Paper
  - ? Citations: 0
  - ? Doi: 10.1007/978-3-031-71518-1\_55
  - ? Scopus ID: 2-s2.0-85215987223
  - ? Issn: 18761100
  - ? eISSN: 18761119
  - ? Volume: 1263 Lnee
  - ? Pages: 456-461
  - ? Authors: Ali Haydar Al Haj; Abbass Yahya; Gianoglio Christian; Valle Maurizio
  - ? Keywords: computational cost | mechanoreceptors | Tactile sensing system
  - ? Quartile:  
2025:
    - ? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)
  - ? Source Id: 19700186822
  - ? Author Ids: 57889924900;57211312886;56580140000;57197744325
  - ? Authoraffiliationids: 60025153;60025153;60025153;60025153
  - ? Corresponding: Ali H.A.H.
- 6.
- ? Title: A Case Study: FMG-based Gesture Recognition using High-Density Piezoelectric Electronic Skin and Machine Learning
  - ? Venue: IEEE Sensors Letters
  - ? Year: 2025
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 0
  - ? Doi: 10.1109/Lsens.2025.3624027
  - ? Scopus ID: 2-s2.0-105019975852
  - ? eISSN: 24751472
  - ? Authors: Abbass Yahya; Montenegro Silvana Miranda; Egle Fabio; Saleh Moustafa; Valle Maurizio; Castellini Claudio
  - ? Keywords: Force Myography (FMG) | gesture recognition | human-machine interfaces | piezoelectric sensors | wearable sensors
  - ? Quartile:  
2025:
    - ? Instrumentation (Q2, rank 70, percentile 63)
    - ? Electrical and Electronic Engineering (Q2, rank 397, percentile 60)
  - ? Source Id: 21100976671
  - ? Author Ids: 57211312886;60157679500;57972143500;57204771075;57197744325;8957778700
  - ? Authoraffiliationids: 60025153;60000765;60000765;60112476;60025153;60000765-60007798
  - ? Corresponding: Abbass Y.
- 7.
- ? Title: Real-Time Object Recognition Based on Parallel Ultra-Low-Power Microcontroller: A case study on Multisensory Glove

- ? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/lscas56072.2025.11044209  
? Scopus ID: 2-s2.0-105010656392  
? Issn: 02714310  
? Authors: Testa Riccardo; Yaacoub Mohamad; Gianoglio Christian; Valle Maurizio  
? Keywords: latency | Machine learning | microcontroller | power consumption | wearable systems  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
? Source Id: 56190  
? Author Ids: 58637653600;58763723900;56580140000;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Testa R.
8.  
? Title: Hardness and Texture Recognition based on PVDF Sensors and Embedded Machine Learning: A case study on Hannes prosthetic hand  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/lscas56072.2025.11043586  
? Scopus ID: 2-s2.0-105010647373  
? Issn: 02714310  
? Authors: Khalifeh Razan; Abbass Yahya; Yaacoub Mohamad; Gentile Cosimo; Gruppioni Emanuele; Valle Maurizio  
? Keywords: Hardness recognition | Machine learning | Prosthetic hand | PVDF sensors | Texture recognition  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
? Source Id: 56190  
? Author Ids: 59526819900;57211312886;58763723900;57190120721;34167885100;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;100743990;100743990;60025153  
? Corresponding: Khalifeh R.
9.  
? Title: Enhancing Motor Control and Feedback in Prosthetic Hands Through Piezoelectric Tactile Sensors: A Comprehensive Methodological Approach  
? Venue: Biosystems and Biorobotics  
? Year: 2025  
? Type: Book Series  
? Subtype: Book Chapter  
? Citations: 0  
? Doi: 10.1007/978-3-031-85000-4\_4  
? Scopus ID: 2-s2.0-105002599793  
? Issn: 21953562  
? eISSN: 21953570  
? Volume: 34  
? Pages: 15-18

? Authors: Bassal H.; Abbass Y.; Valle M.

? Quartile:

2025:

? Artificial Intelligence (Q4, rank 435, percentile 12)

? Mechanical Engineering (Q4, rank 663, percentile 9)

? Biomedical Engineering (Q4, rank 317, percentile 5)

? Source Id: 21100826748

? Author Ids: 59231473100;57211312886;57197744325

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Bassal H.

10.

? Title: Data Glove System: Real-Time Resistance Classification with Embedded Machine Learning

? Venue: Lecture Notes in Electrical Engineering

? Year: 2025

? Type: Book Series

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1007/978-3-031-84100-2\_67

? Scopus ID: 2-s2.0-105000822312

? Issn: 18761100

? eISSN: 18761119

? Volume: 1369 Lnee

? Pages: 563-570

? Authors: Yaacoub Mohamad; Vanlaeres Matthias; Shebly Daniella; Valle Maurizio; Gianoglio Christian

? Keywords: Data glove | machine learning (ML) | TinyML | wearable system

? Quartile:

2025:

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

? Source Id: 19700186822

? Author Ids: 58763723900;59706037600;59526780600;57197744325;56580140000

? Authoraffiliationids: 60025153;60104653;60025153-60068774;60025153;60025153

? Corresponding: Yaacoub M.

11.

? Title: Neuromorphic Tactile Sensing System for Textural Features Classification

? Venue: IEEE Sensors Journal

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 8

? Doi: 10.1109/Jsen.2024.3382369

? Scopus ID: 2-s2.0-85189829907

? Issn: 1530437x

? eISSN: 15581748

? Volume: 24

? Issue: 10

? Pages: 17193-17207

? Authors: Al Haj Ali Haydar; Abbass Yahya; Gianoglio Christian; Ibrahim Ali; Oh Changjae; Valle Maurizio

? Keywords: Gratings | recurrent spiking neural network (RSNN) | refractory period | spatiotemporal | tactile sensing system | textural features

? Quartile:

2025:

? Instrumentation (Q1, rank 27, percentile 85)  
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)  
2024:  
? Instrumentation (Q1, rank 20, percentile 88)  
? Electrical and Electronic Engineering (Q1, rank 143, percentile 85)  
? Source Id: 15047  
? Author Ids: 57889924900;57211312886;56580140000;57199654883;55391262000;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60112476-60025153;60022109;60025153  
? Corresponding: Al Haj Ali H.

12.  
? Title: On Edge Human Action Recognition Using Radar-Based Sensing and Deep Learning  
? Venue: IEEE Transactions on Industrial Informatics  
? Year: 2024  
? Type: Journal  
? Subtype: Article  
? Citations: 12  
? Doi: 10.1109/Tii.2023.3316164  
? Scopus ID: 2-s2.0-85174843792  
? Issn: 15513203  
? eISSN: 19410050  
? Volume: 20  
? Issue: 3  
? Pages: 4160-4172  
? Authors: Gianoglio Christian; Mohanna Ammar; Rizik Ali; Moroney Laurence; Valle Maurizio  
? Keywords: Action recognition | deep neural networks (DNNs) | edge deployment | frequency-modulated continuous wave (FMCW) radar  
? 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: 56580140000;57427666800;57214804817;57225033999;57197744325  
? Authoraffiliationids: 60025153;130370585;60012259;60006191;60025153  
? Corresponding: Gianoglio C.

13.  
? Title: On Edge Pinch Force Classification Using IMU Sensors and Convolutional Neural Networks  
? 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/Icecs61496.2024.10848891  
? Scopus ID: 2-s2.0-85217622442  
? Issn: 29945755

? eISSN: 29950589  
? Authors: Shebly Daniella; Gianoglio Christian; Haj Ali Haydar Al; Chible Hussein; Yaacoub Mohamad; Valle Maurizio  
? Keywords: 2D-Convolutional Neural Network | Inertial Measurement Unit (IMU) | Resistivity Classification  
? 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: 59526780600;56580140000;57889924900;7801443090;58763723900;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774;60025153;60025153  
? Corresponding: Shebly D.

14.  
? Title: Multisensory Wearable Glove for Object Recognition Based Embedded Machine Learning  
? Venue: Proceedings of the IEEE International Conference on Electronics Circuits and Systems  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Icecs61496.2024.10848876  
? Scopus ID: 2-s2.0-85217621983  
? Issn: 29945755  
? eISSN: 29950589  
? Authors: Yaacoub Mohamad; Al Haj Ali Haydar; Gianoglio Christian; Valle Maurizio; Ibrahim Ali  
? Keywords: embedded machine learning | object recognition | Wearable glove  
? 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: 58763723900;57889924900;56580140000;57197744325;57199654883  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60112476  
? Corresponding: Yaacoub M.

15.  
? Title: Biomimetic Tactile Sensing for Hannes Anthropomorphic Prosthetic Hand  
? 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/Icecs61496.2024.10848734  
? Scopus ID: 2-s2.0-85217616480  
? Issn: 29945755  
? eISSN: 29950589  
? Authors: Bassal Hussein; Boccardo Nicolo; Abbass Yahya; Laffranchi Matteo; Valle Maurizio  
? Keywords: Fast Adaptive | Piezoelectric | Prosthetics | Tactile

? 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: 59231473100;57191479373;57211312886;35409513900;57197744325

? Authoraffiliationids: 60025153;60015623-60102151;60025153;60102151;60015623

? Corresponding: Bassal H.

16.

? Title: Hardness Discrimination Using Piezoelectric-Based Biomimetic Tactile Sensor and Machine Learning

? Venue: IEEE Sensors Letters

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 4

? Doi: 10.1109/Lsens.2024.3431430

? Scopus ID: 2-s2.0-85199361260

? eISSN: 24751472

? Volume: 8

? Issue: 8

? Authors: Bassal Hussein; Abbass Yahya; Gianoglio Christian; Valle Maurizio

? Keywords: hardness discrimination | machine learning (ML) | Sensor systems | signal processing | tactile information | tactile sensing

? 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: 59231473100;57211312886;56580140000;57197744325

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Bassal H.

17.

? Title: Texture Perception Using Tactile Sensing Glove Based on PVDF Sensors and Machine Learning

? Venue: IEEE Sensors Letters

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 9

? Doi: 10.1109/Lsens.2024.3418500

? Scopus ID: 2-s2.0-85197096868

? eISSN: 24751472

? Volume: 8

? Issue: 7

? Authors: Abbass Yahya; Gianoglio Christian; Ali Haydar Al Haj; Saleh Moustafa; Valle Maurizio

? Keywords: machine learning (ML) | Sensor systems | tactile sensing glove | textural features | texture discrimination | wearable sensing systems

? 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: 57211312886;56580140000;57889924900;57204771075;57197744325

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

? Corresponding: Abbass Y.

18.

? Title: Alessandro De Gloria, a Pioneer in Electronic Engineering Applications

? Venue: Lecture Notes in Electrical Engineering

? Year: 2024

? Type: Book Series

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1007/978-3-031-48121-5\_1

? Scopus ID: 2-s2.0-85184097329

? Issn: 18761100

? eISSN: 18761119

? Volume: 1110 Lnee

? Pages: 3-11

? Authors: Bellotti Francesco; Bricco Elisa; Bruzzone Agostino; Caviglia Daniele; Di Zitti Ermanno; Gastaldo Paolo; Grosso Daniele; Magnani Lauro; Olivieri Mauro; Raggio Marco; Valle Maurizio; Verri Alessandro; Berta Riccardo

? Keywords: Cultural heritage | Electronic engineering | Electronic system applications | Embedded systems | Higher education | Machine learning | Virtual reality

? 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: 55890888700;26033809300;7003901555;7004012654;6603663623;35612596100;5719

2394949;55548461500;57794378700;8573253200;57197744325;57193129975;6701751695

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153;60032350;60025153;60025153;60025153;60025153

? Corresponding: Bellotti F.

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/lcecs61496.2024.10848931

? 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: Embedded real-time objects? hardness classification for robotic grippers

? Venue: Future Generation Computer Systems

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 26

? DOI: 10.1016/j.future.2023.06.002

? Scopus ID: 2-s2.0-85162218592

? Issn: 0167739x

? Volume: 148

? Pages: 211-224

? Authors: Amin Youssef; Gianoglio Christian; Valle Maurizio

? Keywords: Hardness classification | Machine learning | Resource-constrained devices | Robotic grippers | Tactile sensing

? 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)

2023:

? Computer Networks and Communications (Q1, rank 8, percentile 98)

? Hardware and Architecture (Q1, rank 5, percentile 97)

? Software (Q1, rank 17, percentile 95)

? Source Id: 12264

? Author Ids: 57223977236;56580140000;57197744325

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Amin Y.

21.

? 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.

22.

? Title: Workspace Scaling in Virtual Reality based Robot Teleoperation

? Venue: ACM International Conference Proceeding Series

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 3

? Doi: 10.1145/3582700.3582717

? Scopus ID: 2-s2.0-85150375788

? Pages: 98-104

? Authors: Omarali Bukeikhan; Javaid Shafiq; Valle Maurizio; Farkhatdinov Ildar

? Keywords: human-operator's perception | robot teleoperation | virtual reality

? Source Id: 11600154611

? Author Ids: 57188837733;58147060800;57197744325;24482891800

? Authoraffiliationids: 60022109;60022109;60025153;60022109

? Corresponding: Omarali B.

23.

? Title: FPGA-Based Tactile Sensory Platform with Optical Fiber Data Link for Feedback Systems in Prosthetics

? Venue: Electronics Switzerland

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 4

? DOI: 10.3390/electronics12030627

? Scopus ID: 2-s2.0-85147879295

? eISSN: 20799292

? Volume: 12

? Issue: 3

? Authors: Di Patrizio Stanchieri Guido; Saleh Moustafa; De Marcellis Andrea; Ibrahim Ali; Faccio Marco; Valle Maurizio; Palange Elia

? Keywords: FPGA platform | optical fiber links | prosthetic applications | tactile sensory feedback systems

? 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)

2023:

? Control and Systems Engineering (Q2, rank 94, percentile 70)

? Electrical and Electronic Engineering (Q2, rank 244, percentile 69)

? Computer Networks and Communications (Q2, rank 139, percentile 64)

- ? Hardware and Architecture (Q2, rank 64, percentile 64)  
? Signal Processing (Q2, rank 49, percentile 62)  
? Source Id: 21100829272  
? Author Ids:  
57191657351;57204771075;23975554000;57199654883;7003775870;57197744325;6701392461  
? Authoraffiliationids:  
60018783;60025153;60018783;60025153-60112476;60018783;60025153;60018783  
? Corresponding: Di Patrizio Stanchieri G.
24.  
? Title: Pilot Study: Response of a Piezoelectric Polymer based Sensing system to Indentation  
? Venue: Proceedings of IEEE Sensors  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Sensors56945.2023.10325161  
? Scopus ID: 2-s2.0-85179753846  
? Issn: 19300395  
? eISSN: 21689229  
? Authors: Yaacoub Mohamad; Abbass Yahya; Gianoglio Christian; Seminara Lucia; Valle Maurizio  
? Keywords: PVDF sensors | Signal analysis | Signal processing | Tactile sensing systems  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 687, percentile 31)  
2023:  
? Electrical and Electronic Engineering (Q4, rank 602, percentile 24)  
? Source Id: 74882  
? Author Ids: 58763723900;57211312886;56580140000;19338029900;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Yaacoub M.
25.  
? Title: Assessment of Recurrent Spiking Neural Networks on Neuromorphic Accelerators for Naturalistic Texture Classification  
? Venue: Prime 2023 18th International Conference on Ph D Research in Microelectronics and Electronics Proceedings  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Prime58259.2023.10161772  
? Scopus ID: 2-s2.0-85165065793  
? Pages: 285-288  
? Authors: Ali Haydar Al Haj; Dabbous Ali; Ibrahim Ali; Valle Maurizio  
? Keywords: Electronic Skin | Energy Consumption | Hardware Efficiency | Naturalistic Textures | Neuromorphic computing | Surrogate Gradient  
? Source Id: 21101164803  
? Author Ids: 57889924900;57225054424;57199654883;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153-60112476;60025153  
? Corresponding: Ali H.A.H.
26.  
? Title: Resource-Constrained Implementation of Deep Learning Algorithms for Dynamic

Touch Modality Classification

? 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\_11

? Scopus ID: 2-s2.0-85138002157

? Issn: 23673370

? eISSN: 23673389

? Volume: 546 Lnns

? Pages: 105-115

? Authors: Al Haj Ali Haydar; Gianoglio Christian; Ibrahim Ali; Valle Maurizio

? Keywords: Computational cost | Convolutional neural networks | Embedded neural networks | Recurrent neural networks | Tactile sensing system

? 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: 57889924900;56580140000;57199654883;57197744325

? Authoraffiliationids: 60025153;60025153;60025153-60112476;60025153

? Corresponding: Al Haj Ali H.

27.

? Title: Towards a Trade-off Between Accuracy and Computational Cost for Embedded Systems: A Tactile Sensing System for Object Classification

? Venue: Lecture Notes in Networks and Systems

? Year: 2023

? Type: Book Series

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1007/978-3-031-16281-7\_15

? Scopus ID: 2-s2.0-85138000375

? Issn: 23673370

? eISSN: 23673389

? Volume: 546 Lnns

? Pages: 148-159

? Authors: Amin Youssef; Gianoglio Christian; Valle Maurizio

? Keywords: Artificial intelligence for embedded devices | Computational load | Object classification | Tactile sensing 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: 57223977236;56580140000;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Amin Y.
- 28.
- ? Title: Embedded Implementation of Signal Pre-processing for Tactile Sensing System  
? Venue: Lecture Notes in Networks and Systems  
? Year: 2023  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1007/978-3-031-16281-7\_69  
? Scopus ID: 2-s2.0-85137988812  
? Issn: 23673370  
? eISSN: 23673389  
? Volume: 546 Lnns  
? Pages: 727-736  
? Authors: Saleh Moustafa; Abbass Yahya; Valle Maurizio  
? Keywords: Embedded implementation | Filtering methods | Signal processing | Tactile sensing system  
? 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: 57204771075;57211312886;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Saleh M.
- 29.
- ? Title: Feed-Forward SNN for Touch Modality Prediction  
? Venue: Lecture Notes in Networks and Systems  
? Year: 2023  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1007/978-3-031-16281-7\_21  
? Scopus ID: 2-s2.0-85137977891  
? Issn: 23673370  
? eISSN: 23673389  
? Volume: 546 Lnns  
? Pages: 215-222  
? Authors: Dabbous Ali; Ibrahim Ali; Valle Maurizio  
? Keywords: Brian2 simulator | Neuromorphic hardware | Spiking neural network | Tactile sensing system | Touch modality  
? 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: 57225054424;57199654883;57197744325
- ? Authoraffiliationids: 60025153;60025153-60112476;60025153
- ? Corresponding: Dabbous A.

30.

- ? Title: A Novel Tactile Sensing System for Robotic Tactile Perception of Object Properties
- ? Venue: Lecture Notes in Electrical Engineering
- ? Year: 2023
- ? Type: Book Series
- ? Subtype: Conference Paper
- ? Citations: 2
- ? Doi: 10.1007/978-3-031-08136-1\_28
- ? Scopus ID: 2-s2.0-85134327989
- ? Issn: 18761100
- ? eISSN: 18761119
- ? Volume: 918 Lnee
- ? Pages: 182-187
- ? Authors: Amin Youssef; Gianoglio Christian; Valle Maurizio
- ? Keywords: Hardness recognition | Human?Robot interactions | Robot tactile sensors | Tactile sensing systems | Tactile sensors
- ? 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: 57223977236;56580140000;57197744325
- ? Authoraffiliationids: 60025153;60025153;60025153
- ? Corresponding: Amin Y.

31.

- ? Title: Experimental Assessment of Moving Targets Localization Performance Based on Angle of Arrival and RSSI
  - ? Venue: Lecture Notes in Electrical Engineering
  - ? Year: 2023
  - ? Type: Book Series
  - ? Subtype: Conference Paper
  - ? Citations: 0
  - ? Doi: 10.1007/978-3-031-08136-1\_52
  - ? Scopus ID: 2-s2.0-85134289800
  - ? Issn: 18761100
  - ? eISSN: 18761119
  - ? Volume: 918 Lnee
  - ? Pages: 340-349
  - ? Authors: Mohanna Ammar; Valle Maurizio; Cardinali Fabrizio
  - ? Keywords: Bluetooth low energy | Moving target localization | Received signal strength indication
  - ? 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: 57427666800;57197744325;6701897705
- ? Authoraffiliationids: 60025153;60025153;128371108
- ? Corresponding: Mohanna A.

32.

- ? Title: Spiking Neural Network Based on Threshold Encoding For Texture Recognition
- ? Venue: Icecs 2022 29th IEEE International Conference on Electronics Circuits and Systems Proceedings
- ? Year: 2022
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 3
- ? Doi: 10.1109/Icecs202256217.2022.9971099
- ? Scopus ID: 2-s2.0-85145347889
- ? Authors: Ali Haydar Al Haj; Dabbous Ali; Ibrahim Ali; Valle Maurizio
- ? Keywords: Event-driven | Neuromorphic | Spatio-temporal | spiking neural network | Tactile perception
- ? Source Id: 21101129746
- ? Author Ids: 57889924900;57225054424;57199654883;57197744325
- ? Authoraffiliationids: 60025153;60025153;60025153-60112476;60025153
- ? Corresponding: Ali H.A.H.

33.

- ? Title: A Convolutional Neural Network-Based Method for Discriminating Shadowed Targets in Frequency-Modulated Continuous-Wave Radar Systems
- ? Venue: Sensors

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 6

? DOI: 10.3390/s22031048

? Scopus ID: 2-s2.0-85123528519

? Issn: 14248220

? Volume: 22

? Issue: 3

? Authors: Mohanna Ammar; Gianoglio Christian; Rizik Ali; Valle Maurizio

? Keywords: CNN | Machine learning | Radar | Shadow effect | Transfer learning

? 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)

2022:

- ? Instrumentation (Q1, rank 18, percentile 87)
- ? Electrical and Electronic Engineering (Q1, rank 146, percentile 80)
- ? Atomic and Molecular Physics, and Optics (Q1, rank 47, percentile 77)
- ? Analytical Chemistry (Q1, rank 32, percentile 77)
- ? Information Systems (Q1, rank 87, percentile 77)
- ? Biochemistry (Q2, rank 151, percentile 64)

? Source Id: 130124

- ? Author Ids: 57427666800;56580140000;57214804817;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Mohanna A.
34.  
? Title: Objects Classification based on Hand Grasping in Virtual Reality Environment  
? Venue: 2022 International Conference on Smart Systems and Power Management Ic2spm 2022  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Ic2spm56638.2022.9988797  
? Scopus ID: 2-s2.0-85146427715  
? Pages: 187-190  
? Authors: Ibrahim Ali; Hajj-Hassan Mohamad; Fares Hoda; Valle Maurizio  
? Keywords: Deep Neural Networks | Hand Grasping | Machine Learning | Mujoco Haptix | Object Classification | Virtual Reality  
? Source Id: 21101131731  
? Author Ids: 57199654883;57222722482;57197743964;57197744325  
? Authoraffiliationids: 60112476;60112476;60025153;60025153  
? Corresponding: Ibrahim A.
35.  
? Title: A Pipelined Implementation of the n-mode Tensor-Matrix Multiplication  
? Venue: Iicecs 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.
36.  
? Title: Object Contact Shape Classification Using Neuromorphic Spiking Neural Network with STDP Learning  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Iscas48785.2022.9937733  
? Scopus ID: 2-s2.0-85142506247  
? Issn: 02714310  
? Volume: 2022-May  
? Pages: 1052-1056  
? Authors: Dabbous Ali; Ibrahim Ali; Alameh Mohamad; Valle Maurizio; Bartolozzi Chiara  
? Keywords: event driven sensing | intelligent tactile sensors | neuromorphic | Shape classification | spiking neural network | Tactile perception

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2022:

? Electrical and Electronic Engineering (Q3, rank 476, percentile 35)

? Source Id: 56190

? Author Ids: 57225054424;57199654883;57191244155;57197744325;22940171400

? Authoraffiliationids: 60025153-60102151;60025153;60025153;60025153;60102151

? Corresponding: Dabbous A.

37.

? Title: Neuromorphic capacitive tactile sensors inspired by slowly adaptive mechanoreceptors

? Venue: 20th IEEE International Interregional Newcas Conference Newcas 2022 Proceedings

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5

? Doi: 10.1109/Newcas52662.2022.9841988

? Scopus ID: 2-s2.0-85138716340

? Pages: 119-123

? Authors: Janotte Ella; Bamford Simeon; Richter Ole; Valle Maurizio; Bartolozzi Chiara

? Keywords: Asynchronous CMOS 180-nm technology | Capacitive | Event-driven tactile sensor | Leaky integrate and fire neuron | Neuromorphic circuits

? Source Id: 21101109732

? Author Ids: 57216898147;24824190400;57188735223;57197744325;22940171400

? Authoraffiliationids: 60102151-60010023;60102151;60010023;60025153;60102151

? Corresponding: Janotte E.

38.

? Title: Tactile Classification of Object Materials for Virtual Reality based Robot Teleoperation

? Venue: Proceedings IEEE International Conference on Robotics and Automation

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 7

? Doi: 10.1109/Icra46639.2022.9811825

? Scopus ID: 2-s2.0-85136326630

? Issn: 10504729

? Volume: 2022-January

? Pages: 9288-9294

? Authors: Omarali Bukeikhan; Palermo Francesca; Althoefer Kaspar; Valle Maurizio; Farkhatdinov Ildar

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 242, percentile 75)

? Control and Systems Engineering (Q2, rank 97, percentile 74)

? Software (Q2, rank 146, percentile 70)

? Artificial Intelligence (Q2, rank 155, percentile 68)

2022:

? Electrical and Electronic Engineering (Q1, rank 155, percentile 79)

? Control and Systems Engineering (Q1, rank 65, percentile 77)

? Software (Q2, rank 111, percentile 72)

? Artificial Intelligence (Q2, rank 90, percentile 70)

? Source Id: 25456

? Author Ids: 57188837733;57197794750;6701489118;57197744325;24482891800

? Authoraffiliationids:

60022109-60025153;60022109-60020413;60022109;60025153;60022109-60015150

? Corresponding: Omarali B.

39.

? Title: Full-hand electrotactile feedback using electronic skin and matrix electrodes for high-bandwidth human-machine interfacing

? Venue: Philosophical Transactions of the Royal Society A Mathematical Physical and Engineering Sciences

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 15

? DOI: 10.1098/rsta.2021.0017

? Scopus ID: 2-s2.0-85131825117

? Issn: 1364503x

? Volume: 380

? Issue: 2228

? Authors: Abbass Yahya; Dosen Strahinja; Seminara Lucia; Valle Maurizio

? Keywords: electronic skin | electrotactile stimulation | sensory feedback system |

tactile sensors | teleoperation

? Quartile:

2025:

? Mathematics (all) (Q1, rank 12, percentile 97)

? Engineering (all) (Q1, rank 50, percentile 85)

? Physics and Astronomy (all) (Q1, rank 38, percentile 84)

2022:

? Mathematics (all) (Q1, rank 7, percentile 98)

? Engineering (all) (Q1, rank 26, percentile 91)

? Physics and Astronomy (all) (Q1, rank 29, percentile 88)

? Source Id: 29784

? Author Ids: 57211312886;23388778600;19338029900;57197744325

? Authoraffiliationids: 60025153;60022134;60025153;60025153

? Corresponding: Abbass Y.

40.

? Title: Convolutional Neural Networks Based Tactile Object Recognition for Tactile Sensing System

? Venue: Lecture Notes in Electrical Engineering

? Year: 2022

? Type: Book Series

? Subtype: Conference Paper

? Citations: 3

? Doi: 10.1007/978-3-030-95498-7\_39

? Scopus ID: 2-s2.0-85128781406

? Issn: 18761100

? eISSN: 18761119

? Volume: 866 Lnee

? Pages: 280-285

? Authors: Ibrahim Ali; Ali Haydar Hajj; Hassan Mohamad Hajj; Valle Maurizio

? 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: 57199654883;57889924900;57614055600;57197744325  
? Authoraffiliationids: 60112476-60025153;60025153;128023867;60025153  
? Corresponding: Ibrahim A.
- 41.
- ? Title: Approximate Computing Circuits for Embedded Tactile Data Processing  
? Venue: Electronics Switzerland  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? DOI: 10.3390/electronics11020190  
? Scopus ID: 2-s2.0-85122399961  
? eISSN: 20799292  
? Volume: 11  
? Issue: 2  
? Authors: Osta Mario; Ibrahim Ali; Valle Maurizio  
? Keywords: Approximate computing | Digital multiplier | Embedded machine learning | FPGA | Singular Value Decomposition | Tactile data processing | Tensorial kernel  
? 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)  
2022:  
? Control and Systems Engineering (Q2, rank 92, percentile 68)  
? Electrical and Electronic Engineering (Q2, rank 248, percentile 66)  
? Computer Networks and Communications (Q2, rank 129, percentile 66)  
? Signal Processing (Q2, rank 48, percentile 61)  
? Hardware and Architecture (Q2, rank 68, percentile 60)  
? Source Id: 21100829272  
? Author Ids: 57197747347;57199654883;57197744325  
? Authoraffiliationids: 60025153;60025153-60112476;60025153  
? Corresponding: Osta M.
- 42.
- ? 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.

43.

? Title: A Shallow Neural Network for Real-Time Embedded Machine Learning for Tensorial Tactile Data Processing

? Venue: IEEE Transactions on Circuits and Systems I Regular Papers

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 8

? Doi: 10.1109/Tcsi.2021.3102303

? Scopus ID: 2-s2.0-85116242641

? Issn: 15498328

? eISSN: 15580806

? Volume: 68

? Issue: 10

? Pages: 4232-4244

? Authors: Younes Hamoud; Ibrahim Ali; Rizk Mostafa; Valle Maurizio

? Keywords: Embedded machine learning | FPGA | neural networks | real-time | singular value decomposition | tactile sensors | tensorial kernel

? Quartile:

2025:

? Engineering (all) (Q1, rank 28, percentile 92)

2021:

? Subject (Q1, rank 106, percentile 85)

? Subject (Q1, rank 32, percentile 81)

? Source Id: 11000153733

? Author Ids: 57204100434;57199654883;37091339400;57197744325

? Authoraffiliationids: 60025153;60025153;60112476;60025153

? Corresponding: Younes H.

44.

? Title: Embedded Electrotactile Feedback System for Hand Prostheses Using Matrix Electrode and Electronic Skin

? Venue: IEEE Transactions on Biomedical Circuits and Systems

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 32

? Doi: 10.1109/Tbcas.2021.3107723

? Scopus ID: 2-s2.0-85113837903

? Issn: 19324545

? eISSN: 19409990

? Volume: 15

? Issue: 5

- ? Pages: 912-925  
? Authors: Abbass Yahya; Saleh Moustafa; Dosen Strahinja; Valle Maurizio  
? Keywords: Electronic skin | electrotactile stimulation | prosthetic hand | sensory feedback system | tactile sensors  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 111, percentile 88)  
? Biomedical Engineering (Q1, rank 64, percentile 80)  
2021:  
? Electrical and Electronic Engineering (Q1, rank 66, percentile 90)  
? Biomedical Engineering (Q1, rank 29, percentile 88)  
? Source Id: 5700191219  
? Author Ids: 57211312886;57204771075;23388778600;57197744325  
? Authoraffiliationids: 60025153;60025153;60022134;60025153  
? Corresponding: Abbass Y.
45.  
? Title: Efficient FPGA Implementation of Approximate Singular Value Decomposition based on Shallow Neural Networks  
? Venue: 2021 IEEE 3rd International Conference on Artificial Intelligence Circuits and Systems Aicas 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Aicas51828.2021.9458453  
? Scopus ID: 2-s2.0-85113320500  
? Authors: Younes Hamoud; Ibrahim Ali; Rizk Mostafa; Valle Maurizio  
? Keywords: Approximate Computing | Embedded Systems | FPGA | High-Level Synthesis | Neural Networks | SVD  
? Source Id: 21101056807  
? Author Ids: 57204100434;57199654883;37091339400;57197744325  
? Authoraffiliationids: 60025153;60025153;60112476;60025153  
? Corresponding: Younes H.
46.  
? Title: Touch Modality Classification Using Recurrent Neural Networks  
? Venue: IEEE Sensors Journal  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 27  
? Doi: 10.1109/Jsen.2021.3055565  
? Scopus ID: 2-s2.0-85100470601  
? Issn: 1530437x  
? eISSN: 15581748  
? Volume: 21  
? Issue: 8  
? Pages: 9983-9993  
? Authors: Alameh Mohamad; Abbass Yahya; Ibrahim Ali; Moser Gabriele; Valle Maurizio  
? Keywords: deep learning | recurrent neural network | tactile data classification | Tactile sensing systems  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 27, percentile 85)  
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)

2021:

- ? Instrumentation (Q1, rank 14, percentile 90)
- ? Electrical and Electronic Engineering (Q1, rank 147, percentile 79)
- ? Source Id: 15047
- ? Author Ids: 57191244155;57211312886;57199654883;7101795745;57197744325
- ? Authoraffiliationids: 60025153;60025153;60025153-60112476;60025153;60025153
- ? Corresponding: Alameh M.

47.

- ? Title: Algorithmic-level approximate tensorial svm using high-level synthesis on fpga
- ? Venue: Electronics Switzerland
- ? Year: 2021
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 19
- ? DOI: 10.3390/electronics10020205
- ? Scopus ID: 2-s2.0-85100038627
- ? eISSN: 20799292
- ? Volume: 10
- ? Issue: 2
- ? Pages: 1-12
- ? Authors: Younes Hamoud; Ibrahim Ali; Rizk Mostafa; Valle Maurizio
- ? Keywords: Approximate computing | Embedded machine learning | High-level synthesis | Tactile sensing | Tensorial kernels

? 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)

2021:

- ? Electrical and Electronic Engineering (Q2, rank 280, percentile 60)
- ? Computer Networks and Communications (Q2, rank 146, percentile 59)
- ? Control and Systems Engineering (Q2, rank 110, percentile 59)
- ? Signal Processing (Q2, rank 51, percentile 56)
- ? Hardware and Architecture (Q2, rank 75, percentile 55)

? Source Id: 21100829272

? Author Ids: 57204100434;57199654883;37091339400;57197744325

? Authoraffiliationids: 60025153-60112476;60025153-60112476;60112476;60025153

? Corresponding: Younes H.

48.

- ? Title: An Efficient Selection-Based kNN Architecture for Smart Embedded Hardware Accelerators
- ? Venue: IEEE Open Journal of Circuits and Systems
- ? Year: 2021
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 18
- ? Doi: 10.1109/Ojcas.2021.3108835
- ? Scopus ID: 2-s2.0-85132261018
- ? eISSN: 26441225
- ? Volume: 2
- ? Pages: 534-545
- ? Authors: Younes Hamoud; Ibrahim Ali; Rizk Mostafa; Valle Maurizio

? Keywords: Approximate computing | embedded implementation | energy efficiency | fPGA | hardware accelerators | high level synthesis | k-nearest neighbor | real-Time processing | tactile sensing

? Quartile:

2025:

? Signal Processing (Q2, rank 70, percentile 64)

? Electrical and Electronic Engineering (Q2, rank 380, percentile 61)

? Electronic, Optical and Magnetic Materials (Q3, rank 157, percentile 49)

? Source Id: 21101222651

? Author Ids: 57204100434;57199654883;37091339400;57197744325

? Authoraffiliationids: 60025153-60112476;60025153-60112476;60112476;60025153

? Corresponding: Younes H.

49.

? 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.

50.

? Title: Hybrid Fixed-point/Binary Convolutional Neural Network Accelerator for Real-time Tactile Processing

? Venue: 2021 28th IEEE International Conference on Electronics Circuits and Systems

Icecs 2021 Proceedings

? Year: 2021

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Icecs53924.2021.9665586

? Scopus ID: 2-s2.0-85124608112

? Authors: Younes Hamoud; Ibrahim Ali; Rizk Mostafa; Valle Maurizio

? Keywords: Binary Neural Networks (BNN) | Convolutional Neural Networks (CNN) | FPGA | Hardware Accelerators | Quantization | Tactile Processing

? Source Id: 21101075833

? Author Ids: 57204100434;57199654883;37091339400;57197744325

? Authoraffiliationids: 60025153-60112476;60025153-60112476;60112476-60105670;60025153

? Corresponding: Younes H.

51.

? Title: Computationally Light Algorithms for Tactile Sensing Signals Elaboration and Classification

? Venue: 2021 28th IEEE International Conference on Electronics Circuits and Systems

Icecs 2021 Proceedings

? Year: 2021

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5  
? Doi: 10.1109/Icecs53924.2021.9665554  
? Scopus ID: 2-s2.0-85124601241  
? Authors: Amin Youssef; Gianoglio Christian; Valle Maurizio  
? Keywords: Classification | Computational load | hardness recognition | Neural networks | Signal processing | Tactile sensing systems | Tactile sensors  
? Source Id: 21101075833  
? Author Ids: 57223977236;56580140000;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Amin Y.

52.  
? Title: Touch Modality Classification using Spiking Neural Networks and Supervised-STDP Learning  
? Venue: 2021 28th IEEE International Conference on Electronics Circuits and Systems  
Icecs 2021 Proceedings  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Icecs53924.2021.9665453  
? Scopus ID: 2-s2.0-85124582756  
? Authors: Dabbous Ali; Ibrahim Ali; Valle Maurizio; Bartolozzi Chiara  
? Keywords: LIF | SNN | STDP | tactile sensors | Touch Modality  
? Source Id: 21101075833  
? Author Ids: 57225054424;57199654883;57197744325;22940171400  
? Authoraffiliationids: 60025153-60102151;60025153;60025153;60102151  
? Corresponding: Dabbous A.

53.  
? Title: Novel Wearable Tactile Feedback System for post-stroke Rehabilitation  
? Venue: Biocas 2021 IEEE Biomedical Circuits and Systems Conference Proceedings  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 6  
? DOI: 10.1109/BioCAS49922.2021.9645020  
? Scopus ID: 2-s2.0-85124187953  
? Authors: Abbass Yahya; Seminara Lucia; Saleh Moustafa; Valle Maurizio  
? Keywords: electrotactile stimulation | sensory feedback system | tactile glove | wearable electronics  
? Source Id: 21101075303  
? Author Ids: 57211312886;19338029900;57204771075;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Abbass Y.

54.  
? Title: A mixed-precision binary neural network architecture for touch modality classification  
? Venue: Smacd Prime 2021 International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design and 16th Conference on Phd Research in Microelectronics and Electronics  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Scopus ID: 2-s2.0-85117402466

? Pages: 296-299  
? Authors: Younes Hamoud; Ibrahim Ali; Rizk Mostafa; Valle Maurizio  
? Keywords: Binary neural networks (BNN) | Convolutional neural networks (CNN) | Quantization | Touch modality  
? Source Id: 21101062106  
? Author Ids: 57204100434;57199654883;37091339400;57197744325  
? Authoraffiliationids: 60025153-60112476;60025153-60112476;60112476-60068774;60025153  
? Corresponding: Younes H.

55.

? Title: Workspace Scaling and Rate Mode Control for Virtual Reality based Robot Teleoperation  
? Venue: Conference Proceedings IEEE International Conference on Systems Man and Cybernetics  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 7  
? Doi: 10.1109/Smc52423.2021.9658796  
? Scopus ID: 2-s2.0-85117212440  
? Issn: 1062922x  
? Pages: 607-612  
? Authors: Omarali Bukeikhan; Althoefer Kaspar; Mastrogiovanni Fulvio; Valle Maurizio; Farkhatdinov Ildar  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 643, percentile 35)  
? Control and Systems Engineering (Q3, rank 257, percentile 32)  
? Human-Computer Interaction (Q4, rank 155, percentile 19)  
? Source Id: 145097  
? Author Ids: 57188837733;6701489118;56962745700;57197744325;24482891800  
? Authoraffiliationids: 60022109-60025153;60022109;60025153;60025153;60022109  
? Corresponding: Omarali B.

56.

? Title: Artificial bio-inspired tactile receptive fields for edge orientation classification  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? Doi: 10.1109/lscas51556.2021.9401749  
? Scopus ID: 2-s2.0-85109048450  
? Issn: 02714310  
? Volume: 2021-May  
? Authors: Dabbous A.; Mastella M.; Natarajan A.; Chicca E.; Valle M.; Bartolozzi C.  
? Keywords: Neuromorphic | Receptive fields | SDSP | Skin | Touch  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2021:  
? Electrical and Electronic Engineering (Q3, rank 419, percentile 40)  
? Source Id: 56190  
? Author Ids: 57225054424;57216869341;57192868794;6506936943;57197744325;22940171400  
? Authoraffiliationids: 60025153-60102151;60010023;60019647;60010023;60025153;60102151

- ? Corresponding: Dabbous A.
- 57.
- ? Title: Efficient machine learning algorithm for embedded tactile data processing
  - ? Venue: Proceedings IEEE International Symposium on Circuits and Systems
  - ? Year: 2021
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 5
  - ? Doi: 10.1109/lscas51556.2021.9401429
  - ? Scopus ID: 2-s2.0-85109009265
  - ? Issn: 02714310
  - ? Volume: 2021-May
  - ? Authors: Saleh Moustafa; Ibrahim Ali; Menichelli Francesco; Mohanna Yasser; Valle Maurizio
  - ? Keywords: Algorithm optimization | Computational complexity | Embedded machine learning | Real-time operation
  - ? Quartile:
- 2025:
- ? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
- 2021:
- ? Electrical and Electronic Engineering (Q3, rank 419, percentile 40)
- ? Source Id: 56190
- ? Author Ids: 57204771075;57199654883;36883495100;16042986100;57197744325
- ? Authoraffiliationids: 60025153-60068774;60025153-60112476;60032350;60068774;60025153
- ? Corresponding: Saleh M.
- 58.
- ? Title: Introduction to the Special Issue on the 2nd IEEE International Conference on Artificial Intelligence Circuits and Systems (AICAS 2020)
  - ? Venue: IEEE Journal on Emerging and Selected Topics in Circuits and Systems
  - ? Year: 2020
  - ? Type: Journal
  - ? Subtype: Editorial
  - ? Citations: 2
  - ? Doi: 10.1109/Jetcas.2020.3040581
  - ? Scopus ID: 2-s2.0-85097830103
  - ? Issn: 21563357
  - ? eISSN: 21563365
  - ? Volume: 10
  - ? Issue: 4
  - ? Pages: 403-405
  - ? Authors: Serrano-Gotarredona Teresa; Valle Maurizio; Conti Francesco; Li Hai
  - ? Quartile:
- 2025:
- ? Electrical and Electronic Engineering (Q1, rank 105, percentile 89)
- 2020:
- ? Electrical and Electronic Engineering (Q1, rank 80, percentile 88)
- ? Source Id: 19700201678
- ? Author Ids: 7004314421;57197744325;56866491400;57204886743
- ? Authoraffiliationids: 60023841;60025153;60028218;60140102
- ? Corresponding: Serrano-Gotarredona T.
- 59.
- ? Title: Electronic skin: Sensors and systems
  - ? Venue: Electronic Skin Sensors and Systems
  - ? Year: 2020

? Type: Book  
? Subtype: Book  
? Citations: 1  
? Scopus ID: 2-s2.0-85106642029  
? Pages: 1-274  
? Authors: Ibrahim Ali; Valle Maurizio  
? Keywords: Efficient algorithms for smart tactile sensors | Electronic skin system | Electronic skin system applications | Embedded data processing | Optical communication links | Tactile sensors  
? Source Id: 21101046681  
? Author Ids: 57199654883;57197744325  
? Authoraffiliationids: 60025153-60112476;60025153  
? Corresponding: Ibrahim A.

60.

? Title: Artificial tactile sensing and electronic-skin technologies  
? Venue: Electronic Skin Sensors and Systems  
? Year: 2020  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 1  
? Scopus ID: 2-s2.0-85106634296  
? Pages: 13-45  
? Authors: Fares Hoda; Valle Maurizio  
? Source Id: 21101046681  
? Author Ids: 57197743964;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Fares H.

61.

? Title: Efficient algorithms for embedded tactile data processing  
? Venue: Electronic Skin Sensors and Systems  
? Year: 2020  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 12  
? Scopus ID: 2-s2.0-85106604783  
? Pages: 113-138  
? Authors: Younes Hamoud; Alameh Mohamad; Ibrahim Ali; Rizk Mostafa; Valle Maurizio  
? Source Id: 21101046681  
? Author Ids: 57204100434;57191244155;57199654883;37091339400;57197744325  
? Authoraffiliationids: 60025153-60112476;60025153;60025153-60112476;60112476;60025153  
? Corresponding: Younes H.

62.

? Title: Approximate arithmetic circuits for energy efficient data processing in electronic skin  
? Venue: Electronic Skin Sensors and Systems  
? Year: 2020  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 0  
? Scopus ID: 2-s2.0-85106598684  
? Pages: 139-195  
? Authors: Osta Mario; Ibrahim Ali; Valle Maurizio  
? Source Id: 21101046681  
? Author Ids: 57197747347;57199654883;57197744325

- ? Authoraffiliationids: 60025153;60025153-60112476;60025153  
? Corresponding: Osta M.
63.  
? Title: Electronic skin systems  
? Venue: Electronic Skin Sensors and Systems  
? Year: 2020  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 0  
? Scopus ID: 2-s2.0-85106591829  
? Pages: 1-12  
? Authors: Ibrahim Ali; Valle Maurizio  
? Source Id: 21101046681  
? Author Ids: 57199654883;57197744325  
? Authoraffiliationids: 60025153-60112476;60025153  
? Corresponding: Ibrahim A.
64.  
? Title: Artificial skin and electrotactile stimulation for advanced tactile feedback in myoelectric prostheses  
? Venue: Electronic Skin Sensors and Systems  
? Year: 2020  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 0  
? Scopus ID: 2-s2.0-85106591451  
? Pages: 197-236  
? Authors: Seminara Lucia; Strbac Matija; Amin Youssef; Valle Maurizio; Dosen Strahinja  
? Source Id: 21101046681  
? Author Ids: 19338029900;55185521500;57223977236;57197744325;23388778600  
? Authoraffiliationids: 60025153;60110404;60025153;60025153;60022134  
? Corresponding: Seminara L.
65.  
? Title: Embedded feedback system for upper limb prosthetics  
? Venue: Icecs 2020 27th IEEE International Conference on Electronics Circuits and Systems Proceedings  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Icecs49266.2020.9294781  
? Scopus ID: 2-s2.0-85099440798  
? Authors: Abbass Y.; Saleh M.; Ibrahim A.; Valle M.  
? Keywords: Electro-cutaneous stimulation | Embedded sensory feedback system | Interface Electronics | Tactile sensors  
? Source Id: 21101033916  
? Author Ids: 57211312886;57204771075;57199654883;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Abbass Y.
66.  
? Title: Virtual Reality based Telerobotics Framework with Depth Cameras  
? Venue: 29th IEEE International Conference on Robot and Human Interactive Communication Ro Man 2020  
? Year: 2020  
? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 29  
? Doi: 10.1109/Ro-Man47096.2020.9223445  
? Scopus ID: 2-s2.0-85095791209  
? Pages: 1217-1222  
? Authors: Omarali Bukeikhan; Denoun Brice; Althoefer Kaspar; Jamone Lorenzo; Valle Maurizio; Farkhatdinov Ildar  
? Source Id: 21101027201  
? Author Ids: 57188837733;57219622325;6701489118;24479375600;57197744325;24482891800  
? Authoraffiliationids: 60022109;60022109;60022109;60022109;60025153;60022109  
? Corresponding: Omarali B.

67.

? Title: Temporal Asynchrony but Not Total Energy Nor Duration Improves the Judgment of Numerosity in Electrotactile Stimulation

? Venue: Frontiers in Bioengineering and Biotechnology

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 10

? DOI: 10.3389/fbioe.2020.00555

? Scopus ID: 2-s2.0-85087273856

? eISSN: 22964185

? Volume: 8

? Authors: Nataletti Sara; Leo Fabrizio; Seminara Lucia; Trompetto Carlo; Valle Maurizio; Dosen Strahinja; Brayda Luca

? Keywords: electrotactile stimulation | numerosity judgment | sensory substitution | somatosensory integration | stimulation timing | tactile feedback | touch | upper extremity

? Quartile:

2025:

? Histology (Q1, rank 4, percentile 94)

? Biotechnology (Q1, rank 53, percentile 83)

? Biomedical Engineering (Q1, rank 59, percentile 82)

? Bioengineering (Q1, rank 31, percentile 81)

2020:

? Histology (Q3, rank 34, percentile 44)

? Biotechnology (Q3, rank 158, percentile 44)

? Biomedical Engineering (Q3, rank 131, percentile 43)

? Bioengineering (Q3, rank 97, percentile 34)

? Source Id: 21100835954

? Author Ids:

57197797727;23467223100;19338029900;6602836622;57197744325;23388778600;6506625090

? Authoraffiliationids: 60102151-60121711;60102151;60025153;60107402-

60025153;60025153;60022134;60102151-124700387

? Corresponding: Nataletti S.

68.

? Title: Editorial of special issue "tactile sensing technology and systems"

? Venue: Micromachines

? Year: 2020

? Type: Journal

? Subtype: Editorial

? Citations: 2

? DOI: 10.3390/mi11050506

? Scopus ID: 2-s2.0-85085942264

? eISSN: 2072666X  
? Volume: 11  
? Issue: 5  
? Authors: Valle Maurizio  
? Quartile:  
2025:  
? Mechanical Engineering (Q1, rank 135, percentile 81)  
? Electrical and Electronic Engineering (Q1, rank 198, percentile 80)  
? Control and Systems Engineering (Q1, rank 83, percentile 78)  
2020:  
? Mechanical Engineering (Q2, rank 164, percentile 72)  
? Control and Systems Engineering (Q2, rank 84, percentile 67)  
? Electrical and Electronic Engineering (Q2, rank 230, percentile 66)  
? Source Id: 21100229176  
? Author Ids: 57197744325  
? Authoraffiliationids: 60025153  
? Corresponding: Valle M.

69.  
? Title: Dual-Parameter Modulation Improves Stimulus Localization in Multichannel Electrotactile Stimulation  
? Venue: IEEE Transactions on Haptics  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 20  
? Doi: 10.1109/Toh.2019.2950625  
? Scopus ID: 2-s2.0-85074534380  
? Issn: 19391412  
? eISSN: 23294051  
? Volume: 13  
? Issue: 2  
? Pages: 393-403  
? Authors: Seminara Lucia; Fares Hoda; Franceschi Marta; Valle Maurizio; Strbac Matija; Farina Dario; Dosen Strahinja  
? Keywords: Electrotactile stimulation | matrix electrodes | mechanical stimulation | sensory feedback | spatial localization  
? Quartile:  
2025:  
? Computer Science Applications (Q2, rank 324, percentile 67)  
? Human-Computer Interaction (Q2, rank 90, percentile 53)  
2020:  
? Computer Science Applications (Q1, rank 133, percentile 80)  
? Human-Computer Interaction (Q1, rank 25, percentile 79)  
? Source Id: 12100154405  
? Author Ids:  
19338029900;57197743964;57038343300;57197744325;55185521500;7004908025;23388778600  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60110404;60015150;60022134  
? Corresponding: Seminara L.

70.  
? Title: Validation of screen-printed electronic skin based on piezoelectric polymer sensors  
? Venue: Sensors Switzerland  
? Year: 2020  
? Type: Journal

? Subtype: Article  
? Citations: 25  
? DOI: 10.3390/s20041160  
? Scopus ID: 2-s2.0-85079722617  
? Issn: 14248220  
? Volume: 20  
? Issue: 4  
? Authors: Fares Hoda; Abbass Yahya; Valle Maurizio; Seminara Lucia  
? Keywords: Electronic skin | P(VDF-TrFE) sensors | Prosthetics | Screen printed sensor technology | Skin characterization | Tactile sensing | Technology validation  
? 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)  
2020:  
? Instrumentation (Q1, rank 13, percentile 90)  
? Electrical and Electronic Engineering (Q1, rank 135, percentile 80)  
? Information Systems (Q1, rank 69, percentile 79)  
? Atomic and Molecular Physics, and Optics (Q1, rank 42, percentile 78)  
? Analytical Chemistry (Q1, rank 29, percentile 76)  
? Biochemistry (Q2, rank 133, percentile 67)  
? Source Id: 130124  
? Author Ids: 57197743964;57211312886;57197744325;19338029900  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60025153  
? Corresponding: Fares H.

71.

? Title: Metal Oxide Gas Sensor Electronic Interfaces  
? Venue: Smart Sensors for Environmental and Medical Applications  
? Year: 2020  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 3  
? DOI: 10.1002/9781119587422.ch7  
? Scopus ID: 2-s2.0-85123625814  
? Pages: 129-147  
? Authors: Hijazi Zeinab; Caviglia Daniele D.; Valle Maurizio  
? Source Id: 21101091399  
? Author Ids: 57188768487;7004012654;57197744325  
? Authoraffiliationids: 60025153-60272389;60025153;60025153  
? Corresponding: Hijazi Z.

72.

? Title: Near Sensors Computation based on Embedded Machine Learning for Electronic Skin  
? Venue: Procedia Manufacturing  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? DOI: 10.1016/j.promfg.2020.11.049  
? Scopus ID: 2-s2.0-85100744258

? eISSN: 23519789  
? Volume: 52  
? Pages: 295-300  
? Authors: Ibrahim Ali; Younes Hamoud; Alameh Mohamad; Valle Maurizio  
? Source Id: 21101049053  
? Author Ids: 57199654883;57204100434;57191244155;57197744325  
? Authoraffiliationids: 60025153-60112476;60025153-60112476;60025153;60025153  
? Corresponding: Ibrahim A.

73.

? Title: Smart tactile sensing systems based on embedded CNN implementations  
? Venue: Micromachines  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 29  
? DOI: 10.3390/mi11010103  
? Scopus ID: 2-s2.0-85079035355  
? eISSN: 2072666X  
? Volume: 11  
? Issue: 1  
? Authors: Alameh Mohamad; Abbass Yahya; Ibrahim Ali; Valle Maurizio  
? Keywords: Convolutional neural network | Embedding intelligence | Tactile sensing systems  
? Quartile:  
2025:  
? Mechanical Engineering (Q1, rank 135, percentile 81)  
? Electrical and Electronic Engineering (Q1, rank 198, percentile 80)  
? Control and Systems Engineering (Q1, rank 83, percentile 78)  
2020:  
? Mechanical Engineering (Q2, rank 164, percentile 72)  
? Control and Systems Engineering (Q2, rank 84, percentile 67)  
? Electrical and Electronic Engineering (Q2, rank 230, percentile 66)  
? Source Id: 21100229176  
? Author Ids: 57191244155;57211312886;57199654883;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153-60112476;60025153  
? Corresponding: Alameh M.

74.

? Title: Introduction to the Special Issue on the 1st IEEE International Conference on Artificial Intelligence Circuits and Systems (AICAS 2019)  
? Venue: IEEE Journal on Emerging and Selected Topics in Circuits and Systems  
? Year: 2019  
? Type: Journal  
? Subtype: Editorial  
? Citations: 1  
? Doi: 10.1109/Jetcas.2019.2954760  
? Scopus ID: 2-s2.0-85076692336  
? Issn: 21563357  
? eISSN: 21563365  
? Volume: 9  
? Issue: 4  
? Pages: 595-597  
? Authors: Chang Robert Chen Hao; Lee Gwo Giun Chris; Delbruck Tobi; Valle Maurizio  
? Quartile:  
2025:

- ? Electrical and Electronic Engineering (Q1, rank 105, percentile 89)  
2019:  
? Electrical and Electronic Engineering (Q1, rank 85, percentile 87)  
? Source Id: 19700201678  
? Author Ids: 7403713372;7404852975;35576634800;57197744325  
? Authoraffiliationids: 60017511;60014982;60012614;60025153  
? Corresponding: Chang R.C.H.
75.  
? Title: Energy efficient implementation of machine learning algorithms on hardware platforms  
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icces 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? Doi: 10.1109/Icces46596.2019.8965157  
? Scopus ID: 2-s2.0-85079195030  
? Pages: 21-24  
? Authors: Osta Mario; Alameh Mohamad; Younes Hamoud; Ibrahim Ali; Valle Maurizio  
? Keywords: Deep Learning | Embedded Machine Learning | Energy Efficient techniques | Low Power platforms  
? Source Id: 21100944554  
? Author Ids: 57197747347;57191244155;57204100434;57199654883;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153-60112476;60025153-60112476;60025153  
? Corresponding: Osta M.
76.  
? Title: FPGA implementation of approximate CORDIC circuits for energy efficient applications  
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icces 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.1109/Icces46596.2019.8964758  
? Scopus ID: 2-s2.0-85079177088  
? Pages: 127-128  
? Authors: Osta Mario; Ibrahim Ali; Valle Maurizio  
? Keywords: CORDIC | Energy Efficient techniques | Low Power circuits  
? Source Id: 21100944554  
? Author Ids: 57197747347;57199654883;57197744325  
? Authoraffiliationids: 60025153;60025153-60112476;60025153  
? Corresponding: Osta M.
77.  
? Title: Integration of a virtual protheses with a multichannel tactile feedback interface  
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icces 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Icces46596.2019.8965137

- ? Scopus ID: 2-s2.0-85079140879  
? Pages: 135-137  
? Authors: Fares Hoda; Dosen Strahinja; Valle Maurizio  
? Keywords: Electrode-skin interface | Myoelectric prostheses | Noninvasive Electrotactile stimulation | Sensory feedback | Tactile sensors | Virtual reality  
? Source Id: 21100944554  
? Author Ids: 57197743964;23388778600;57197744325  
? Authoraffiliationids: 60025153;60022134;60025153  
? Corresponding: Fares H.
78.  
? Title: Algorithmic level approximate computing for machine learning classifiers  
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icecs 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 14  
? Doi: 10.1109/Icecs46596.2019.8964974  
? Scopus ID: 2-s2.0-85079139011  
? Pages: 113-114  
? Authors: Younes Hamoud; Ibrahim Ali; Rizk Mostafa; Valle Maurizio  
? Keywords: Approximate Computing | Embedded Machine Learning | Supervised Learning | Tensorial Data | Time Latency  
? Source Id: 21100944554  
? Author Ids: 57204100434;57199654883;37091339400;57197744325  
? Authoraffiliationids: 60025153-60112476;60025153-60112476;60112476-60068774;60025153  
? Corresponding: Younes H.
79.  
? Title: FPGA-Based tactile sensory feedback system with optical fiber data communication link for prosthetic applications  
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icecs 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 6  
? Doi: 10.1109/Icecs46596.2019.8965172  
? Scopus ID: 2-s2.0-85079127970  
? Pages: 374-377  
? Authors: Di Patrizio Stanchieri G.; Saleh M.; Sciulli M.; De Marcellis A.; Ibrahim A.; Valle M.; Faccio M.; Palange E.  
? Keywords: Optical Fiber Links | Prosthetic Applications | Sensory Feedback Systems  
? Source Id: 21100944554  
? Author Ids: 57191657351;57204771075;57212549786;23975554000;57199654883;57197744325;7003775870;6701392461  
? Authoraffiliationids: 60018783;60025153;60018783;60018783;60025153;60025153;60018783;60018783  
? Corresponding: Di Patrizio Stanchieri G.
80.  
? Title: Experimental assessment of the interface electronic system for PVDF-based piezoelectric tactile sensors  
? Venue: Sensors Switzerland  
? Year: 2019  
? Type: Journal

? Subtype: Article  
? Citations: 18  
? DOI: 10.3390/s19204437  
? Scopus ID: 2-s2.0-85073481551  
? Issn: 14248220  
? Volume: 19  
? Issue: 20  
? Authors: Saleh Moustafa; Abbass Yahya; Ibrahim Ali; Valle Maurizio  
? Keywords: Experimental characterization | Interface electronics | Sensors measurements | Signal to noise ratio | Tactile sensors  
? 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)  
2019:  
? Instrumentation (Q1, rank 17, percentile 87)  
? Electrical and Electronic Engineering (Q1, rank 147, percentile 78)  
? Information Systems (Q1, rank 70, percentile 76)  
? Atomic and Molecular Physics, and Optics (Q1, rank 46, percentile 75)  
? Analytical Chemistry (Q2, rank 35, percentile 71)  
? Biochemistry (Q2, rank 156, percentile 61)  
? Source Id: 130124  
? Author Ids: 57204771075;57211312886;57199654883;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60025153-60112476;60025153  
? Corresponding: Saleh M.

81.

? Title: Live Demonstration: Tactile Sensory Feedback System based on UWB Optical Link for Prosthetics  
? Venue: Biocas 2019 Biomedical Circuits and Systems Conference Proceedings  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Biocas.2019.8919060  
? Scopus ID: 2-s2.0-85077047819  
? Authors: Saleh M.; Patrizio Stanchieri G. Di; Sciulli M.; Marcellis A. De; Abbass Y.; Ibrahim A.; Valle M.; Faccio M.; Palange E.  
? Source Id: 21100962465  
? Author Ids: 57204771075;57191657351;57212549786;23975554000;57211312886;57199654883;57197744325;7003775870;6701392461  
? Authoraffiliationids: 60025153;60018783;60018783;60018783;60025153;60025153;60025153;60018783;60018783  
? Corresponding: Saleh M.

82.

? Title: Data Oriented Approximate K-Nearest Neighbor Classifier for Touch Modality Recognition  
? Venue: Prime 2019 15th Conference on Ph D Research in Microelectronics and Electronics Proceedings  
? Year: 2019  
? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 12  
? Doi: 10.1109/Prime.2019.8787753  
? Scopus ID: 2-s2.0-85071332045  
? Pages: 241-244  
? Authors: Younes Hamoud; Ibrahim Ali; Rizk Mostafa; Valle Maurizio  
? Keywords: Approximate Computing | Embedded Machine Learning | Performance Profiling | Tactile Sensing  
? Source Id: 21100925780  
? Author Ids: 57204100434;57199654883;37091339400;57197744325  
? Authoraffiliationids: 60025153-60112476;60025153-60112476;60112476;60025153  
? Corresponding: Younes H.

83.

? Title: DCNN for Tactile Sensory Data Classification based on Transfer Learning  
? Venue: Prime 2019 15th Conference on Ph D Research in Microelectronics and Electronics Proceedings  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 24  
? Doi: 10.1109/Prime.2019.8787748  
? Scopus ID: 2-s2.0-85071323991  
? Pages: 237-240  
? Authors: Alameh Mohamad; Ibrahim Ali; Valle Maurizio; Moser Gabriele  
? Keywords: convolutional neural network (CNN) | deep learning | prosthetic | signal processing | Tactile sensing  
? Source Id: 21100925780  
? Author Ids: 57191244155;57199654883;57197744325;7101795745  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Alameh M.

84.

? Title: Selected articles from the NGCAS 2018 conference  
? Venue: Journal of Low Power Electronics  
? Year: 2019  
? Type: Journal  
? Subtype: Editorial  
? Citations: 0  
? DOI: 10.1166/jolpe.2019.1587  
? Scopus ID: 2-s2.0-85070995454  
? Issn: 15461998  
? eISSN: 15462005  
? Volume: 15  
? Issue: 1  
? Pages: 27-29  
? Authors: Gatt Edward; Ibrahim Ali; Valle Maurizio; De Marcellis Andrea; Heidari Hadi  
? Quartile:  
2019:  
? Electrical and Electronic Engineering (Q4, rank 530, percentile 20)  
? Source Id: 13000154722  
? Author Ids: 23566673000;57199654883;57197744325;23975554000;55880118300  
? Authoraffiliationids: 60072651;60112476-60025153;60025153;60018783;60001490  
? Corresponding: Gatt E.

85.

? Title: Low power electronic system for tactile sensory feedback for prosthetics

? Venue: Journal of Low Power Electronics  
? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 3  
? DOI: 10.1166/jolpe.2019.1594  
? Scopus ID: 2-s2.0-85070976410  
? Issn: 15461998  
? eISSN: 15462005  
? Volume: 15  
? Issue: 1  
? Pages: 95-103  
? Authors: Saleh Moustafa; Ibrahim Ali; Ansovini Flavio; Mohanna Yasser; Valle Maurizio  
? Keywords: Interface Electronics | Low Power Electronics | Piezoelectric Sensors |  
Prosthetic Application | Wearable Devices  
? Quartile:  
2019:  
? Electrical and Electronic Engineering (Q4, rank 530, percentile 20)  
? Source Id: 13000154722  
? Author Ids: 57204771075;57199654883;55372827800;16042986100;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153-60112476;60025153;60068774;60025153  
? Corresponding: Saleh M.

86.  
? Title: Position and Velocity Control for Telemanipulation with Interoperability Protocol  
? Venue: Lecture Notes in Computer Science Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics  
? Year: 2019  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1007/978-3-030-23807-0\_26  
? Scopus ID: 2-s2.0-85069001410  
? Issn: 03029743  
? eISSN: 16113349  
? Volume: 11649 Lnai  
? Pages: 316-324  
? Authors: Omarali Bukeikhan; Palermo Francesca; Valle Maurizio; Poslad Stefan; Althoefer Kaspar; Farkhatdinov Ildar  
? Keywords: Control | Protocol | Teleoperation  
? Quartile:  
2025:  
? Theoretical Computer Science (Q3, rank 70, percentile 48)  
? Computer Science (all) (Q3, rank 129, percentile 46)  
2019:  
? Computer Science (all) (Q2, rank 95, percentile 57)  
? Theoretical Computer Science (Q3, rank 77, percentile 35)  
? Source Id: 25674  
? Author Ids: 57188837733;57197794750;57197744325;6602121665;6701489118;24482891800  
? Authoraffiliationids:  
60022109-60025153;60022109;60025153;60022109;60022109;60022109-60015150  
? Corresponding: Omarali B.

87.  
? Title: An energy efficient system for touch modality classification in electronic

skin applications

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2019

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 14

? Doi: 10.1109/Iscas.2019.8702113

? Scopus ID: 2-s2.0-85066808923

? Issn: 02714310

? Volume: 2019-May

? Authors: Osta M.; Ibrahim A.; Magno M.; Eggimann M.; Pullini A.; Gastaldo P.; Valle M.

? Keywords: Energy Efficient EmbeddedMachineLearning | ParallelUltraLowPowerPlatform | Touch Modality Classification

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2019:

? Electrical and Electronic Engineering (Q3, rank 388, percentile 42)

? Source Id: 56190

? Author Ids:

57197747347;57199654883;23097444700;59768183100;22036156300;35612596100;57197744325

? Authoraffiliationids: 60025153;60025153;60025858;60025858;60025858;60025153;60025153

? Corresponding: Osta M.

88.

? Title: Live Demonstration: System based on Electronic Skin and Cutaneous Electrostimulation for Sensory Feedback in Prosthetics

? Venue: 2018 IEEE Biomedical Circuits and Systems Conference Biocas 2018 Proceedings

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 3

? Doi: 10.1109/Biocas.2018.8584710

? Scopus ID: 2-s2.0-85060892777

? Authors: Alameh M.; Saleh M.; Ansovini F.; Fares H.; Ibrahim A.; Franceschi M.; Seminara L.; Valle M.; Dosen S.; Farina D.

? Source Id: 21100896985

? Author Ids: 57191244155;57204771075;55372827800;57197743964;57199654883;57038343300;19338029900;57197744325;23388778600;7004908025

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153;60022134;60015150

? Corresponding: Alameh M.

89.

? Title: Wearable system for sensory substitution for prosthetics

? Venue: 2018 New Generation of CAS Ngcas 2018

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 10

? Doi: 10.1109/Ngcas.2018.8572173

? Scopus ID: 2-s2.0-85060203348

? Pages: 110-113

? Authors: Saleh Moustafa; Ibrahim Ali; Ansovini Flavio; Mohanna Yasser; Valle Maurizio

? Keywords: Analog to digital converter | Body Area Networks | Interface electronics |

Piezoelectric sensors | Prosthetic application

? Source Id: 21100895322

? Author Ids: 57204771075;57199654883;55372827800;16042986100;57197744325

? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774;60025153

? Corresponding: Saleh M.

90.

? Title: Real-Time embedded machine learning for tensorial tactile data processing

? Venue: IEEE Transactions on Circuits and Systems I Regular Papers

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 29

? Doi: 10.1109/Tcsi.2018.2852260

? Scopus ID: 2-s2.0-85051798250

? Issn: 15498328

? eISSN: 15580806

? Volume: 65

? Issue: 11

? Pages: 3897-3906

? Authors: Ibrahim Ali; Valle Maurizio

? Keywords: dedicated hardware implementation | Embedded machine learning | FPGA | real time processing | tactile sensors | tensorial kernel

? Quartile:

2025:

? Engineering (all) (Q1, rank 28, percentile 92)

2018:

? Subject (Q1, rank 87, percentile 87)

? Source Id: 11000153733

? Author Ids: 57199654883;57197744325

? Authoraffiliationids: 60025153;60025153

? Corresponding: Ibrahim A.

91.

? Title: Experimental characterization of dedicated front-end electronics for piezoelectric tactile sensing arrays

? Venue: Integration

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 4

? DOI: 10.1016/j.vlsi.2018.07.007

? Scopus ID: 2-s2.0-85050744034

? Issn: 01679260

? Volume: 63

? Pages: 266-272

? Authors: Ibrahim Ali; Pinna Luigi; Valle Maurizio

? Keywords: ENOB | Experimental characterization | Front-end electronics | Sensor measurements | SINAD | Tactile sensors

? Quartile:

2025:

? Electrical and Electronic Engineering (Q2, rank 331, percentile 66)

? Hardware and Architecture (Q2, rank 93, percentile 60)

? Software (Q2, rank 206, percentile 58)

2018:

? Electrical and Electronic Engineering (Q2, rank 301, percentile 55)

- ? Hardware and Architecture (Q3, rank 91, percentile 40)
  - ? Software (Q3, rank 227, percentile 37)
  - ? Source Id: 17932
  - ? Author Ids: 57199654883;35932431800;57197744325
  - ? Authoraffiliationids: 60025153;60025153;60025153
  - ? Corresponding: Ibrahim A.
- 92.
- ? Title: Time-based calibration-less read-out circuit for interfacing wide range MOX gas sensors
  - ? Venue: Integration
  - ? Year: 2018
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 13
  - ? DOI: 10.1016/j.vlsi.2018.05.004
  - ? Scopus ID: 2-s2.0-85050405847
  - ? Issn: 01679260
  - ? Volume: 63
  - ? Pages: 232-239
  - ? Authors: Hijazi Zeinab; Grassi Marco; Caviglia Daniele D.; Valle Maurizio
  - ? Keywords: High dynamic range | Interface electronics | Linearity | MOX | Resistive gas sensors | Time-based
  - ? Quartile:
- 2025:
- ? Electrical and Electronic Engineering (Q2, rank 331, percentile 66)
  - ? Hardware and Architecture (Q2, rank 93, percentile 60)
  - ? Software (Q2, rank 206, percentile 58)
- 2018:
- ? Electrical and Electronic Engineering (Q2, rank 301, percentile 55)
  - ? Hardware and Architecture (Q3, rank 91, percentile 40)
  - ? Software (Q3, rank 227, percentile 37)
  - ? Source Id: 17932
  - ? Author Ids: 57188768487;56257338300;7004012654;57197744325
  - ? Authoraffiliationids: 60025153;60015197;60025153;60025153
  - ? Corresponding: Hijazi Z.
- 93.
- ? Title: CMOS event-driven tactile sensor circuit
  - ? Venue: Integration
  - ? Year: 2018
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 3
  - ? DOI: 10.1016/j.vlsi.2018.04.006
  - ? Scopus ID: 2-s2.0-85049075794
  - ? Issn: 01679260
  - ? Volume: 63
  - ? Pages: 315-322
  - ? Authors: Khalil Ali Abou; Valle Maurizio; Chible Hussein; Bartolozzi Chiara
  - ? Keywords: Asynchronous | CMOS 180-nm technology | Event-driven tactile sensor | Leaky integrate and fire neuron | Neuromorphic circuits | Piezoelectric | POSFET
  - ? Quartile:
- 2025:
- ? Electrical and Electronic Engineering (Q2, rank 331, percentile 66)
  - ? Hardware and Architecture (Q2, rank 93, percentile 60)

- ? Software (Q2, rank 206, percentile 58)  
2018:  
? Electrical and Electronic Engineering (Q2, rank 301, percentile 55)  
? Hardware and Architecture (Q3, rank 91, percentile 40)  
? Software (Q3, rank 227, percentile 37)  
? Source Id: 17932  
? Author Ids: 57195379897;57197744325;7801443090;22940171400  
? Authoraffiliationids: 60025153-60068774-60102151;60025153;60068774;60102151  
? Corresponding: Khalil A.
94.  
? Title: Tunable Floating-Point for Embedded Machine Learning Algorithms Implementation  
? Venue: Smacd 2018 15th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.1109/Smacd.2018.8434873  
? Scopus ID: 2-s2.0-85052535425  
? Pages: 89-92  
? Authors: Franceschi Marta; Nannarelli Alberto; Valle Maurizio  
? Keywords: power efficiency | Simulation | SVD algorithm  
? Source Id: 21101296537  
? Author Ids: 57038343300;6701686139;57197744325  
? Authoraffiliationids: 60025153;60011373;60025153  
? Corresponding: Franceschi M.
95.  
? Title: Multi-Channel Electrotactile Stimulation System for Touch Substitution: A Case Study  
? Venue: Prime 2018 14th Conference on Ph D Research in Microelectronics and Electronics  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.1109/Prime.2018.8430345  
? Scopus ID: 2-s2.0-85052501499  
? Pages: 213-216  
? Authors: Fares Hoda; Seminara Lucia; Chible Hussein; Dosen Strahinja; Valle Maurizio  
? Keywords: Electrotactile stimulation | frequency coding | restoration of sense of touch | somatosensory feedback | stimulation electrodes | tactile perception  
? Source Id: 21100875439  
? Author Ids: 57197743964;19338029900;7801443090;23388778600;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60068774;60022134;60025153  
? Corresponding: Fares H.
96.  
? Title: Tunable Floating-Point for Artificial Neural Networks  
? Venue: 2018 25th IEEE International Conference on Electronics Circuits and Systems Iicecs 2018  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 10  
? Doi: 10.1109/Icecs.2018.8617900

? Scopus ID: 2-s2.0-85062283878  
? Pages: 289-292  
? Authors: Franceschi Marta; Nannarelli Alberto; Valle Maurizio  
? Keywords: Floating-point | neural networks | power efficiency  
? Source Id: 21101296341  
? Author Ids: 57038343300;6701686139;57197744325  
? Authoraffiliationids: 60025153;60011373;60025153  
? Corresponding: Franceschi M.

97.

? Title: Approximate Computing Methods for Embedded Machine Learning  
? Venue: 2018 25th IEEE International Conference on Electronics Circuits and Systems  
Icecs 2018  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 31  
? Doi: 10.1109/Icecs.2018.8617877  
? Scopus ID: 2-s2.0-85062270862  
? Pages: 845-848  
? Authors: Ibrahim Ali; Osta Mario; Alameh Mohamad; Saleh Moustafa; Chible Hussein;  
Valle Maurizio  
? Keywords: Approximate Computing | Embedded Machine Learning | Energy Efficiency |  
Error Resilient Systems  
? Source Id: 21101179329  
? Author Ids: 57199654883;57197747347;57191244155;57204771075;7801443090;57197744325  
? Authoraffiliationids:  
60025153-60068774;60025153-60068774;60025153;60025153-60068774;60068774;60025153  
? Corresponding: Ibrahim A.

98.

? Title: Screen Printed Tactile Sensing Arrays for Prosthetic Applications  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Iscas.2018.8351892  
? Scopus ID: 2-s2.0-85057127422  
? Issn: 02714310  
? Volume: 2018-May  
? Authors: Fares H.; Seminara L.; Pinna L.; Valle M.; Groten J.; Hammer M.; Zirkl M.;  
Stadlober B.  
? Keywords: flexible electronic skin | piezoelectric polymer screen printing |  
prosthetics | tactile sensing array  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2018:  
? Electrical and Electronic Engineering (Q3, rank 382, percentile 42)  
? Source Id: 56190  
? Author Ids: 57197743964;19338029900;35932431800;57197744325;34881624900;57204769126;8  
645083300;8645083800  
? Authoraffiliationids:  
60025153-60068774;60025153;60025153;60025153;60027742;60027742;60027742;60027742  
? Corresponding: Fares H.

99.

? Title: Live Demonstration: Electrotactile feedback from an electronic skin through flexible electrode matrix  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/lscas.2018.8351822  
? Scopus ID: 2-s2.0-85057081051  
? Issn: 02714310  
? Volume: 2018-May  
? Authors: Franceschi M.; Seminara L.; Dosen S.; Pinna L.; Fares H.; Saleh M.; Valle M.; Farina D.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2018:  
? Electrical and Electronic Engineering (Q3, rank 382, percentile 42)  
? Source Id: 56190  
? Author Ids: 57038343300;19338029900;23388778600;35932431800;57197743964;57204771075;57197744325;7004908025  
? Authoraffiliationids: 60025153;60025153;60022134;60025153;60025153;60025153;60025153;60015150  
? Corresponding: Franceschi M.

100.

? Title: Inexact Arithmetic Circuits for Energy Efficient IoT Sensors Data Processing  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 16  
? Doi: 10.1109/lscas.2018.8351839  
? Scopus ID: 2-s2.0-85054854760  
? Issn: 02714310  
? Volume: 2018-May  
? Authors: Osta Mario; Ibrahim Ali; Chible Hussein; Valle Maurizio  
? Keywords: Approximate computing | Energy efficiency | Inexact circuits | IoT | Smart sensors  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2018:  
? Electrical and Electronic Engineering (Q3, rank 382, percentile 42)  
? Source Id: 56190  
? Author Ids: 57197747347;57199654883;7801443090;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60068774;60025153  
? Corresponding: Osta M.

101.

? Title: Selected articles from the NGCAS 2017 conference  
? Venue: Journal of Low Power Electronics  
? Year: 2018  
? Type: Journal  
? Subtype: Editorial

? Citations: 0  
? DOI: 10.1166/jolpe.2018.1546  
? Scopus ID: 2-s2.0-85044864790  
? Issn: 15461998  
? eISSN: 15462005  
? Volume: 14  
? Issue: 1  
? Pages: 99-100  
? Authors: Valle Maurizio; Ibrahim Ali; Martina Maurizio; Magno Michele  
? Quartile:  
2018:  
? Electrical and Electronic Engineering (Q4, rank 539, percentile 19)  
? Source Id: 13000154722  
? Author Ids: 57197744325;57199654883;35611651300;23097444700  
? Authoraffiliationids: 60025153;60025153;60012162;60025858  
? Corresponding: Valle M.

102.

? Title: Low power approximate multipliers for energy efficient data processing  
? Venue: Journal of Low Power Electronics  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 9  
? DOI: 10.1166/jolpe.2018.1536  
? Scopus ID: 2-s2.0-85044861061  
? Issn: 15461998  
? eISSN: 15462005  
? Volume: 14  
? Issue: 1  
? Pages: 110-117  
? Authors: Osta Mario; Ibrahim Ali; Seminara Lucia; Chible Hussein; Valle Maurizio  
? Keywords: Approximate computing techniques | Energy efficiency | Error tolerant adders | Inexact digital multipliers  
? Quartile:  
2018:  
? Electrical and Electronic Engineering (Q4, rank 539, percentile 19)  
? Source Id: 13000154722  
? Author Ids: 57197747347;57199654883;19338029900;7801443090;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774;60025153  
? Corresponding: Osta M.

103.

? Title: An energy efficient E-skin embedded system for real-time tactile data decoding  
? Venue: Journal of Low Power Electronics  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 5  
? DOI: 10.1166/jolpe.2018.1537  
? Scopus ID: 2-s2.0-85044845484  
? Issn: 15461998  
? eISSN: 15462005  
? Volume: 14  
? Issue: 1  
? Pages: 101-109

? Authors: Magno Michele; Ibrahim Ali; Pullini Antonio; Valle Maurizio; Benini Luca  
? Keywords: Electronic skin | Low power processing | Machine learning implementation | Parallel ultra-low power | Wearable devices

? Quartile:

2018:

? Electrical and Electronic Engineering (Q4, rank 539, percentile 19)

? Source Id: 13000154722

? Author Ids: 23097444700;57199654883;22036156300;57197744325;35556997000

? Authoraffiliationids: 60025858;60025153;60025858;60025153;60025858

? Corresponding: Magno M.

104.

? Title: Distributed sensing and stimulation systems for sense of touch restoration in prosthetics

? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017

? Year: 2017

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 15

? Doi: 10.1109/Ngcas.2017.54

? Scopus ID: 2-s2.0-85034455727

? Pages: 177-180

? Authors: Fares Hoda; Seminara Lucia; Ibrahim Ali; Franceschi Marta; Pinna Luigi; Valle Maurizio; Dosen Strahinja; Farina Dario

? Keywords: Distributed sensing | Distributed stimulation | Embedded electronics | Prosthetic hands | Somatosensory feedback

? Source Id: 21100838549

? Author Ids: 57197743964;19338029900;57199654883;57038343300;35932431800;57197744325;23388778600;7004908025

? Authoraffiliationids:

60025153-60068774;60025153;60025153;60025153;60025153;60022134;60015150

? Corresponding: Fares H.

105.

? Title: CMOS dynamic tactile sensor

? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017

? Year: 2017

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Ngcas.2017.48

? Scopus ID: 2-s2.0-85034450343

? Pages: 269-272

? Authors: Khalil Ali Abou; Valle Maurizio; Chible Hussein; Bartolozzi Chiara

? Keywords: Change Detector (CD) | CMOS 0.18mm technology | Dynamic Tactile Sensor (DTS) | Event-driven tactile sensor | Neuromorphic

? Source Id: 21100838549

? Author Ids: 57195379897;57197744325;7801443090;22940171400

? Authoraffiliationids: 60025153-60068774-60102151;60025153;60068774;60102151

? Corresponding: Khalil A.

106.

? Title: Interface circuits based on FPGA for tactile sensor systems

? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017

? Year: 2017

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5  
? Doi: 10.1109/Ngcas.2017.60  
? Scopus ID: 2-s2.0-85034441473  
? Pages: 37-40  
? Authors: Ibrahim Ali; Pinna Luigi; Valle Maurizio  
? Keywords: Electronic skin | Interface circuits | Sensor measurements | Tactile sensors  
? Source Id: 21100838549  
? Author Ids: 57199654883;35932431800;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Ibrahim A.

107.

? Title: Welcome message from the general chair  
? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Editorial  
? Citations: 0  
? Doi: 10.1109/Ngcas.2017.6  
? Scopus ID: 2-s2.0-85034439483  
? Pages: xiii-xiv  
? Authors: Valle Maurizio  
? Source Id: 21100838549  
? Author Ids: 57197744325  
? Corresponding: Valle M.

108.

? Title: Approximate FPGA implementation of CORDIC for tactile data processing using speculative adders  
? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 12  
? Doi: 10.1109/Ngcas.2017.40  
? Scopus ID: 2-s2.0-85034432692  
? Pages: 41-44  
? Authors: Franceschi Marta; Camus Vincent; Ibrahim Ali; Enz Christian; Valle Maurizio  
? Keywords: Approximate computing | CORDIC | FPGA | Inexact speculative adder | Tactile data processing  
? Source Id: 21100838549  
? Author Ids: 57038343300;56919423100;57199654883;7005370402;57197744325  
? Authoraffiliationids: 60025153;60028186;60025153;60028186;60025153  
? Corresponding: Franceschi M.

109.

? Title: Energy efficient system for tactile data decoding using an ultra-low power parallel platform  
? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Ngcas.2017.56  
? Scopus ID: 2-s2.0-85034425789  
? Pages: 17-20

? Authors: Magno Michele; Ibrahim Ali; Pullini Antonio; Valle Maurizio; Benini Luca  
? Keywords: Electronic skin | Low power processing | Machine learning implementation | Parallel ultra low power | Wearable devices  
? Source Id: 21100838549  
? Author Ids: 23097444700;57199654883;22036156300;57197744325;35556997000  
? Authoraffiliationids: 60025858;60025153;60025858;60025153;60025858  
? Corresponding: Magno M.

110.

? Title: Approximate multipliers based on inexact adders for energy efficient data processing  
? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 25  
? Doi: 10.1109/Ngcas.2017.41  
? Scopus ID: 2-s2.0-85034417515  
? Pages: 125-128  
? Authors: Osta Mario; Ibrahim Ali; Chible Hussein; Valle Maurizio  
? Keywords: Accuracy | Approximate Computing | Digital Multipliers | Error Tolerant | Low Power Consumption  
? Source Id: 21100838549  
? Author Ids: 57197747347;57199654883;7801443090;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153-60068774  
? Corresponding: Osta M.

111.

? Title: 153dB dynamic range calibration-less gas sensor interface circuit with quasi-digital output  
? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 14  
? Doi: 10.1109/Ngcas.2017.11  
? Scopus ID: 2-s2.0-85034416041  
? Pages: 109-112  
? Authors: Hijazi Zeinab; Grassi Marco; Caviglia Daniele D.; Valle Maurizio  
? Keywords: High dynamic range | Interface electronics | Linearity | MOX | Quasi digital | Resistive gas sensors  
? Source Id: 21100838549  
? Author Ids: 57188768487;56257338300;7004012654;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60015197  
? Corresponding: Hijazi Z.

112.

? Title: Electronic skin and electrocutaneous stimulation to restore the sense of touch in hand prosthetics  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/lscas.2017.8050264  
? Scopus ID: 2-s2.0-85032685782  
? Issn: 02714310

? Authors: Seminara L.; Franceschi M.; Pinna L.; Ibrahim A.; Valle M.; Dosen S.; Farina D.  
? Keywords: electronic skin | embedded electronic system | prosthetics | tactile sensing  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2017:  
? Electrical and Electronic Engineering (Q3, rank 366, percentile 45)  
? Source Id: 56190  
? Author Ids:  
19338029900;57038343300;35932431800;57199654883;57197744325;23388778600;7004908025  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60021110;60015150  
? Corresponding: Seminara L.

113.  
? Title: Interface Electronics for Tactile Sensors Based on Piezoelectric Polymers  
? Venue: IEEE Sensors Journal  
? Year: 2017  
? Type: Journal  
? Subtype: Article  
? Citations: 24  
? Doi: 10.1109/Jsen.2017.2730840  
? Scopus ID: 2-s2.0-85028915407  
? Issn: 1530437x  
? Volume: 17  
? Issue: 18  
? Pages: 5937-5947  
? Authors: Pinna Luigi; Ibrahim Ali; Valle Maurizio  
? Keywords: charge to voltage converter | embedded electronic systems | Interface electronics | piezoelectric polymer | PVDF | tactile sensors  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 27, percentile 85)  
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)  
2017:  
? Instrumentation (Q1, rank 14, percentile 89)  
? Electrical and Electronic Engineering (Q1, rank 109, percentile 83)  
? Source Id: 15047  
? Author Ids: 35932431800;57199654883;57197744325  
? Authoraffiliationids: 60025153;60025153-60068774;60025153  
? Corresponding: Pinna L.

114.  
? Title: Improved event-driven touch CMOS sensor  
? Venue: Prime 2017 13th Conference on Phd Research in Microelectronics and Electronics Proceedings  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Prime.2017.7974134  
? Scopus ID: 2-s2.0-85027589191  
? Pages: 169-172  
? Authors: Khalil Ali Abou; Valle Maurizio; Chible Hussein; Bartolozzi Chiara  
? Keywords: AMS 0.18?m technology | Event driven tactile sensor | LIF(Leaky Integrate

and Fire Neuron) | Neuromorphic

? Source Id: 21100827311

? Author Ids: 57195379897;57197744325;7801443090;22940171400

? Authoraffiliationids: 60025153-60068774-60102151;60025153;60068774;60102151

? Corresponding: Khalil A.

115.

? Title: Spike-Based Readout of POSFET Tactile Sensors

? Venue: IEEE Transactions on Circuits and Systems I Regular Papers

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 20

? Doi: 10.1109/Tcsi.2016.2561818

? Scopus ID: 2-s2.0-85020253478

? Issn: 15498328

? eISSN: 15580806

? Volume: 64

? Issue: 6

? Pages: 1421-1431

? Authors: Caviglia Stefano; Pinna Luigi; Valle Maurizio; Bartolozzi Chiara

? Keywords: Address event representation (AER) | compressive sensing | event-driven sensing | neuromorphic | touch

? Quartile:

2025:

? Engineering (all) (Q1, rank 28, percentile 92)

2017:

? Subject (Q1, rank 73, percentile 89)

? Source Id: 11000153733

? Author Ids: 56369796600;35932431800;57197744325;22940171400

? Authoraffiliationids: 60102151-60025153;60025153;60025153;60102151

? Corresponding: Caviglia S.

116.

? Title: Approximate computing techniques for low power implementation of reconfigurable coordinate rotation digital computer circuits

? Venue: Journal of Low Power Electronics

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 5

? DOI: 10.1166/jolpe.2017.1482

? Scopus ID: 2-s2.0-85020037463

? Issn: 15461998

? eISSN: 15462005

? Volume: 13

? Issue: 2

? Pages: 196-204

? Authors: Ibrahim Ali; Valle Maurizio

? Keywords: Approximate computing | CORDIC | FPGA implementation | Inexact adders | Low power consumption | Real time reconfigurability | Scalable precision

? Quartile:

2017:

? Electrical and Electronic Engineering (Q3, rank 491, percentile 26)

? Source Id: 13000154722

? Author Ids: 57199654883;57197744325

? Authoraffiliationids: 60025153;60025153

? Corresponding: Ibrahim A.

117.

? Title: A System for Electrotactile Feedback Using Electronic Skin and Flexible Matrix

Electrodes: Experimental Evaluation

? Venue: IEEE Transactions on Haptics

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 68

? Doi: 10.1109/Toh.2016.2618377

? Scopus ID: 2-s2.0-85028334850

? Issn: 19391412

? Volume: 10

? Issue: 2

? Pages: 162-172

? Authors: Franceschi Marta; Seminara Lucia; Dosen Strahinja; Strbac Matija; Valle Maurizio; Farina Dario

? Keywords: Electronic skin | electrotactile stimulation | human-computer interaction | matrix electrodes | prosthetics | sensory substitution

? Quartile:

2025:

? Computer Science Applications (Q2, rank 324, percentile 67)

? Human-Computer Interaction (Q2, rank 90, percentile 53)

2017:

? Computer Science Applications (Q2, rank 144, percentile 74)

? Human-Computer Interaction (Q2, rank 27, percentile 70)

? Source Id: 12100154405

? Author Ids: 57038343300;19338029900;23388778600;55185521500;57197744325;7004908025

? Authoraffiliationids: 60025153;60025153;60021110-60110404;60276555;60025153;60015150

? Corresponding: Franceschi M.

118.

? Title: Real-time digital signal processing based on FPGAs for electronic skin implementation

? Venue: Sensors Switzerland

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 24

? DOI: 10.3390/s17030558

? Scopus ID: 2-s2.0-85015186653

? Issn: 14248220

? Volume: 17

? Issue: 3

? Authors: Ibrahim Ali; Gastaldo Paolo; Chible Hussein; Valle Maurizio

? Keywords: Digital signal processing | Electronic skin system | FPGA implementation | Power consumption | Real-time classification

? 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)  
2017:  
? Instrumentation (Q1, rank 20, percentile 84)  
? Electrical and Electronic Engineering (Q1, rank 131, percentile 80)  
? Atomic and Molecular Physics, and Optics (Q2, rank 44, percentile 74)  
? Analytical Chemistry (Q2, rank 38, percentile 67)  
? Biochemistry (Q2, rank 186, percentile 55)  
? Source Id: 130124  
? Author Ids: 57199654883;35612596100;7801443090;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60068774;60025153  
? Corresponding: Ibrahim A.
119.  
? Title: Embedded electronic systems for tactile data processing  
? Venue: Lecture Notes in Electrical Engineering  
? Year: 2017  
? Type: Book Series  
? Subtype: Article  
? Citations: 0  
? Doi: 10.1007/978-3-319-47913-2\_3  
? Scopus ID: 2-s2.0-85008471276  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 409  
? Pages: 17-23  
? Authors: Ibrahim Ali; Noli Luca; Chible Hussein; Valle Maurizio  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
2017:  
? Industrial and Manufacturing Engineering (Q3, rank 220, percentile 33)  
? Source Id: 19700186822  
? Author Ids: 57199654883;6507179015;7801443090;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60068774;60025153  
? Corresponding: Ibrahim A.
120.  
? Title: Differential R-to-I conversion circuit for gas sensing in biomedical applications  
? Venue: Middle East Conference on Biomedical Engineering Mecbme  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Mecbme.2016.7745412  
? Scopus ID: 2-s2.0-85000766790  
? Issn: 21654247  
? eISSN: 21654255  
? Volume: 2016-November  
? Pages: 76-79  
? Authors: Hijazi Zeinab; Caviglia Daniele; Chible Hussein; Valle Maurizio  
? Keywords: E-nose | environmental corners | portable applications | process variation  
| R-to-I conversion | resistive gas sensors  
? Source Id: 21100313902  
? Author Ids: 57188768487;7004012654;7801443090;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60068774;60025153

- ? Corresponding: Hijazi Z.
- 121.
- ? Title: Flexible hardware architecture for the generation of ultrasound pulses in medical imaging
  - ? Venue: IEEE International Ultrasonics Symposium Ius
  - ? Year: 2016
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 2
  - ? Doi: 10.1109/Ultsym.2016.7728595
  - ? Scopus ID: 2-s2.0-84996483354
  - ? Issn: 19485719
  - ? eISSN: 19485727
  - ? Volume: 2016-November
  - ? Authors: Terenzi Marco; Ghisu Davide; Quaglia Fabio; Boni Enrico; Mendez Maurizio Diaz; Valle Maurizio; Caviglia Daniele D.
  - ? Keywords: high voltage pulser | integrated circuits | multilevel ultrasound drivers
  - ? Quartile:
    - 2025:
      - ? Acoustics and Ultrasonics (Q2, rank 27, percentile 50)
    - ? Source Id: 21100219905
    - ? Author Ids: 55827139300;56412028800;36814319600;57196175627;36441498000;57197744325;7004012654
    - ? Authoraffiliationids: 60023682;60023682;60023682;60021859;60025153;60025153;60025153
    - ? Corresponding: Terenzi M.
- 122.
- ? Title: Model-Based Simulation Framework for FlexRay Communication Systems
  - ? Venue: Journal of Circuits Systems and Computers
  - ? Year: 2016
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 2
  - ? Doi: 10.1142/S0218126616501371
  - ? Scopus ID: 2-s2.0-84976871888
  - ? Issn: 02181266
  - ? Volume: 25
  - ? Issue: 11
  - ? Authors: Muller Candice; Valle Maurizio; Buzas Roman; Brtan Filip
  - ? Keywords: EPL | FlexRay | model-based simulation | signal integrity
  - ? Quartile:
    - 2025:
      - ? Electrical and Electronic Engineering (Q2, rank 494, percentile 50)
      - ? Hardware and Architecture (Q3, rank 131, percentile 44)
    - 2016:
      - ? Electrical and Electronic Engineering (Q3, rank 464, percentile 29)
      - ? Hardware and Architecture (Q4, rank 128, percentile 13)
- 123.
- ? Title: Achievements and open issues toward embedding tactile sensing and interpretation into electronic skin systems
  - ? Venue: Material Integrated Intelligent Systems Technology and Applications

? Year: 2016  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 6  
? DOI: 10.1002/9783527679249.ch23  
? Scopus ID: 2-s2.0-85034445600  
? Pages: 571-593  
? Authors: Ibrahim Ali; Pinna Luigi; Seminara Lucia; Valle Maurizio  
? Source Id: 21100870211  
? Author Ids: 57199654883;35932431800;19338029900;57197744325  
? Authoraffiliationids: 100505222;100505222;100505222;100505222  
? Corresponding: Ibrahim A.

124.

? Title: A high-sensitivity tactile sensor based on piezoelectric polymer PVDF coupled to an ultra-low voltage organic transistor  
? Venue: Organic Electronics Physics Materials Applications  
? Year: 2016  
? Type: Journal  
? Subtype: Article  
? Citations: 95  
? DOI: 10.1016/j.orgel.2016.05.034  
? Scopus ID: 2-s2.0-84974575282  
? Issn: 15661199  
? Volume: 36  
? Pages: 57-60  
? Authors: Spanu A.; Pinna L.; Viola F.; Seminara L.; Valle Maurizio; Bonfiglio A.; Cosseddu P.  
? Keywords: e-skin | Organic charge modulated FETs | Piezoelectric sensors  
? Quartile:

2025:

? Electrical and Electronic Engineering (Q2, rank 263, percentile 73)  
? Condensed Matter Physics (Q2, rank 128, percentile 71)  
? Chemistry (all) (Q2, rank 130, percentile 68)  
? Electronic, Optical and Magnetic Materials (Q2, rank 102, percentile 67)  
? Materials Chemistry (Q2, rank 129, percentile 60)  
? Biomaterials (Q2, rank 69, percentile 52)

2016:

? Materials Chemistry (Q1, rank 16, percentile 93)  
? Condensed Matter Physics (Q1, rank 33, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 64, percentile 90)  
? Electronic, Optical and Magnetic Materials (Q1, rank 26, percentile 88)  
? Chemistry (all) (Q1, rank 48, percentile 87)  
? Biomaterials (Q1, rank 17, percentile 76)

? Source Id: 18663

? Author Ids:

55801736500;35932431800;56396332300;19338029900;57197744325;7004010259;23979421700

? Authoraffiliationids: 60032259;60025153;60032259;60025153;60025153;60032259;60032259

? Corresponding: Spanu A.

125.

? Title: An event-driven POSFET taxel for sustained and transient sensing  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper

- ? Citations: 13  
? Doi: 10.1109/Iscas.2016.7527242  
? Scopus ID: 2-s2.0-84983457667  
? Issn: 02714310  
? Volume: 2016-July  
? Pages: 349-352  
? Authors: Caviglia Stefano; Pinna Luigi; Valle Maurizio; Bartolozzi Chiara  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2016:  
? Electrical and Electronic Engineering (Q3, rank 345, percentile 47)  
? Source Id: 56190  
? Author Ids: 56369796600;35932431800;57197744325;22940171400  
? Authoraffiliationids: 60025153;60025153;60025153;60102151  
? Corresponding: Caviglia S.
126.  
? Title: Wide range resistance to current conversion circuit for resistive gas sensors applications  
? Venue: 2016 12th Conference on Ph D Research in Microelectronics and Electronics Prime 2016  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 7  
? Doi: 10.1109/Prime.2016.7519537  
? Scopus ID: 2-s2.0-84992051959  
? Authors: Hijazi Zeinab; Caviglia Daniele; Valle Maurizio; Chible Hussein  
? Keywords: Linear current mirror | resistance to current conversion | resistive gas sensor | wide range  
? Source Id: 21100782632  
? Author Ids: 57188768487;7004012654;57197744325;7801443090  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774  
? Corresponding: Hijazi Z.
127.  
? Title: Towards the integration of e-skin into prosthetic devices  
? Venue: 2016 12th Conference on Ph D Research in Microelectronics and Electronics Prime 2016  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Prime.2016.7519546  
? Scopus ID: 2-s2.0-84992036329  
? Authors: Franceschi Marta; Seminara Lucia; Pinna Luigi; Valle Maurizio; Ibrahim Ali; Dosen Strahinja  
? Keywords: Electronic Skin | Embedded Electronic System | Prosthetic Devices  
? Source Id: 21100782632  
? Author Ids: 57038343300;19338029900;35932431800;57197744325;57199654883;23388778600  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153-60068774;60021110  
? Corresponding: Franceschi M.
128.  
? Title: Towards integrating intelligence in electronic skin  
? Venue: Mechatronics

? Year: 2016  
? Type: Journal  
? Subtype: Article  
? Citations: 33  
? DOI: 10.1016/j.mechatronics.2015.04.001  
? Scopus ID: 2-s2.0-84928676853  
? Issn: 09574158  
? Volume: 34  
? Pages: 84-94  
? Authors: Seminara Lucia; Pinna Luigi; Ibrahim Ali; Noli Luca; Caviglia Stefano; Gastaldo Paolo; Valle Maurizio  
? Keywords: E-skin | Electronic embedded systems | Materials integrated sensing | Piezoelectric polymers | Tactile information processing  
? Quartile:  
2025:  
? Mechanical Engineering (Q1, rank 144, percentile 80)  
? Electrical and Electronic Engineering (Q1, rank 208, percentile 79)  
? Control and Systems Engineering (Q1, rank 86, percentile 77)  
? Computer Science Applications (Q1, rank 240, percentile 75)  
2016:  
? Mechanical Engineering (Q1, rank 42, percentile 92)  
? Electrical and Electronic Engineering (Q1, rank 93, percentile 85)  
? Computer Science Applications (Q1, rank 80, percentile 85)  
? Source Id: 21096  
? Author Ids: 19338029900;35932431800;57199654883;6507179015;56369796600;35612596100;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Seminara L.  
129.  
? Title: Design of Operational Transconductance Amplifiers for voltage to current conversion in gas sensing applications  
? Venue: Aeit 2016 International Annual Conference Sustainable Development in the Mediterranean Area Energy and ICT Networks of the Future  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.23919/Aeit.2016.7892798  
? Scopus ID: 2-s2.0-85018388718  
? Authors: Hijazi Zeinab; Caviglia Daniele; Chible Hussein; Valle Maurizio  
? Keywords: Rail-to-Rail Folded Cascode OTA | resistive gas sensors | two stage compensated Capacitor Multiplier OTA | two stage compensated Miller OTA | voltage to current conversion  
? Source Id: 21100866813  
? Author Ids: 57188768487;7004012654;7801443090;57197744325  
? Authoraffiliationids: 60025153-60068774;60025153;60068774;60025153  
? Corresponding: Hijazi Z.  
130.  
? Title: Resiliency in nanometer CMOS systems: An overview  
? Venue: 2016 IEEE International Conference on Electronics Circuits and Systems Icces 2016  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper

? Citations: 0  
? Doi: 10.1109/Icecs.2016.7841257  
? Scopus ID: 2-s2.0-85015325839  
? Pages: 536-539  
? Authors: Ibrahim Ali; Valle Maurizio  
? Keywords: Nanoscale CMOS | Reliability | Resiliency | Variation Tolerant Design  
? Source Id: 21101179798  
? Author Ids: 57199654883;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Ibrahim A.

131.

? Title: High accuracy resistance to current circuit design for resistive gas sensor biomedical applications  
? Venue: 2015 International Conference on Advances in Biomedical Engineering Icabme 2015  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Icabme.2015.7323250  
? Scopus ID: 2-s2.0-84962820693  
? Pages: 57-60  
? Authors: Hijazi Zeinab; Caviglia Daniele; Valle Maurizio; Chible Hussein  
? Keywords: circuit accuracy | gas sensor | resistive sensor interface circuit | voltage to current converter  
? Source Id: 21100455479  
? Author Ids: 57188768487;7004012654;57197744325;7801443090  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774  
? Corresponding: Hijazi Z.

132.

? Title: Preliminary evaluation of the tactile feedback system based on artificial skin and electrotactile stimulation  
? Venue: Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society EMBS  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 13  
? Doi: 10.1109/Embc.2015.7319407  
? Scopus ID: 2-s2.0-84953324863  
? Issn: 1557170x  
? Volume: 2015-November  
? Pages: 4554-4557  
? Authors: Franceschi M.; Seminara L.; Pinna L.; Dosen S.; Farina D.; Valle M.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 585, percentile 41)  
2015:  
? Subject (Q3, rank 59, percentile 33)  
? Subject (Q3, rank 2279, percentile 30)  
? Subject (Q3, rank 46, percentile 28)  
? Subject (Q3, rank 132, percentile 28)  
? Subject (Q4, rank 43, percentile 21)  
? Source Id: 34202

? Author Ids: 57038343300;19338029900;35932431800;23388778600;7004908025;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60021110;60021110;60025153  
? Corresponding: Franceschi M.

133.

? Title: Assessment of FPGA implementations of one sided Jacobi algorithm for singular value decomposition  
? Venue: Proceedings of IEEE Computer Society Annual Symposium on VLSI lsvlsi  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 13  
? Doi: 10.1109/lsvlsi.2015.63  
? Scopus ID: 2-s2.0-84957034780  
? Issn: 21593469  
? eISSN: 21593477  
? Volume: 07-10-July-2015  
? Pages: 56-61  
? Authors: Ibrahim Ali; Valle Maurizio; Noli Luca; Chible Hussein  
? Keywords: Cordic method | FPGA implementations | One sided Jacobi algorithm | Singular value decomposition | Tactile data processing  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 646, percentile 35)  
? Control and Systems Engineering (Q3, rank 258, percentile 32)  
? Hardware and Architecture (Q4, rank 177, percentile 24)  
? Source Id: 21100286357  
? Author Ids: 57199654883;57197744325;6507179015;7801443090  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774  
? Corresponding: Ibrahim A.

134.

? Title: Indoor ranging and localisation algorithm based on received signal strength indicator using statistic parameters for wireless sensor networks  
? Venue: Iet Wireless Sensor Systems  
? Year: 2015  
? Type: Journal  
? Subtype: Article  
? Citations: 41  
? DOI: 10.1049/iet-wss.2014.0027  
? Scopus ID: 2-s2.0-84942510295  
? Issn: 20436386  
? eISSN: 20436394  
? Volume: 5  
? Issue: 5  
? Pages: 243-249  
? Authors: Pagano Saverio; Peirani Simone; Valle Maurizio  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q2, rank 147, percentile 64)  
2015:  
? Industrial and Manufacturing Engineering (Q1, rank 41, percentile 86)  
? Source Id: 19900192119  
? Author Ids: 56875265100;56875370100;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Pagano S.

135.

? Title: FPGA implementation of fixed point CORDIC-SVD for E-skin systems  
? Venue: 2015 11th Conference on Ph D Research in Microelectronics and Electronics Prime 2015  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Prime.2015.7251399  
? Scopus ID: 2-s2.0-84946882063  
? Pages: 318-321  
? Authors: Ibrahim Ali; Valle Maurizio; Noli Luca; Chible Hussein  
? Keywords: CORDIC modules | E-skin | Real time FPGA implementation | Singular Value Decomposition | Tensorial Kernel  
? Source Id: 21100423607  
? Author Ids: 57199654883;57197744325;6507179015;7801443090  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774  
? Corresponding: Ibrahim A.

136.

? Title: Singular value decomposition FPGA implementation for tactile data processing  
? Venue: Conference Proceedings 13th IEEE International New Circuits and Systems Conference Newcas 2015  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Newcas.2015.7182094  
? Scopus ID: 2-s2.0-84945157316  
? Authors: Ibrahim Ali; Valle Maurizio; Noli Luca; Chible Hussein  
? Keywords: Embedded electronic systems | One sided Jacobi algorithm | SVD FPGA implementation | Tensorial kernel  
? Source Id: 21100419258  
? Author Ids: 57199654883;57197744325;6507179015;7801443090  
? Authoraffiliationids: 60025153-60068774;60025153;60025153;60068774  
? Corresponding: Ibrahim A.

137.

? Title: Tactile data processing method for the reconstruction of contact force distributions  
? Venue: Mechatronics  
? Year: 2015  
? Type: Journal  
? Subtype: Article  
? Citations: 21  
? DOI: 10.1016/j.mechatronics.2015.02.001  
? Scopus ID: 2-s2.0-84926155544  
? Issn: 09574158  
? Volume: 27  
? Pages: 28-37  
? Authors: Seminara Lucia; Capurro Marco; Valle Maurizio  
? Keywords: Array signal processing | Force reconstruction | Inverse problems | Tactile sensors  
? Quartile:  
2025:  
? Mechanical Engineering (Q1, rank 144, percentile 80)

? Electrical and Electronic Engineering (Q1, rank 208, percentile 79)  
? Control and Systems Engineering (Q1, rank 86, percentile 77)  
? Computer Science Applications (Q1, rank 240, percentile 75)

2015:

? Mechanical Engineering (Q1, rank 46, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 98, percentile 85)  
? Computer Science Applications (Q1, rank 90, percentile 82)  
? Source Id: 21096  
? Author Ids: 19338029900;7004519617;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Seminara L.

138.

? Title: A tensor-based approach to touch modality classification by using machine learning  
? Venue: Robotics and Autonomous Systems  
? Year: 2015  
? Type: Journal  
? Subtype: Article  
? Citations: 48  
? DOI: 10.1016/j.robot.2014.09.022  
? Scopus ID: 2-s2.0-84919492826  
? Issn: 09218890  
? Volume: 63  
? Issue: P3  
? Pages: 268-278  
? Authors: Gastaldo P.; Pinna L.; Seminara L.; Valle M.; Zunino R.  
? Keywords: Array signal processing | Kernel machines | Machine learning | PVDF tactile sensors | Touch modality

? Quartile:  
2025:

? Mathematics (all) (Q1, rank 6, percentile 98)  
? Control and Systems Engineering (Q1, rank 46, percentile 88)  
? Software (Q1, rank 71, percentile 85)  
? Computer Science Applications (Q1, rank 143, percentile 85)

2015:

? Mathematics (all) (Q1, rank 10, percentile 97)  
? Control and Systems Engineering (Q1, rank 30, percentile 86)  
? Computer Science Applications (Q1, rank 71, percentile 86)  
? Software (Q1, rank 71, percentile 81)

? Source Id: 18079  
? Author Ids: 35612596100;35932431800;19338029900;57197744325;7006338311  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Gastaldo P.

139.

? Title: Tactile sensors with integrated piezoelectric polymer and low voltage organic thin-film transistors  
? Venue: Proceedings of IEEE Sensors  
? Year: 2014  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? Doi: 10.1109/lcsens.2014.6985358  
? Scopus ID: 2-s2.0-84931024078  
? Issn: 19300395

? eISSN: 21689229  
? Volume: 2014-December  
? Issue: December  
? Pages: 1734-1736  
? Authors: Cosseddu P.; Viola F.; Lai S.; Raffo L.; Seminara L.; Pinna L.; Valle M.; Dahiya R.; Bonfiglio A.  
? Keywords: Electronic skin | Organic TFTs | Piezoelectric polymers | Ultra-low voltage devices  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 687, percentile 31)  
2014:  
? Electrical and Electronic Engineering (Q3, rank 342, percentile 47)  
? Source Id: 74882  
? Author Ids: 23979421700;56396332300;54980367800;7003651730;19338029900;35932431800;57197744325;24331529200;7004010259  
? Authoraffiliationids: 60021199;60032259;60032259;60032259;60025153;60025153;60025153;60001490;60032259  
? Corresponding: Cosseddu P.  
140.  
? Title: Towards prosthetic systems providing comprehensive tactile feedback for utility and embodiment  
? Venue: IEEE 2014 Biomedical Circuits and Systems Conference Biocas 2014 Proceedings  
? Year: 2014  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 18  
? DOI: 10.1109/BioCAS.2014.6981802  
? Scopus ID: 2-s2.0-84920517469  
? Pages: 620-623  
? Authors: Hartmann C.; Linde J.; Dosen S.; Farina D.; Seminara L.; Pinna L.; Valle M.; Capurro M.  
? Keywords: closed-loop myoelectric prostheses | electro-tactile feedback | electronic skin | prosthesis embodiment | sensor fusion | spatial and intensity coding  
? Source Id: 21100364848  
? Author Ids: 37003647200;56470460700;23388778600;7004908025;19338029900;35932431800;57197744325;7004519617  
? Authoraffiliationids: 60021110;60021110;60021110;60021110;60025153;60025153;60025153;60025153  
? Corresponding: Hartmann C.  
141.  
? Title: Authors' reply  
? Venue: IEEE Sensors Journal  
? Year: 2014  
? Type: Journal  
? Subtype: Letter  
? Citations: 0  
? Doi: 10.1109/Jsen.2014.2353634  
? Scopus ID: 2-s2.0-84908061226  
? Issn: 1530437x  
? Volume: 14  
? Issue: 11  
? Pages: 4110  
? Authors: Dahiya Ravinder S.; Mittendorfer Philipp; Valle Maurizio; Cheng Gordon;

Lumelsky Vladimir J.

? Quartile:

2025:

? Instrumentation (Q1, rank 27, percentile 85)

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

2014:

? Instrumentation (Q1, rank 13, percentile 87)

? Electrical and Electronic Engineering (Q1, rank 99, percentile 84)

? Source Id: 15047

? Author Ids: 24331529200;39863226500;57197744325;10243873000;7005864063

? Authoraffiliationids: 60001490;60019722;60025153;60019722;60153131

? Corresponding: Dahiya R.S.

142.

? Title: Computational intelligence techniques for tactile sensing systems

? Venue: Sensors Switzerland

? Year: 2014

? Type: Journal

? Subtype: Article

? Citations: 31

? DOI: 10.3390/s140610952

? Scopus ID: 2-s2.0-84902988710

? Issn: 14248220

? Volume: 14

? Issue: 6

? Pages: 10952-10976

? Authors: Gastaldo Paolo; Pinna Luigi; Seminara Lucia; Valle Maurizio; Zunino Rodolfo

? Keywords: Computational intelligence | Electronic skin | Human-robot interaction |

Pattern recognition | Touch modalities

? 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)

2014:

? Electrical and Electronic Engineering (Q1, rank 103, percentile 84)

? Atomic and Molecular Physics, and Optics (Q1, rank 28, percentile 82)

? Analytical Chemistry (Q2, rank 35, percentile 64)

? Biochemistry (Q2, rank 176, percentile 53)

? Source Id: 130124

? Author Ids: 35612596100;35932431800;19338029900;57197744325;7006338311

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

? Corresponding: Gastaldo P.

143.

? Title: Robotic tactile sensing: Technologies and system

? Venue: Robotic Tactile Sensing Technologies and System

? Year: 2014

? Type: Book

? Subtype: Book

? Citations: 268

? Doi: 10.1007/978-94-007-0579-1

? Scopus ID: 2-s2.0-84930887791

? Volume: 9789400705791  
? Pages: 1-245  
? Authors: Dahiya Ravinder S.; Valle Maurizio  
? Source Id: 21100395466  
? Author Ids: 24331529200;57197744325  
? Authoraffiliationids: 60083112;60025153  
? Corresponding: Dahiya R.S.

144.

? Title: Asynchronous, event-driven readout of POSFET devices for tactile sensing  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2014  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 27  
? Doi: 10.1109/lscas.2014.6865717  
? Scopus ID: 2-s2.0-84907414934  
? Issn: 02714310  
? Pages: 2648-2651  
? Authors: Caviglia Stefano; Valle Maurizio; Bartolozzi Chiara  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
2014:  
? Electrical and Electronic Engineering (Q3, rank 366, percentile 43)  
? Source Id: 56190  
? Author Ids: 56369796600;57197744325;22940171400  
? Authoraffiliationids: 60025153;60025153;60102151  
? Corresponding: Caviglia S.

145.

? Title: Tactile sensing chips with POSFET array and integrated interface electronics  
? Venue: IEEE Sensors Journal  
? Year: 2014  
? Type: Journal  
? Subtype: Article  
? Citations: 58  
? Doi: 10.1109/Jsen.2014.2346742  
? Scopus ID: 2-s2.0-84906861470  
? Issn: 1530437x  
? Volume: 14  
? Issue: 10  
? Pages: 3448-3457  
? Authors: Dahiya Ravinder S.; Adami Andrea; Pinna Luigi; Collini Cristian; Valle Maurizio; Lorenzelli Leandro  
? Keywords: CMOS | POSFET | tactile sensing  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 27, percentile 85)  
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)  
2014:  
? Instrumentation (Q1, rank 13, percentile 87)  
? Electrical and Electronic Engineering (Q1, rank 99, percentile 84)  
? Source Id: 15047  
? Author Ids: 24331529200;57202790493;35932431800;23003664300;57197744325;6701719943  
? Authoraffiliationids: 60001490;60083112;60025153;60083112;60025153;60025153

- ? Corresponding: Dahiya R.S.  
146.
- ? Title: A tensor-based pattern-recognition framework for the interpretation of touch modality in artificial skin systems  
? Venue: IEEE Sensors Journal  
? Year: 2014  
? Type: Journal  
? Subtype: Article  
? Citations: 34  
? Doi: 10.1109/Jsen.2014.2320820  
? Scopus ID: 2-s2.0-84901917081  
? Issn: 1530437x  
? Volume: 14  
? Issue: 7  
? Pages: 2216-2225  
? Authors: Gastaldo Paolo; Pinna Luigi; Seminara Lucia; Valle Maurizio; Zunino Rodolfo  
? Keywords: artificial skin | kernel machines | machine learning | pattern recognition  
| Tactile sensors | touch modality interpretation  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 27, percentile 85)  
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)  
2014:  
? Instrumentation (Q1, rank 13, percentile 87)  
? Electrical and Electronic Engineering (Q1, rank 99, percentile 84)  
? Source Id: 15047  
? Author Ids: 35612596100;35932431800;19338029900;57197744325;7006338311  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Gastaldo P.
- 147.
- ? Title: Real-time reconstruction of contact shapes for large area robot skin  
? Venue: Proceedings IEEE International Conference on Robotics and Automation  
? Year: 2013  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 21  
? Doi: 10.1109/Icra.2013.6630897  
? Scopus ID: 2-s2.0-84887295706  
? Issn: 10504729  
? Pages: 2360-2366  
? Authors: Muscari Luca; Seminara Lucia; Mastrogiovanni Fulvio; Valle Maurizio; Capurro Marco; Cannata Giorgio  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 242, percentile 75)  
? Control and Systems Engineering (Q2, rank 97, percentile 74)  
? Software (Q2, rank 146, percentile 70)  
? Artificial Intelligence (Q2, rank 155, percentile 68)  
2013:  
? Electrical and Electronic Engineering (Q1, rank 97, percentile 84)  
? Control and Systems Engineering (Q1, rank 40, percentile 80)  
? Software (Q1, rank 90, percentile 75)  
? Artificial Intelligence (Q2, rank 49, percentile 67)  
? Source Id: 25456

? Author Ids: 55921933200;19338029900;56962745700;57197744325;7004519617;7005466764  
? Authoraffiliationids: 60121711;60025153;60121711;60025153;60025153;60121711  
? Corresponding: Muscari L.

148.

? Title: Directions toward effective utilization of tactile skin: A review  
? Venue: IEEE Sensors Journal  
? Year: 2013  
? Type: Journal  
? Subtype: Review  
? Citations: 387  
? Doi: 10.1109/Jsen.2013.2279056  
? Scopus ID: 2-s2.0-84884166128  
? Issn: 1530437x  
? Volume: 13  
? Issue: 11  
? Pages: 4121-4138  
? Authors: Dahiya Ravinder S.; Mittendorfer Philipp; Valle Maurizio; Cheng Gordon; Lumelsky Vladimir J.  
? Keywords: bendable electronics | embedded systems | interface electronics | modular | sensor fusion | Tactile skin  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 27, percentile 85)  
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)  
2013:  
? Instrumentation (Q1, rank 17, percentile 82)  
? Electrical and Electronic Engineering (Q1, rank 129, percentile 79)  
? Source Id: 15047  
? Author Ids: 24331529200;39863226500;57197744325;10243873000;7005864063  
? Authoraffiliationids: 60001490;60019722;60025153;60019722;60032179-60020304  
? Corresponding: Dahiya R.S.

149.

? Title: Piezoelectric polymer transducer arrays for flexible tactile sensors  
? Venue: IEEE Sensors Journal  
? Year: 2013  
? Type: Journal  
? Subtype: Article  
? Citations: 116  
? Doi: 10.1109/Jsen.2013.2268690  
? Scopus ID: 2-s2.0-84884145968  
? Issn: 1530437x  
? Volume: 13  
? Issue: 10  
? Pages: 4022-4029  
? Authors: Seminara Lucia; Pinna Luigi; Valle Maurizio; Basirico Laura; Loi Alberto; Cosseddu Piero; Bonfiglio Annalisa; Ascia Alberto; Biso Maurizio; Ansaldi Alberto; Ricci Davide; Metta Giorgio  
? Keywords: artificial skin | flexible sensors | ink jet printing | materials processing | PVDF piezoelectric transducers | robotic skin  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 27, percentile 85)  
? Electrical and Electronic Engineering (Q1, rank 175, percentile 82)  
2013:

? Instrumentation (Q1, rank 17, percentile 82)  
? Electrical and Electronic Engineering (Q1, rank 129, percentile 79)  
? Source Id: 15047  
? Author Ids: 19338029900;35932431800;57197744325;36812734200;55388529600;23979421700;7004010259;16052373800;23670194500;14833820700;35452031700;6602884280  
? Authoraffiliationids: 60025153;60025153;60025153;60032259;60032259;60032259;60032259;60102151;60102151;60102151;60102151;60102151  
? Corresponding: Seminara L.

150.

? Title: POSFET touch sensing transducers: Interface electronics design methodology based on the transconductance-to-drain-current efficiency gm/I D  
? Venue: Sensors and Actuators A Physical  
? Year: 2013  
? Type: Journal  
? Subtype: Article  
? Citations: 1  
? DOI: 10.1016/j.sna.2013.07.029  
? Scopus ID: 2-s2.0-84883346513  
? Issn: 09244247  
? Volume: 201  
? Pages: 377-386  
? Authors: Barboni Leonardo; Valle Maurizio  
? Keywords: Circuit design methodology | Interface circuit design | Piezoelectric polymer P(VDF-TrFE) | POSFET | Tactile sensing system | Touch sensing transducer | Transconductance-to-drain-current efficiency gm/ID  
? Quartile:

2025:

? Instrumentation (Q1, rank 23, percentile 88)  
? Condensed Matter Physics (Q1, rank 63, percentile 85)  
? Metals and Alloys (Q1, rank 26, percentile 85)  
? Electrical and Electronic Engineering (Q1, rank 153, percentile 84)  
? Surfaces, Coatings and Films (Q1, rank 26, percentile 81)  
? Electronic, Optical and Magnetic Materials (Q1, rank 58, percentile 81)

2013:

? Metals and Alloys (Q1, rank 14, percentile 90)  
? Surfaces, Coatings and Films (Q1, rank 11, percentile 89)  
? Instrumentation (Q1, rank 12, percentile 87)  
? Electronic, Optical and Magnetic Materials (Q1, rank 32, percentile 84)  
? Electrical and Electronic Engineering (Q1, rank 110, percentile 82)  
? Condensed Matter Physics (Q1, rank 70, percentile 82)

? Source Id: 13660

? Author Ids: 24474437700;57197744325

? Authoraffiliationids: 60071612;60025153

? Corresponding: Barboni L.

151.

? Title: Charge amplifier design methodology for PVDF-based tactile sensors  
? Venue: Journal of Circuits Systems and Computers  
? Year: 2013  
? Type: Journal  
? Subtype: Article  
? Citations: 44  
? Doi: 10.1142/S0218126613500667  
? Scopus ID: 2-s2.0-84884929254  
? Issn: 02181266

- ? Volume: 22  
? Issue: 8  
? Authors: Pinna Luigi; Valle Maurizio  
? Keywords: ASIC | charge amplifier | PVDF | SPICE | Tactile sensor  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q2, rank 494, percentile 50)  
? Hardware and Architecture (Q3, rank 131, percentile 44)  
2013:  
? Electrical and Electronic Engineering (Q3, rank 416, percentile 34)  
? Hardware and Architecture (Q4, rank 118, percentile 13)  
? Source Id: 26046  
? Author Ids: 35932431800;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Pinna L.
152.  
? Title: The ROBOSKIN Project: Challenges and Results  
? Venue: CISM International Centre for Mechanical Sciences Courses and Lectures  
? Year: 2013  
? Type: Book Series  
? Subtype: Book Chapter  
? Citations: 24  
? Doi: 10.1007/978-3-7091-1379-0\_43  
? Scopus ID: 2-s2.0-84903180711  
? Issn: 02541971  
? eISSN: 23093706  
? Volume: 544  
? Pages: 351-358  
? Authors: Billard Aude; Bonfiglio Annalisa; Cannata Giorgio; Cosseddu Piero; Dahl Torbjorn; Dautenhahn Kerstin; Mastrogiovanni Fulvio; Metta Giorgio; Natale Lorenzo; Robins Ben; Seminara Lucia; Valle Maurizio  
? Keywords: Humanoid Robot | Modular Robot | Robot Platform | Robot Programming | Tactile Feedback  
? Quartile:  
2025:  
? Mechanical Engineering (Q3, rank 505, percentile 31)  
? Modeling and Simulation (Q3, rank 261, percentile 30)  
? Mechanics of Materials (Q3, rank 300, percentile 27)  
? Computer Science Applications (Q3, rank 718, percentile 26)  
? Source Id: 20420  
? Author Ids: 7006389948;7004010259;7005466764;23979421700;25723210400;7003305185;56962745700;6602884280;9737895100;8585983100;19338029900;57197744325  
? Authoraffiliationids: 60028186;60032259;60025153;60032259;60017826;60032760;60025153;60102151;60102151;60032760;60025153;60025153  
? Corresponding: Billard A.
153.  
? Title: POSFET tactile sensing chips using CMOS technology  
? Venue: Proceedings of IEEE Sensors  
? Year: 2013  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 7  
? Doi: 10.1109/lcsens.2013.6688149  
? Scopus ID: 2-s2.0-84893917783

? Authors: Dahiya Ravinder S.; Adami Andrea; Collini Cristian; Valle Maurizio; Lorenzelli Leandro  
? Source Id: 21100785400  
? Author Ids: 24331529200;57202790493;23003664300;57197744325;6701719943  
? Authoraffiliationids: 60001490;60083112;60083112;60025153;60083112  
? Corresponding: Dahiya R.S.

154.

? Title: Piezoelectric polymer transducer arrays for flexible tactile sensors  
? Venue: Proceedings of IEEE Sensors  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 14  
? Doi: 10.1109/lcsens.2012.6411300  
? Scopus ID: 2-s2.0-84873958938  
? Authors: Seminara Lucia; Pinna Luigi; Valle Maurizio; Basirico Laura; Loi Alberto; Cosseddu Piero; Bonfiglio Annalisa; Asciano Alberto; Biso Maurizio; Ansaldi Alberto; Ricci Davide; Metta Giorgio  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 687, percentile 31)  
2012:  
? Electrical and Electronic Engineering (Q3, rank 410, percentile 33)  
? Source Id: 74882  
? Author Ids: 19338029900;35932431800;57197744325;36812734200;55388529600;23979421700;7004010259;16052373800;23670194500;14833820700;35452031700;6602884280  
? Authoraffiliationids: 60025153;60025153;60025153;60032259;60032259;60032259;60032259;60102151;60102151;60102151;60102151;60102151  
? Corresponding: Seminara L.

155.

? Title: Bending response of PVDF piezoelectric sensors  
? Venue: Proceedings of IEEE Sensors  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/lcsens.2012.6411405  
? Scopus ID: 2-s2.0-84873945403  
? Authors: Seminara Lucia; Valle Maurizio; Capurro Marco  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 687, percentile 31)  
2012:  
? Electrical and Electronic Engineering (Q3, rank 410, percentile 33)  
? Source Id: 74882  
? Author Ids: 19338029900;57197744325;7004519617  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Seminara L.

156.

? Title: Tactile sensing systems based on POSFET sensing arrays  
? Venue: Lecture Notes in Electrical Engineering  
? Year: 2012  
? Type: Book Series  
? Subtype: Conference Paper

? Citations: 1  
? Doi: 10.1007/978-1-4614-0935-9\_31  
? Scopus ID: 2-s2.0-84855822010  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 109 Lnee  
? Pages: 181-186  
? Authors: Dahiya R. S.; Cattin D.; Adami A.; Collini C.; Barboni L.; Valle M.; Lorenzelli L.; Oboe R.; Metta G.; Brunetti F.  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
2012:  
? Industrial and Manufacturing Engineering (Q3, rank 203, percentile 27)  
? Source Id: 19700186822  
? Author Ids: 24331529200;24586986300;57202790493;23003664300;24474437700;57197744325;6701719943;6701579829;6602884280;14008037600  
? Authoraffiliationids: 60083112;60000481;60083112;60083112;60025153;60025153;60083112;60000481;60102151;60027509  
? Corresponding: Dahiya R.S.

157.  
? Title: Piezoelectric polymer films for tactile sensors  
? Venue: Lecture Notes in Electrical Engineering  
? Year: 2012  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1007/978-1-4614-0935-9\_29  
? Scopus ID: 2-s2.0-84855819621  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 109 Lnee  
? Pages: 169-173  
? Authors: Seminara Lucia; Valle Maurizio; Capurro Marco; Cirillo Paolo; Cannata Giorgio  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
2012:  
? Industrial and Manufacturing Engineering (Q3, rank 203, percentile 27)  
? Source Id: 19700186822  
? Author Ids: 19338029900;57197744325;7004519617;7004361886;7005466764  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Seminara L.

158.  
? Title: POSFET touch sensing devices: Bias circuit design based on the ACM MOS transistor compact model  
? Venue: Lecture Notes in Electrical Engineering  
? Year: 2012  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1007/978-1-4614-0935-9\_32  
? Scopus ID: 2-s2.0-84855777269

- ? Issn: 18761100  
? eISSN: 18761119  
? Volume: 109 Lnee  
? Pages: 187-192  
? Authors: Barboni L.; Valle M.; Dahiya R. S.  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
2012:  
? Industrial and Manufacturing Engineering (Q3, rank 203, percentile 27)  
? Source Id: 19700186822  
? Author Ids: 24474437700;57197744325;24331529200  
? Authoraffiliationids: 60025153;60025153;60083112  
? Corresponding: Barboni L.
159.  
? Title: Indoors and outdoors event detection for embedded wireless sensors  
? Venue: Embedded Systems and Wireless Technology Theory and Practical Applications  
? Year: 2012  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 1  
? Scopus ID: 2-s2.0-85016683069  
? Pages: 139-162  
? Authors: Trinidad Marco Antonio Lpez; Valle Maurizio; Toledo Cora Beatriz Excelente  
? Source Id: 21100882528  
? Author Ids: 35194149600;57197744325;6506817321  
? Authoraffiliationids: 60095265;60025153;60095265  
? Corresponding: Trinidad M.A.L.
160.  
? Title: A scheme for measuring and extracting level-1 parameter of FET device applied toward POSFET sensors array  
? Venue: Proceedings of the International Conference on Microelectronics Icm  
? Year: 2011  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Icm.2011.6177351  
? Scopus ID: 2-s2.0-84860691664  
? Authors: Sinha Arun Kumar; Valle Maurizio  
? Keywords: algorithms | FET | flowchart | I-V characteristics | instruments | Level-1 parameters | POSFET  
? Source Id: 144854  
? Author Ids: 57203184223;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Sinha A.
161.  
? Title: An approach to realize high value resistance using PMOS device at weak inversion for POSFET sensor  
? Venue: Proceedings of the International Conference on Microelectronics Icm  
? Year: 2011  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Icm.2011.6177356

? Scopus ID: 2-s2.0-84860684386  
? Authors: Sinha Arun Kumar; Valle Maurizio  
? Keywords: MOS | POSFET | Resistance | Weak inversion  
? Source Id: 144854  
? Author Ids: 57203184223;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Sinha A.

162.

? Title: Interface electronics for tactile sensing arrays  
? Venue: 2011 18th IEEE International Conference on Electronics Circuits and Systems  
Icecs 2011  
? Year: 2011  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.1109/Icecs.2011.6122314  
? Scopus ID: 2-s2.0-84856483621  
? Pages: 468-471  
? Authors: Pinna Luigi; Carlini Giorgio; Seminara Lucia; Valle Maurizio  
? Source Id: 21100197501  
? Author Ids: 35932431800;6602861946;19338029900;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Pinna L.

163.

? Title: Smart readout design for tactile sensing devices  
? Venue: 2011 18th IEEE International Conference on Electronics Circuits and Systems  
Icecs 2011  
? Year: 2011  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Icecs.2011.6122316  
? Scopus ID: 2-s2.0-84856468366  
? Pages: 476-479  
? Authors: Barboni Leonardo; Valle Maurizio; Carlini Giorgio  
? Source Id: 21100197501  
? Author Ids: 24474437700;57197744325;6602861946  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Barboni L.

164.

? Title: Towards tactile sensing system on chip for robotic applications  
? Venue: IEEE Sensors Journal  
? Year: 2011  
? Type: Journal  
? Subtype: Article  
? Citations: 138  
? Doi: 10.1109/Jsen.2011.2159835  
? Scopus ID: 2-s2.0-80455137062  
? Issn: 1530437x  
? Volume: 11  
? Issue: 12  
? Pages: 3216-3226  
? Authors: Dahiya Ravinder S.; Cattin Davide; Adami Andrea; Collini Cristian; Barboni Leonardo; Valle Maurizio; Lorenzelli Leandro; Oboe Roberto; Metta Giorgio; Brunetti

Francesca

? Keywords: Humanoid robots | POSFET | robotic skin | tactile sensing | touch sensing system on chip

? Quartile:

2025:

? Instrumentation (Q1, rank 27, percentile 85)

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

2011:

? Instrumentation (Q1, rank 21, percentile 77)

? Electrical and Electronic Engineering (Q1, rank 142, percentile 75)

? Source Id: 15047

? Author Ids: 24331529200;24586986300;57202790493;23003664300;24474437700;57197744325;6701719943;6701579829;6602884280;14008037600

? Authoraffiliationids: 60083112;60000481;60083112;60083112;60025153;60025153;60083112;60000481;60102151;60027509

? Corresponding: Dahiya R.S.

165.

? Title: A generic framework for failure modes and effects analysis of automotive networks

? Venue: IEEE International Conference on Industrial Informatics Indin

? Year: 2011

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Doi: 10.1109/Indin.2011.6034891

? Scopus ID: 2-s2.0-80055003763

? Issn: 19354576

? Pages: 293-298

? Authors: Muller Candice; Valle Maurizio; Armengaud Eric; Tengg Allan

? Quartile:

2025:

? Information Systems (Q3, rank 332, percentile 33)

? Computer Science Applications (Q3, rank 695, percentile 29)

? Source Id: 10900153316

? Author Ids: 35198550100;57197744325;22978717400;19639373900

? Authoraffiliationids: 60025153;60025153;60102995;60102995

? Corresponding: Muller C.

166.

? Title: Electromechanical characterization of piezoelectric PVDF polymer films for tactile sensors in robotics applications

? Venue: Sensors and Actuators A Physical

? Year: 2011

? Type: Journal

? Subtype: Article

? Citations: 142

? DOI: 10.1016/j.sna.2011.05.004

? Scopus ID: 2-s2.0-79959695662

? Issn: 09244247

? Volume: 169

? Issue: 1

? Pages: 49-58

? Authors: Seminara Lucia; Capurro Marco; Cirillo Paolo; Cannata Giorgio; Valle Maurizio

? Keywords: Complex elastic moduli | Complex piezoelectric moduli | Piezoelectric

polymers | PVDF | Tactile sensors | Viscoelastic materials

? Quartile:

2025:

- ? Instrumentation (Q1, rank 23, percentile 88)
- ? Condensed Matter Physics (Q1, rank 63, percentile 85)
- ? Metals and Alloys (Q1, rank 26, percentile 85)
- ? Electrical and Electronic Engineering (Q1, rank 153, percentile 84)
- ? Surfaces, Coatings and Films (Q1, rank 26, percentile 81)
- ? Electronic, Optical and Magnetic Materials (Q1, rank 58, percentile 81)

2011:

- ? Instrumentation (Q1, rank 5, percentile 95)
- ? Metals and Alloys (Q1, rank 9, percentile 93)
- ? Surfaces, Coatings and Films (Q1, rank 11, percentile 88)
- ? Electrical and Electronic Engineering (Q1, rank 69, percentile 88)
- ? Condensed Matter Physics (Q1, rank 55, percentile 85)
- ? Electronic, Optical and Magnetic Materials (Q1, rank 29, percentile 84)

? Source Id: 13660

? Author Ids: 19338029900;7004519617;7004361886;7005466764;57197744325

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

? Corresponding: Seminara L.

167.

- ? Title: Bias circuit design for POSFET based tactile sensing devices
- ? Venue: 2011 7th Conference on Ph D Research in Microelectronics and Electronics Prime 2011 Conference Proceedings
- ? Year: 2011
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 2
- ? Doi: 10.1109/Prime.2011.5966240
- ? Scopus ID: 2-s2.0-80052253959
- ? Pages: 153-156
- ? Authors: Sinha Arun Kumar; Valle Maurizio
- ? Keywords: Bias resistance | MOS | POSFET | Weak inversion
- ? Source Id: 19900193806
- ? Author Ids: 57203184223;57197744325
- ? Authoraffiliationids: 60025153;60025153
- ? Corresponding: Sinha A.

168.

- ? Title: Design and simulation of automotive communication networks: The challenges
- ? Venue: Elektrotechnik Und Informationstechnik
- ? Year: 2011
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 0
- ? DOI: 10.1007/s00502-011-0008-6
- ? Scopus ID: 2-s2.0-80055063452
- ? Issn: 0932383x
- ? Volume: 128
- ? Issue: 6
- ? Pages: 228-233
- ? Authors: Muller C.; Valle M.
- ? Keywords: Communication networks | Flexray | Simulation
- ? Quartile:

2025:

- ? Electrical and Electronic Engineering (Q3, rank 749, percentile 25)  
2011:  
? Electrical and Electronic Engineering (Q4, rank 452, percentile 23)  
? Source Id: 144631  
? Author Ids: 35198550100;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Muller C.
169.  
? Title: Guest Editorial special issue on robotic sense of touch  
? Venue: IEEE Transactions on Robotics  
? Year: 2011  
? Type: Journal  
? Subtype: Review  
? Citations: 20  
? Doi: 10.1109/Tro.2011.2155830  
? Scopus ID: 2-s2.0-79958815134  
? Issn: 15523098  
? Volume: 27  
? Issue: 3  
? Pages: 385-388  
? Authors: Dahiya Ravinder S.; Metta Giorgio; Cannata Giorgio; Valle Maurizio  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 26, percentile 97)  
? Computer Science Applications (Q1, rank 30, percentile 96)  
? Control and Systems Engineering (Q1, rank 12, percentile 96)
- 2011:  
? Control and Systems Engineering (Q1, rank 3, percentile 98)  
? Computer Science Applications (Q1, rank 8, percentile 98)  
? Electrical and Electronic Engineering (Q1, rank 14, percentile 97)  
? Source Id: 95101  
? Author Ids: 24331529200;6602884280;7005466764;57197744325  
? Authoraffiliationids: 60083112;110646090;60025153;60025153  
? Corresponding: Dahiya R.S.
170.  
? Title: Tactile-data classification of contact materials using computational intelligence  
? Venue: IEEE Transactions on Robotics  
? Year: 2011  
? Type: Journal  
? Subtype: Article  
? Citations: 94  
? Doi: 10.1109/Tro.2011.2130030  
? Scopus ID: 2-s2.0-79958766030  
? Issn: 15523098  
? Volume: 27  
? Issue: 3  
? Pages: 635-639  
? Authors: Decherchi Sergio; Gastaldo Paolo; Dahiya Ravinder S.; Valle Maurizio; Zunino Rodolfo  
? Keywords: Computational intelligence (CI) | machine learning | material classification | tactile sensing | tactile-data processing  
? Quartile:  
2025:

? Electrical and Electronic Engineering (Q1, rank 26, percentile 97)  
? Computer Science Applications (Q1, rank 30, percentile 96)  
? Control and Systems Engineering (Q1, rank 12, percentile 96)  
2011:  
? Control and Systems Engineering (Q1, rank 3, percentile 98)  
? Computer Science Applications (Q1, rank 8, percentile 98)  
? Electrical and Electronic Engineering (Q1, rank 14, percentile 97)  
? Source Id: 95101  
? Author Ids: 23090052400;35612596100;24331529200;57197744325;7006338311  
? Authoraffiliationids: 60025153;60025153;60083112;60025153;60025153  
? Corresponding: Decherchi S.

171.  
? Title: Identification and validation of a lumped parameters model for the dielectric relaxation of a piezoelectric tactile sensor  
? Venue: IEEE International Symposium on Industrial Electronics  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Isie.2010.5637679  
? Scopus ID: 2-s2.0-78650368206  
? Pages: 452-457  
? Authors: Cattin D.; Oboe R.; Dahiya R. S.; Valle M.  
? Source Id: 85690  
? Author Ids: 24586986300;6701579829;24331529200;57197744325  
? Authoraffiliationids: 60000481;60000481;60102151;60025153  
? Corresponding: Cattin D.

172.  
? Title: Analysis of self-powered vibration-based energy scavenging system  
? Venue: IEEE International Symposium on Industrial Electronics  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? Doi: 10.1109/Isie.2010.5637866  
? Scopus ID: 2-s2.0-78650366312  
? Pages: 402-408  
? Authors: Pinna Luigi; Dahiya Ravinder S.; De Nisi Fabrizio; Valle Maurizio  
? Source Id: 85690  
? Author Ids: 35932431800;24331529200;36727113800;57197744325  
? Authoraffiliationids: 60025153;60102151;109728427;60025153  
? Corresponding: Pinna L.

173.  
? Title: Interface electronics design for POSFET devices based tactile sensing systems  
? Venue: Proceedings IEEE International Workshop on Robot and Human Interactive Communication  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Roman.2010.5598610  
? Scopus ID: 2-s2.0-78649870611  
? Pages: 686-690  
? Authors: Barboni Leonardo; Dahiya Ravinder S.; Metta Giorigio; Valle Maurizio

- ? Source Id: 144690  
? Author Ids: 24474437700;24331529200;6602884280;57197744325  
? Authoraffiliationids: 60025153;60102151;60102151;60025153  
? Corresponding: Barboni L.
174.  
? Title: Modular skin for humanoid robot systems  
? Venue: 4th International Conference on Cognitive Systems Cogsys 2010  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 30  
? Scopus ID: 2-s2.0-84878298648  
? Authors: Cannata Giorgio; Dahiya Ravinder; Maggiali Marco; Mastrogiovanni Fulvio; Metta Giorgio; Valle Maurizio  
? Source Id: 21100241759  
? Author Ids: 7005466764;24331529200;15834880000;56962745700;6602884280;57197744325  
? Authoraffiliationids: 60025153;60102151;60102151;60025153;60102151;60025153  
? Corresponding: Cannata G.
175.  
? Title: A systematic developmentmethodology formixed-mode behavioralmodels of in-vehicle embedded electronic systems  
? Venue: Eurasip Journal on Embedded Systems  
? Year: 2010  
? Type: Journal  
? Subtype: Article  
? Citations: 3  
? Doi: 10.1155/2010/726286  
? Scopus ID: 2-s2.0-84866849876  
? Issn: 16873955  
? eISSN: 16873963  
? Volume: 2010  
? Authors: Muller Candice; Valle Maurizio; Prodanov William; Buzas Roman  
? Source Id: 4000151614  
? Author Ids: 35198550100;57197744325;14632476600;24586819000  
? Authoraffiliationids: 60025153;60025153;;  
? Corresponding: Muller C.
176.  
? Title: System verification of flexray communication networks through behavioral simulations  
? Venue: Proceedings of the IEEE International Workshop on Behavioral Modeling and Simulation Bmas  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Bmas.2010.6156589  
? Scopus ID: 2-s2.0-84860715254  
? Issn: 21603804  
? eISSN: 21603812  
? Pages: 1-6  
? Authors: Muller Candice; Valle Maurizio  
? Source Id: 21100201951  
? Author Ids: 35198550100;57197744325  
? Authoraffiliationids: 60025153;60025153

- ? Corresponding: Muller C.  
177.  
? Title: In-vehicle communication network statistical analysis using VHDL-AMS behavioral models  
? Venue: 6th Conference on Ph D Research in Microelectronics and Electronics Prime 2010  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Scopus ID: 2-s2.0-78049497796  
? Authors: Muller Candice; Valle Maurizio  
? Source Id: 19700182213  
? Author Ids: 35198550100;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Muller C.
178.  
? Title: CMOS implementation of POSFET tactile sensing arrays with on chip readout  
? Venue: Proceedings 4th International Conference on Sensor Technologies and Applications Sensorcomm 2010  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 8  
? Doi: 10.1109/Sensorcomm.2010.19  
? Scopus ID: 2-s2.0-77957944404  
? Pages: 80-83  
? Authors: Dahiya Ravinder S.; Adami Andrea; Valle Maurizio; Lorenzelli Leandro; Metta Giorgio  
? Keywords: POSFET | Read out | Robotics | Tactile sensing  
? Source Id: 19700181275  
? Author Ids: 24331529200;57202790493;57197744325;6701719943;6602884280  
? Authoraffiliationids: 60102151;60083112;60025153;60083112;60102151  
? Corresponding: Dahiya R.S.
179.  
? Title: POSFET devices based tactile sensing arrays  
? Venue: Iscas 2010 2010 IEEE International Symposium on Circuits and Systems Nano Bio Circuit Fabrics and Systems  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 22  
? Doi: 10.1109/Iscas.2010.5537414  
? Scopus ID: 2-s2.0-77955991384  
? Pages: 893-896  
? Authors: Dahiya Ravinder S.; Lorenzelli Leandro; Metta Giorgio; Valle Maurizio  
? Source Id: 19700177312  
? Author Ids: 24331529200;6701719943;6602884280;57197744325  
? Authoraffiliationids: 60102151;60083112;60102151-60025153;60025153  
? Corresponding: Dahiya R.S.
180.  
? Title: Identification and validation of a fractional order dynamic model for a piezoelectric tactile sensor  
? Venue: International Workshop on Advanced Motion Control AMC  
? Year: 2010

? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Amc.2010.5464092  
? Scopus ID: 2-s2.0-77953741566  
? Pages: 430-435  
? Authors: Cattin D.; Oboe R.; Dahiya R. S.; Valle M.  
? Source Id: 93668  
? Author Ids: 24586986300;6701579829;24331529200;57197744325  
? Authoraffiliationids: 60000481;60000481;60102151;60025153  
? Corresponding: Cattin D.

181.

? Title: Signal conditioning system analysis for adaptive signal processing in wireless sensors  
? Venue: Lecture Notes in Electrical Engineering  
? Year: 2010  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1007/978-90-481-3606-3\_56  
? Scopus ID: 2-s2.0-78651557209  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 54 Lnee  
? Pages: 291-294  
? Authors: Barboni Leonardo; Valle Maunzio  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
? Source Id: 19700186822  
? Author Ids: 24474437700;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Barboni L.

182.

? Title: Piezo-polymer-FET devices based tactile sensors for humanoid robots  
? Venue: Lecture Notes in Electrical Engineering  
? Year: 2010  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1007/978-90-481-3606-3\_74  
? Scopus ID: 2-s2.0-78651524750  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 54 Lnee  
? Pages: 369-372  
? Authors: Dahiya Ravinder S.; Metta Giorgio; Valle Maurizio; Lorenzelli Leandro; Adami Andrea  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
? Source Id: 19700186822  
? Author Ids: 24331529200;6602884280;57197744325;6701719943;57202790493  
? Authoraffiliationids: 60102151;60102151;60025153;60083112;60083112

- ? Corresponding: Dahiya R.S.  
183.  
? Title: Tactile sensing-from humans to humanoids  
? Venue: IEEE Transactions on Robotics  
? Year: 2010  
? Type: Journal  
? Subtype: Article  
? Citations: 1564  
? Doi: 10.1109/Tro.2009.2033627  
? Scopus ID: 2-s2.0-77049120711  
? Issn: 15523098  
? Volume: 26  
? Issue: 1  
? Pages: 1-20  
? Authors: Dahiya Ravinder S.; Metta Giorgio; Valle Maurizio; Sandini Giulio  
? Keywords: Cutaneous sensing | Extrinsic sensing | Humanoid robots | Robotic skin | Tactile sensing | Touch sensing system  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 26, percentile 97)  
? Computer Science Applications (Q1, rank 30, percentile 96)  
? Control and Systems Engineering (Q1, rank 12, percentile 96)  
? Source Id: 95101  
? Author Ids: 24331529200;6602884280;57197744325;35280694500  
? Authoraffiliationids: 60102151;60102151-60025153;60025153;60102151-60025153  
? Corresponding: Dahiya R.S.
184.  
? Title: Thermal simulation and package investigation of wireless gas sensors microsystems  
? Venue: 15th International Workshop on Thermal Investigations of Ics and Systems Therminic 2009  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Scopus ID: 2-s2.0-71749104677  
? Pages: 66-69  
? Authors: Paoli Andrea; Seminara Lucia; Caviglia Daniele D.; Garibbo Alessandro; Valle Maurizio  
? Source Id: 19500157016  
? Author Ids: 58768885200;19338029900;7004012654;6506630356;57197744325  
? Authoraffiliationids: 60025153;60083763;60025153;60083763;60025153  
? Corresponding: Paoli A.
185.  
? Title: Design and fabrication of posfet devices for tactile sensing  
? Venue: Transducers 2009 15th International Conference on Solid State Sensors Actuators and Microsystems  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 44  
? Doi: 10.1109/Sensor.2009.5285684  
? Scopus ID: 2-s2.0-71449101274  
? Pages: 1881-1884

? Authors: Dahiya R. S.; Valle M.; Metta G.; Lorenzelli L.; Adami A.  
? Keywords: Piezoelectric polymer-FET | POSFET | Sensotronics | Tactile sensing | Touch sensor  
? Source Id: 19500156801  
? Author Ids: 24331529200;57197744325;6602884280;6701719943;57202790493  
? Authoraffiliationids: 60102151;60025153;60102151-60025153;60083112;60083112  
? Corresponding: Dahiya R.S.

186.

? Title: Mixed-mode behavioral model of flexray physical layer transceiver  
? Venue: Ecctd 2009 European Conference on Circuit Theory and Design Conference Program  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 10  
? Doi: 10.1109/Ecctd.2009.5275043  
? Scopus ID: 2-s2.0-71249152893  
? Pages: 527-530  
? Authors: Muller Candice; Valle Maurizio; Buzas Roman; Skoupy Augustin  
? Source Id: 19400158908  
? Author Ids: 35198550100;57197744325;24586819000;7801335648  
? Authoraffiliationids: 60025153;60025153;106456454;106456454  
? Corresponding: Muller C.

187.

? Title: Reliable event detectors for constrained resources wireless sensor node hardware  
? Venue: Eurasip Journal on Embedded Systems  
? Year: 2009  
? Type: Journal  
? Subtype: Article  
? Citations: 3  
? Doi: 10.1155/2009/474903  
? Scopus ID: 2-s2.0-71049171141  
? Issn: 16873955  
? eISSN: 16873963  
? Volume: 2009  
? Authors: Lpez Trinidad Marco Antonio; Valle Maurizio  
? Source Id: 4000151614  
? Author Ids: 35194149600;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Lpez Trinidad M.A.

188.

? Title: Development and characterization of touch sensing devices for robotic applications  
? Venue: IECON Proceedings Industrial Electronics Conference  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 7  
? Doi: 10.1109/lecon.2009.5415057  
? Scopus ID: 2-s2.0-77951607411  
? Pages: 4245-4250  
? Authors: Dahiya Ravinder S.; Valle Maurizio; Oboe Roberto; Cattin Davide  
? Source Id: 56670  
? Author Ids: 24331529200;57197744325;6701579829;24586986300

- ? Authoraffiliationids: 60102151;60025153;60000481;60000481  
? Corresponding: Dahiya R.  
189.  
? Title: Signal-to-noise ratio evaluation for embedded wireless sensor nodes: A novel methodology  
? Venue: 2009 16th IEEE International Conference on Electronics Circuits and Systems  
Icecs 2009  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Icecs.2009.5410820  
? Scopus ID: 2-s2.0-77951465430  
? Pages: 940-943  
? Authors: Barboni Leonardo; Valle Maurizio  
? Source Id: 19700171821  
? Author Ids: 24474437700;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Barboni L.  
190.  
? Title: SPICE model for Piezoelectric Bender generators  
? Venue: 2009 16th IEEE International Conference on Electronics Circuits and Systems  
Icecs 2009  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? Doi: 10.1109/Icecs.2009.5410851  
? Scopus ID: 2-s2.0-77951427235  
? Pages: 587-590  
? Authors: Pinna Luigi; Dahiya Ravinder S.; Valle Maurizio  
? Source Id: 19700171821  
? Author Ids: 35932431800;24331529200;57197744325  
? Authoraffiliationids: 60025153;60102151;60025153  
? Corresponding: Pinna L.  
191.  
? Title: Piezoelectric polymer oxide semiconductor field effect transistor (POSFET) devices for touch sensing  
? Venue: 2009 2nd International Workshop on Electron Devices and Semiconductor Technology ledst 09  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Edst.2009.5166118  
? Scopus ID: 2-s2.0-77949888721  
? Authors: Dahiya Ravinder S.; Metta Giorgio; Valle Maurizio  
? Keywords: Piezo-FET | Piezoelectric polymers | POSFET | PVDF-TrFE | Robotics | Touch sensor  
? Source Id: 19700168101  
? Author Ids: 24331529200;6602884280;57197744325  
? Authoraffiliationids: 60102151;60102151-60025153;60025153  
? Corresponding: Dahiya R.  
192.

? Title: Low-noise low-power CMOS preamplifier for multisite extracellular neuronal recordings  
? Venue: Microelectronics Journal  
? Year: 2009  
? Type: Journal  
? Subtype: Article  
? Citations: 12  
? DOI: 10.1016/j.mejo.2009.10.003  
? Scopus ID: 2-s2.0-70449639539  
? Issn: 00262692  
? Volume: 40  
? Issue: 12  
? Pages: 1779-1787  
? Authors: Bottino Emanuele; Massobrio Paolo; Martinoia Sergio; Pruzzo Giacomo; Valle Maurizio  
? Keywords: Integrated high value resistance | Integrated low-noise preamplifier | Micro-electrode arrays | Neuro-electronic interface | Spontaneous electrophysiological activity recording | Standard CMOS technology  
? Source Id: 9500153939  
? Author Ids: 9639667500;55223181700;7003906450;24450949600;57197744325  
? Authoraffiliationids: 60069032;60025153;60025153-60102151;60102151;60025153  
? Corresponding: Bottino E.

193.

? Title: Bio inspired tactile sensing arrays  
? Venue: Proceedings of SPIE the International Society for Optical Engineering  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 15  
? Doi: 10.1117/12.821696  
? Scopus ID: 2-s2.0-69949155060  
? Issn: 0277786x  
? Volume: 7365  
? Authors: Dahiya Ravinder S.; Valle Maurizio; Mettaa Giorgio; Lorenzelli Leandro  
? Keywords: Human touch | MEA | Piezoelectric polymer | POSFET | PVDF-TrFE | Robotics | Tactile sensing | Touch sensor  
? Quartile:  
2025:  
? Instrumentation (Q4, rank 157, percentile 16)  
? Electrical and Electronic Engineering (Q4, rank 873, percentile 12)  
? Computer Science Applications (Q4, rank 893, percentile 9)  
? Applied Mathematics (Q4, rank 625, percentile 6)  
? Electronic, Optical and Magnetic Materials (Q4, rank 294, percentile 5)  
? Condensed Matter Physics (Q4, rank 425, percentile 4)  
? Source Id: 40067  
? Author Ids: 24331529200;57197744325;6602884280;6701719943  
? Authoraffiliationids: 60102151;60025153;60025153;60011451  
? Corresponding: Dahiya R.S.

194.

? Title: A controller area network bus transceiver behavioral model for network design and simulation  
? Venue: IEEE Transactions on Industrial Electronics  
? Year: 2009  
? Type: Journal

? Subtype: Article  
? Citations: 42  
? Doi: 10.1109/Tie.2009.2025298  
? Scopus ID: 2-s2.0-69349097976  
? Issn: 02780046  
? Volume: 56  
? Issue: 9  
? Pages: 3762-3771  
? Authors: Prodanov William; Valle Maurizio; Buzas Roman  
? Keywords: Behavioral modeling and simulation | CAN bus transceivers and networks | Controller Area Network (CAN) | Fault simulation and analysis | Mixed-signal integrated circuits | Signal integrity analysis | VHDL-AMS  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)  
? Control and Systems Engineering (Q1, rank 17, percentile 95)  
? Source Id: 26053  
? Author Ids: 14632476600;57197744325;24586819000  
? Authoraffiliationids: 60017609;60025153;60091770  
? Corresponding: Prodanov W.

195.

? Title: High abstraction level CAD tool implementation of MOS drain current models  
? Venue: Microelectronics Journal  
? Year: 2009  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? DOI: 10.1016/j.mejo.2009.05.001  
? Scopus ID: 2-s2.0-67651238454  
? Issn: 00262692  
? Volume: 40  
? Issue: 8  
? Pages: 1225-1234  
? Authors: Prodanov William; Valle Maurizio  
? Keywords: Behavioural modelling | CAD tools | MOS drain current model | Sample-and-hold circuit | Technological parameters extraction  
? Source Id: 9500153939  
? Author Ids: 14632476600;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Prodanov W.

196.

? Title: Piezoelectric oxide semiconductor field effect transistor touch sensing devices  
? Venue: Applied Physics Letters  
? Year: 2009  
? Type: Journal  
? Subtype: Article  
? Citations: 160  
? Doi: 10.1063/1.3184579  
? Scopus ID: 2-s2.0-67651245426  
? Issn: 00036951  
? Volume: 95  
? Issue: 3  
? Authors: Dahiya Ravinder S.; Metta Giorgio; Valle Maurizio; Adami Andrea; Lorenzelli

Leandro

? Quartile:

2025:

? Physics and Astronomy (miscellaneous) (Q1, rank 17, percentile 81)

? Source Id: 27030

? Author Ids: 24331529200;6602884280;57197744325;57202790493;6701719943

? Authoraffiliationids: 60102151;60102151-60025153;60025153;107323410;107323410

? Corresponding: Dahiya R.S.

197.

? Title: Development of fingertip tactile sensing chips for humanoid robots

? Venue: IEEE 2009 International Conference on Mechatronics Icm 2009

? Year: 2009

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 28

? Doi: 10.1109/Icmech.2009.4957166

? Scopus ID: 2-s2.0-67650286857

? Authors: Dahiya Ravinder S.; Metta G.; Valle M.

? Keywords: MEA | Tactile sensing | Tactile sensing arrays

? Source Id: 17800156705

? Author Ids: 24331529200;6602884280;57197744325

? Authoraffiliationids: 60102151;60102151;60025153

? Corresponding: Dahiya R.S.

198.

? Title: Erratum: SPICE model for lossy piezoelectric polymers (IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (2009) 56:2 387-395))

? Venue: IEEE Transactions on Ultrasonics Ferroelectrics and Frequency Control

? Year: 2009

? Type: Journal

? Subtype: Erratum

? Citations: 1

? Doi: 10.1109/Tuffc.2009.1172

? Scopus ID: 2-s2.0-67651173132

? Issn: 08853010

? Volume: 56

? Issue: 6

? Pages: 1288

? Authors: Dahiya Ravinder; Valle Maurizio; Lorenzelli Leandro

? Quartile:

2025:

? Acoustics and Ultrasonics (Q1, rank 4, percentile 93)

? Instrumentation (Q1, rank 20, percentile 89)

? Electrical and Electronic Engineering (Q1, rank 138, percentile 86)

? Source Id: 12998

? Author Ids: 24331529200;57197744325;6701719943

? Authoraffiliationids: 60102151-60025153;60025153;60011451

? Corresponding: Dahiya R.

199.

? Title: SPICE model for lossy piezoelectric polymers

? Venue: IEEE Transactions on Ultrasonics Ferroelectrics and Frequency Control

? Year: 2009

? Type: Journal

? Subtype: Article

? Citations: 56

- ? Doi: 10.1109/Tuffc.2009.1048  
? Scopus ID: 2-s2.0-62349140425  
? Issn: 08853010  
? Volume: 56  
? Issue: 2  
? Pages: 387-395  
? Authors: Dahiya Ravinder S.; Valle Maurizio; Lorenzelli Leandro  
? Quartile:  
2025:  
? Acoustics and Ultrasonics (Q1, rank 4, percentile 93)  
? Instrumentation (Q1, rank 20, percentile 89)  
? Electrical and Electronic Engineering (Q1, rank 138, percentile 86)  
? Source Id: 12998  
? Author Ids: 24331529200;57197744325;6701719943  
? Authoraffiliationids: 60102151-60025153;60025153;60011451  
? Corresponding: Dahiya R.S.  
200.  
? Title: System approach: A paradigm for robotic tactile sensing  
? Venue: International Workshop on Advanced Motion Control AMC  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 17  
? Doi: 10.1109/Amc.2008.4516050  
? Scopus ID: 2-s2.0-67650334746  
? Volume: 1  
? Pages: 110-115  
? Authors: Dahiya Ravinder S.; Valle Maurizio; Metta Giorgio  
? Source Id: 93668  
? Author Ids: 24331529200;57197744325;6602884280  
? Authoraffiliationids: 60102151-60025153;60025153;60102151-60025153  
? Corresponding: Dahiya R.  
201.  
? Title: Deposition, processing and characterization of P(VDFTrFE) thin films for sensing applications  
? Venue: Proceedings of IEEE Sensors  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 43  
? Doi: 10.1109/Icsens.2008.4716484  
? Scopus ID: 2-s2.0-67649949750  
? Pages: 490-493  
? Authors: Dahiya Ravinder S.; Valle Maurizio; Metta Giorgio; Lorenzelli Leandro; Pedrotti Severino  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 687, percentile 31)  
? Source Id: 74882  
? Author Ids: 24331529200;57197744325;6602884280;6701719943;26768133600  
? Authoraffiliationids: 60025153-60102151;60025153;60025153-60102151;60083112;60083112  
? Corresponding: Dahiya R.S.  
202.  
? Title: SPICE model of lossy piezoelectric polymers

- ? Venue: IEEE International Symposium on Applications of Ferroelectrics  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.1109/Isaf.2008.4693877  
? Scopus ID: 2-s2.0-58149526290  
? Volume: 2  
? Authors: Dahiya R. S.; Valle M.; Lorenzelli L.  
? Source Id: 28024  
? Author Ids: 24331529200;57197744325;6602884280;6701719943  
? Authoraffiliationids: 60025153-60102151;60025153;60025153-60102151;60011451  
? Corresponding: Dahiya R.S.
203.  
? Title: Wireless sensor networks power-aware deployment  
? Venue: Proceedings 2nd Int Conf Sensor Technol Appl Sensorcomm 2008 Includes Mesh 2008 Conf Mesh Networks Enopt 2008 Energy Optim Wireless Sensors Networks Unwat 2008 Under Water Sensors Systems  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Sensorcomm.2008.48  
? Scopus ID: 2-s2.0-55849125843  
? Pages: 252-257  
? Authors: Barboni Leonardo; Valle Maurizio  
? Source Id: 12600154774  
? Author Ids: 24474437700;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Barboni L.
204.  
? Title: Experimental analysis of wireless sensor nodes current consumption  
? Venue: Proceedings 2nd Int Conf Sensor Technol Appl Sensorcomm 2008 Includes Mesh 2008 Conf Mesh Networks Enopt 2008 Energy Optim Wireless Sensors Networks Unwat 2008 Under Water Sensors Systems  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 31  
? Doi: 10.1109/Sensorcomm.2008.14  
? Scopus ID: 2-s2.0-55849103559  
? Pages: 401-406  
? Authors: Barboni Leonardo; Valle Maurizio  
? Source Id: 12600154774  
? Author Ids: 24474437700;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Barboni L.
205.  
? Title: "Soft" acoustic event detectors for limited resources platforms  
? Venue: 2008 3rd International Symposium on Communications Control and Signal Processing ISCCSP 2008  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper

? Citations: 0  
? Doi: 10.1109/lscccsp.2008.4537475  
? Scopus ID: 2-s2.0-50649099037  
? Pages: 1559-1564  
? Authors: Trinidad Marco Antonio López; Valle Maurizio  
? Source Id: 12100155431  
? Author Ids: 35194149600;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Trinidad M.A.L.

206.

? Title: Modeling of lossy piezoelectric polymers in SPICE  
? Venue: Proceedings of SPIE the International Society for Optical Engineering  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1117/12.776839  
? Scopus ID: 2-s2.0-44349140189  
? Issn: 0277786x  
? Volume: 6926  
? Authors: Dahiya Ravinder S.; Valle Maurizio; Metta Giorgio; Lorenzelli Leandro  
? Keywords: Losses | Modeling | Piezoelectric polymers | SPICE  
? Quartile:

2025:

? Instrumentation (Q4, rank 157, percentile 16)  
? Electrical and Electronic Engineering (Q4, rank 873, percentile 12)  
? Computer Science Applications (Q4, rank 893, percentile 9)  
? Applied Mathematics (Q4, rank 625, percentile 6)  
? Electronic, Optical and Magnetic Materials (Q4, rank 294, percentile 5)  
? Condensed Matter Physics (Q4, rank 425, percentile 4)

? Source Id: 40067

? Author Ids: 24331529200;57197744325;6602884280;6701719943  
? Authoraffiliationids: 60102151-60025153;60025153;60102151-60025153;60011451  
? Corresponding: Dahiya R.S.

207.

? Title: A comparative study of various probability density estimation methods for data analysis  
? Venue: International Journal of Computational Intelligence Systems  
? Year: 2008  
? Type: Journal  
? Subtype: Article  
? Citations: 9  
? DOI: 10.2991/ijcis.2008.1.2.9  
? Scopus ID: 2-s2.0-77952312566  
? Issn: 18756891  
? eISSN: 18756883  
? Volume: 1  
? Issue: 2  
? Pages: 188-201  
? Authors: Assenza Alex; Valle Maurizio; Verleysen Michel  
? Keywords: Finite gaussian mixtures | Parzen windows | Probability density function estimation  
? Quartile:  
2025:

- ? Computational Mathematics (Q1, rank 25, percentile 88)  
? Computer Science (all) (Q1, rank 61, percentile 75)  
? Source Id: 17800156712  
? Author Ids: 17433662100;57197744325;7003876274  
? Authoraffiliationids: 60025153;60025153;60000874  
? Corresponding: Assenza A.
208.  
? Title: A comparative study of various probability density estimation methods for data analysis  
? Venue: International Journal of Computational Intelligence Systems  
? Year: 2008  
? Type: Journal  
? Subtype: Article  
? Citations: 1  
? Doi: 10.1080/18756891.2008.9727616  
? Scopus ID: 2-s2.0-85024202903  
? Issn: 18756891  
? eISSN: 18756883  
? Volume: 1  
? Issue: 2  
? Pages: 188-201  
? Authors: Assenza Alex; Valle Maurizio; Verleysen Michel  
? Keywords: Finite Gaussian mixtures | Parzen windows | Probability Density Function estimation  
? Quartile:  
2025:  
? Computational Mathematics (Q1, rank 25, percentile 88)  
? Computer Science (all) (Q1, rank 61, percentile 75)  
? Source Id: 17800156712  
? Author Ids: 17433662100;57197744325;7003876274  
? Authoraffiliationids: 60025153;60025153;60000874  
? Corresponding: Assenza A.
209.  
? Title: A mixed-mode behavioral model of a Controller-Area-Network bus transceiver: A case study  
? Venue: 2007 IEEE International Behavioral Modeling and Simulation Workshop Bmas  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 13  
? Doi: 10.1109/Bmas.2007.4437527  
? Scopus ID: 2-s2.0-51349126239  
? Pages: 67-72  
? Authors: Prodanov William; Valle Maurizio; Buzas Roman; Pierscinski Hubert  
? Source Id: 12100156614  
? Author Ids: 14632476600;57197744325;24586819000;24587906900  
? Authoraffiliationids: 60025153;60025153;106221214;106221214  
? Corresponding: Prodanov W.
210.  
? Title: POSFET based tactile sensor arrays  
? Venue: Proceedings of the IEEE International Conference on Electronics Circuits and Systems  
? Year: 2007  
? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 32  
? Doi: 10.1109/Icecs.2007.4511180  
? Scopus ID: 2-s2.0-50649125781  
? Pages: 1075-1078  
? Authors: Dahiya Ravinder S.; Valle Maurizio; Metta Giorgio; Lorenzelli Leandro  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q4, rank 913, percentile 8)  
? Source Id: 91096  
? Author Ids: 24331529200;57197744325;6602884280;6701719943  
? Authoraffiliationids: 60102151-60025153;60025153;60102151-60025153;60011451  
? Corresponding: Dahiya R.S.

211.

? Title: Evaluating energy consumption in wireless sensor networks applications  
? Venue: Proceedings 10th Euromicro Conference on Digital System Design Architectures Methods and Tools Dsd 2007  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 43  
? Doi: 10.1109/Dsd.2007.4341509  
? Scopus ID: 2-s2.0-47749151454  
? Pages: 455-462  
? Authors: Barberis Agustin; Barboni Leonardo; Valle Maurizio  
? Keywords: Energy | Simulation | Wireless sensor networks  
? Source Id: 12000154340  
? Author Ids: 24474109000;24474437700;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Barberis A.

212.

? Title: Tactile sensing arrays for humanoid robots  
? Venue: Proceedings of the 2007 Ph D Research in Microelectronics and Electronics Conference Prime 2007  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 21  
? Doi: 10.1109/Rme.2007.4401847  
? Scopus ID: 2-s2.0-47349117482  
? Pages: 201-204  
? Authors: Dahiya Ravinder S.; Valle Maurizio; Metta Giorgio; Lorenzelli Leandro; Collini Cristian  
? Source Id: 11900154385  
? Author Ids: 24331529200;57197744325;6602884280;6701719943;23003664300  
? Authoraffiliationids: 60102151-60025153;60025153;60102151-60025153;60011451;60011451  
? Corresponding: Dahiya R.S.

213.

? Title: Behavioral models of basic mixed-mode circuits: Practical issues and application  
? Venue: European Conference on Circuit Theory and Design 2007 Ecctd 2007  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper

- ? Citations: 9  
? Doi: 10.1109/Ecctd.2007.4529731  
? Scopus ID: 2-s2.0-49749124579  
? Pages: 854-857  
? Authors: Prodanov William; Valle Maurizio; Buzas Roman; Pierscinski Hubert  
? Source Id: 21100932851  
? Author Ids: 14632476600;57197744325;24586819000;24587906900  
? Authoraffiliationids: 60025153;60025153;106221214;106221214  
? Corresponding: Prodanov W.
214.  
? Title: Assessment of the MAC layer behavior of wireless sensor networks simulators using experimental testbeds  
? Venue: Proceedings of the 2nd IEEE International Workshop on Advances in Sensors and Interfaces Iwasi  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Iwasi.2007.4420021  
? Scopus ID: 2-s2.0-48249123450  
? Authors: Barberis Agustin; Barboni Leonardo; Valle Maurizio  
? Source Id: 12000154503  
? Author Ids: 24474109000;24474437700;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Barberis A.
215.  
? Title: A fully-automatic CAD toolbox for a MOS drain current model and its parameters extraction  
? Venue: Prime 2006 2nd Conference on Ph D Research in Microelectronics and Electronics Proceedings  
? Year: 2006  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Scopus ID: 2-s2.0-34547404679  
? Pages: 209-212  
? Authors: Prodanov William; Valle Maurizio  
? Source Id: 7000153244  
? Author Ids: 14632476600;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Prodanov W.
216.  
? Title: Assessment of probability density estimation methods: Parzen window and Finite Gaussian Mixtures  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2006  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 38  
? Scopus ID: 2-s2.0-34547246353  
? Issn: 02714310  
? Pages: 3245-3248  
? Authors: Archambeau C.; Assenza A.; Valle M.; Verleysen M.  
? Quartile:

2025:

- ? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
- ? Source Id: 56190
- ? Author Ids: 6602619332;17433662100;57197744325;7003876274
- ? Authoraffiliationids: 60000874;60025153;60025153;60000874
- ? Corresponding: Archambeau C.

217.

- ? Title: Modelling charge injection in MOS analogue switches using a compact model in a deep submicron technology
- ? Venue: IEE Proceedings Circuits Devices and Systems
- ? Year: 2006
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 8
- ? DOI: 10.1049/ip-cds:20045088
- ? Scopus ID: 2-s2.0-33745304982
- ? Issn: 13502409
- ? Volume: 153
- ? Issue: 3
- ? Pages: 269-273
- ? Authors: Dei A.; Valle M.
- ? Source Id: 17412
- ? Author Ids: 7003894135;57197744325
- ? Authoraffiliationids: 60025153;60025153
- ? Corresponding: Dei A.

218.

- ? Title: Integrated low noise low power interface for neural bio-potentials recording and conditioning
- ? Venue: Proceedings of SPIE the International Society for Optical Engineering
- ? Year: 2005
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 4
- ? Doi: 10.1117/12.607938
- ? Scopus ID: 2-s2.0-28344432870
- ? Issn: 0277786x
- ? Volume: 5839
- ? Pages: 193-203
- ? Authors: Bottino Emanuele; Martinoia Sergio; Valle Maurizio
- ? Keywords: Analog multiplexer | Band-pass filtering | Bio-abio interface | Biopotential noise floor | Chip post-processing | Low-noise low-power preamplifier | Neural spikes recording | Noise analysis | Sample and hold | Standard CMOS technology
- ? Quartile:

2025:

- ? Instrumentation (Q4, rank 157, percentile 16)
- ? Electrical and Electronic Engineering (Q4, rank 873, percentile 12)
- ? Computer Science Applications (Q4, rank 893, percentile 9)
- ? Applied Mathematics (Q4, rank 625, percentile 6)
- ? Electronic, Optical and Magnetic Materials (Q4, rank 294, percentile 5)
- ? Condensed Matter Physics (Q4, rank 425, percentile 4)
- ? Source Id: 40067
- ? Author Ids: 9639667500;7003906450;57197744325
- ? Authoraffiliationids: 60025153;60025153;60025153
- ? Corresponding: Bottino E.

219.

? Title: A novel current-mode very low power analog CMOS four quadrant multiplier  
? Venue: Proceedings of Esscirc 2005 31st European Solid State Circuits Conference  
? Year: 2005  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 70  
? Doi: 10.1109/Esscir.2005.1541668  
? Scopus ID: 2-s2.0-33749164914  
? Pages: 495-498  
? Authors: Gravati Mirko; Valle Maurizio; Ferri Giuseppe; Guerrini Nicola; Reyes Linder  
? Source Id: 4900153303  
? Author Ids: 14630199800;57197744325;7102343602;35608187300;7005723425  
? Authoraffiliationids: 60025153;60025153;60018783;60018783;60071612  
? Corresponding: Gravati M.

220.

? Title: A behavioral model for the non-linear on-resistance in sample-and-hold analog switches  
? Venue: Proceedings of the 2005 European Conference on Circuit Theory and Design  
? Year: 2005  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 6  
? Doi: 10.1109/Ecctd.2005.1522922  
? Scopus ID: 2-s2.0-33749080146  
? Volume: 1  
? Pages: 111-114  
? Authors: Prodanov William; Valle Maurizio  
? Source Id: 21100496429  
? Author Ids: 14632476600;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Prodanov W.

221.

? Title: Integrated low noise preamplifier for biologic-electronics interfaces  
? Venue: Proceedings of the 2005 European Conference on Circuit Theory and Design  
? Year: 2005  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Ecctd.2005.1522920  
? Scopus ID: 2-s2.0-33749076069  
? Volume: 1  
? Pages: 103-106  
? Authors: Bottino Emanuele; Valle Maurizio  
? Source Id: 21100496429  
? Author Ids: 9639667500;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Bottino E.

222.

? Title: Modelling mismatch effects in CMOS translinear loops and current mode multipliers  
? Venue: Proceedings of the 2005 European Conference on Circuit Theory and Design  
? Year: 2005  
? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Ecctd.2005.1523138  
? Scopus ID: 2-s2.0-33749023901  
? Volume: 3  
? Pages: 373-376  
? Authors: Gravati Mirko; Valle Maurizio  
? Source Id: 4900153111  
? Author Ids: 14630199800;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Gravati M.

223.

? Title: A dedicated very low power analog VLSI architecture for smart adaptive systems  
? Venue: Applied Soft Computing Journal  
? Year: 2004  
? Type: Journal  
? Subtype: Article  
? Citations: 6  
? DOI: 10.1016/j.asoc.2004.03.002  
? Scopus ID: 2-s2.0-2442423379  
? Issn: 15684946  
? Volume: 4  
? Issue: 3  
? Pages: 206-226  
? Authors: Valle Maurizio; Diotalevi Francesco  
? Keywords: Analog VLSI neural networks | CMOS technology | Differential and balanced current mode signal coding | On-chip learning implementation | Perturbation based gradient descent algorithms | Smart adaptive systems | Translinear circuits | Weak inversion  
? Quartile:  
2025:  
? Software (Q1, rank 42, percentile 91)  
? Source Id: 18136  
? Author Ids: 57197744325;59850189000  
? Authoraffiliationids: 60025153;60025153-101766815  
? Corresponding: Valle M.

224.

? Title: Bioelectrochemical signal monitoring of in-vitro cultured cells by means of an automated microsystem based on solid state sensor-array  
? Venue: Biosensors and Bioelectronics  
? Year: 2003  
? Type: Journal  
? Subtype: Article  
? Citations: 59  
? Doi: 10.1016/S0956-5663(03)00040-X  
? Scopus ID: 2-s2.0-0037403241  
? Issn: 09565663  
? Volume: 18  
? Issue: 5-6  
? Pages: 621-626  
? Authors: Lorenzelli Leandro; Margesin Benno; Martinoia Sergio; Tedesco M. T.; Valle Maurizio  
? Keywords: Bioelectronics | Cell-metabolism monitoring | Integrated signal conditioning and multiplexing electronics | Microsensors array

? Quartile:

2025:

- ? Biophysics (Q1, rank 4, percentile 97)
- ? Biotechnology (Q1, rank 13, percentile 96)
- ? Biomedical Engineering (Q1, rank 15, percentile 95)
- ? Electrochemistry (Q1, rank 7, percentile 90)

? Source Id: 15437

? Author Ids: 6701719943;8306758100;7003906450;7005573484;57197744325

? Authoraffiliationids: 60011451;60011451;60025153;60025153;60025153

? Corresponding: Lorenzelli L.

225.

? Title: Modeling charge injection non-linear effects in sigma-delta modulators using SIMULINK

? Venue: Proceedings of the 8th International Workshop on ADC Modelling and Testing Iwadc 2003

? Year: 2003

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Scopus ID: 2-s2.0-85084021843

? Authors: Dei Alberto; Valle Maurizio

? Keywords: Charge injection modeling | Sigma-Delta converters | Switched-capacitor integrators

? Source Id: 21100932446

? Author Ids: 7003894135;57197744325

? Authoraffiliationids: 60025153;60025153

? Corresponding: Dei A.

226.

? Title: Analog VLSI implementation of artificial neural networks with supervised on-chip learning

? Venue: Analog Integrated Circuits and Signal Processing

? Year: 2002

? Type: Journal

? Subtype: Article

? Citations: 46

? Doi: 10.1023/A:1020717929709

? Scopus ID: 2-s2.0-0036891804

? Issn: 09251030

? Volume: 33

? Issue: 3

? Pages: 263-287

? Authors: Valle Maurizio

? Keywords: Analog VLSI neural networks | On chip learning | Supervised learning

? Quartile:

2025:

- ? Signal Processing (Q2, rank 82, percentile 58)

- ? Hardware and Architecture (Q2, rank 116, percentile 50)

- ? Surfaces, Coatings and Films (Q3, rank 80, percentile 42)

? Source Id: 25569

? Author Ids: 57197744325

? Authoraffiliationids: 60025153

? Corresponding: Valle M.

227.

? Title: Evaluation of time resolution of NMOS sampling switches

? Venue: 4th Imeko Tc4 Conference on Advanced A D and D A Conversion Techniques and their Applications and the 7th Workshop on ADC Modelling and Testing 2002

? Year: 2002

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Scopus ID: 2-s2.0-84909979624

? Authors: Dei Alberto; Valle Maurizio

? Keywords: A/D converters | Aperture time | CMOS integrated circuits | High-speed integrated circuits | Sample and hold circuits

? Source Id: 21100345613

? Author Ids: 7003894135;57197744325

? Authoraffiliationids: 60025153;60025153

? Corresponding: Dei A.

228.

? Title: Stochastic supervised learning algorithms with local and adaptive learning rate for recognising hand-written characters

? Venue: Lecture Notes in Computer Science Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics

? Year: 2002

? Type: Book Series

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1007/3-540-46084-5\_101

? Scopus ID: 2-s2.0-84902188958

? Issn: 03029743

? eISSN: 16113349

? Volume: 2415 Lncs

? Pages: 619-624

? Authors: Giudici Matteo; Queirolo Filippo; Valle Maurizio

? Quartile:

2025:

? Theoretical Computer Science (Q3, rank 70, percentile 48)

? Computer Science (all) (Q3, rank 129, percentile 46)

? Source Id: 25674

? Author Ids: 56200011300;6602656654;57197744325

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Giudici M.

229.

? Title: A self-learning analog neural processor

? Venue: IEICE Transactions on Fundamentals of Electronics Communications and Computer Sciences

? Year: 2002

? Type: Journal

? Subtype: Article

? Citations: 3

? Scopus ID: 2-s2.0-0036740528

? Issn: 09168508

? Volume: E85-A

? Issue: 9

? Pages: 2149-2158

? Authors: Bo G. M.; Caviglia D. D.; Valle M.

? Keywords: Analog VLSI | Gradient descent learning | Multi-layer perceptron | Neural networks | On-chip learning

? Quartile:

2025:

- ? Computer Graphics and Computer-Aided Design (Q3, rank 95, percentile 27)
- ? Applied Mathematics (Q3, rank 501, percentile 25)
- ? Electrical and Electronic Engineering (Q4, rank 751, percentile 24)
- ? Signal Processing (Q4, rank 149, percentile 23)

? Source Id: 26076

? Author Ids: 7004779144;7004012654;57197744325

? Authoraffiliationids: 100935046;60025153;60025153

? Corresponding: Bo G.

230.

? Title: Analog CMOS implementation of feature detection operators for automatic real-time optical character recognition systems

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

? Year: 2001

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Scopus ID: 2-s2.0-77956867031

? Volume: 2

? Pages: 1089-1093

? Authors: Caviglia D. D.; Tosato M.; Mazzucco M.; Bo G. M.; Valle M.

? Quartile:

2025:

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

? Source Id: 91096

? Author Ids: 7004012654;36538193400;16227794700;7004779144;57197744325

? Authoraffiliationids: 60025153;60025153;100935046;100935046;60025153

? Corresponding: Caviglia D.

231.

? Title: A mixed mode perceptron cell for VLSI Neural Networks

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

? Year: 2001

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Scopus ID: 2-s2.0-77956840803

? Volume: 1

? Pages: 377-380

? Authors: Camboni Fausto; Valle Maurizio

? Quartile:

2025:

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

? Source Id: 91096

? Author Ids: 36489150500;57197744325

? Authoraffiliationids: 60025153;60025153

? Corresponding: Camboni F.

232.

? Title: Evaluation of time resolution of NMOS sampling switches

? Venue: Alta Frequenza Rivista Di Elettronica

? Year: 2001

? Type: Journal

? Subtype: Article  
? Citations: 0  
? Scopus ID: 2-s2.0-0035520311  
? Issn: 11201908  
? Volume: 13  
? Issue: 6  
? Pages: 83-86  
? Authors: Dei Alberto; Valle Maurizio  
? Source Id: 24118  
? Author Ids: 7003894135;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Dei A.

233.

? Title: Stochastic learning algorithms for the classification of remote-sensing images  
? Venue: Alta Frequenza Rivista Di Elettronica  
? Year: 2001  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? Scopus ID: 2-s2.0-0035456718  
? Issn: 11201908  
? Volume: 13  
? Issue: 5  
? Pages: 60-64  
? Authors: Diotalevi F.; Valle M.  
? Source Id: 24118  
? Author Ids: 59850189000;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Diotalevi F.

234.

? Title: Analog CMOS current mode primitives for feed-forward neural networks  
? Venue: Alta Frequenza Rivista Di Elettronica  
? Year: 2001  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? Scopus ID: 2-s2.0-0035049337  
? Issn: 11201908  
? Volume: 13  
? Issue: 1  
? Pages: 56-60  
? Authors: Diotalevi Francesco; Valle Maurizio  
? Source Id: 24118  
? Author Ids: 59850189000;57197744325  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Diotalevi F.

235.

? Title: A current-mode two-quadrant multiplier for analogue array-based neural systems  
? Venue: International Journal of Electronics  
? Year: 2000  
? Type: Journal  
? Subtype: Article  
? Citations: 3  
? Doi: 10.1080/002072100132066

? Scopus ID: 2-s2.0-0034175308  
? Issn: 00207217  
? Volume: 87  
? Issue: 4  
? Pages: 407-411  
? Authors: Bo Gian M.; Caviglia D. D.; Valle M.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q2, rank 433, percentile 56)  
? Source Id: 26145  
? Author Ids: 7004779144;7004012654;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Bo G.

236.  
? Title: Analog CMOS current mode neural primitives  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2000  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.1109/lscas.2000.856429  
? Scopus ID: 2-s2.0-0033720425  
? Issn: 02714310  
? Volume: 2  
? Pages: I-717-I-720  
? Authors: Diotalevi F.; Valle M.; Bo G. M.; Biglieri E.; Caviglia D. D.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
? Source Id: 56190  
? Author Ids: 59850189000;57197744325;7004779144;7102451118;7004012654  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Diotalevi F.

237.  
? Title: Evaluation of gradient descent learning algorithms with an adaptive local rate technique for hierarchical feed forward architectures  
? Venue: Proceedings of the International Joint Conference on Neural Networks  
? Year: 2000  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? DOI: 10.1109/ijcnn.2000.857895  
? Scopus ID: 2-s2.0-0033717761  
? Volume: 2  
? Pages: 185-190  
? Authors: Diotalevi F.; Valle M.; Caviglia D. D.  
? Source Id: 96537  
? Author Ids: 59850189000;57197744325;7004012654  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Diotalevi F.

238.  
? Title: On-chip learning neural network  
? Venue: Proceedings of the International Joint Conference on Neural Networks  
? Year: 2000

? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? DOI: 10.1109/ijcnn.2000.860751  
? Scopus ID: 2-s2.0-0033717750  
? Volume: 4  
? Pages: 66-71  
? Authors: Bo G. M.; Caviglia D. D.; Valle M.  
? Source Id: 96537  
? Author Ids: 7004779144;7004012654;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Bo G.M.

239.

? Title: VLSI architecture for Weight Perturbation on chip learning implementation  
? Venue: Proceedings of the International Joint Conference on Neural Networks  
? Year: 2000  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Scopus ID: 2-s2.0-0033717370  
? Volume: 4  
? Pages: 219-224  
? Authors: Diotalevi F.; Valle M.; Bo G. M.; Caviglia D. D.  
? Source Id: 96537  
? Author Ids: 59850189000;57197744325;7004779144;7004012654  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Diotalevi F.

240.

? Title: Analog on-chip learning circuit architecture of the weight perturbation algorithm  
? Venue: Proceedings IEEE International Symposium on Circuits and Systems  
? Year: 2000  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 6  
? Doi: 10.1109/lscas.2000.857120  
? Scopus ID: 2-s2.0-0033699545  
? Issn: 02714310  
? Volume: 1  
? Pages: I-419-I-422  
? Authors: Diotalevi F.; Valle M.; Bo G. M.; Biglieri E.; Caviglia D. D.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)  
? Source Id: 56190  
? Author Ids: 59850189000;57197744325;7004779144;7102451118;7004012654  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Diotalevi F.

241.

? Title: A Circuit Architecture for Analog On-Chip Back Propagation Learning with Local Learning Rate Adaptation  
? Venue: Analog Integrated Circuits and Signal Processing  
? Year: 1999  
? Type: Journal

? Subtype: Article  
? Citations: 0  
? DOI: 10.1023/a:1008307321196  
? Scopus ID: 2-s2.0-85088547180  
? Issn: 09251030  
? Volume: 18  
? Issue: 2-3  
? Pages: 163-173  
? Authors: Bo Gian Marco; Caviglia D. D.; Chibl<sup>†</sup> H.; Valle M.  
? Keywords: Analog circuits | Local learning rate adaptation | Neural networks | On-chip learning  
? Quartile:  
2025:  
? Signal Processing (Q2, rank 82, percentile 58)  
? Hardware and Architecture (Q2, rank 116, percentile 50)  
? Surfaces, Coatings and Films (Q3, rank 80, percentile 42)  
? Source Id: 25569  
? Author Ids: 7004779144;7004012654;7801443090;57197744325  
? Authoraffiliationids: 60025153-100505222;60025153;60025153;60025153  
? Corresponding: Bo G.M.

242.

? Title: Gradient descent learning algorithm for hierarchical neural networks: A case study in industrial quality  
? Venue: Lecture Notes in Computer Science Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics  
? Year: 1999  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.1007/BFb0100525  
? Scopus ID: 2-s2.0-84958093847  
? Issn: 03029743  
? eISSN: 16113349  
? Volume: 1607  
? Pages: 578-587  
? Authors: Baratta Daniela; Diotalevi Francesco; Valle Maurizio; Caviglia Daniele D.  
? Quartile:  
2025:  
? Theoretical Computer Science (Q3, rank 70, percentile 48)  
? Computer Science (all) (Q3, rank 129, percentile 46)  
? Source Id: 25674  
? Author Ids: 57190699953;59850189000;57197744325;7004012654  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Baratta D.

243.

? Title: An experimental analog CMOS self-learning chip  
? Venue: Proceedings of the 7th International Conference on Microelectronics for Neural Fuzzy and Bio Inspired Systems Microneuro 1999  
? Year: 1999  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Mn.1999.758856  
? Scopus ID: 2-s2.0-28344436975

- ? Pages: 135-139  
? Authors: Bo G. M.; Caviglia D. D.; Chible H.; Valle M.  
? Source Id: 21100841700  
? Author Ids: 7004779144;7004012654;7801443090;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Bo G.
- 244.
- ? Title: Circuit architecture for analog on-chip back propagation learning with local learning rate adaptation  
? Venue: Analog Integrated Circuits and Signal Processing  
? Year: 1999  
? Type: Journal  
? Subtype: Article  
? Citations: 7  
? Doi: 10.1023/A:1008310017048  
? Scopus ID: 2-s2.0-0032630104  
? Issn: 09251030  
? Volume: 19  
? Issue: 2  
? Pages: 163-173  
? Authors: Bo G. M.; Caviglia D. D.; Chible H.; Valle M.  
? Quartile:  
2025:  
? Signal Processing (Q2, rank 82, percentile 58)  
? Hardware and Architecture (Q2, rank 116, percentile 50)  
? Surfaces, Coatings and Films (Q3, rank 80, percentile 42)  
? Source Id: 25569  
? Author Ids: 7004779144;7004012654;7801443090;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Bo G.M.
- 245.
- ? Title: Analog VLSI real time optical character recognition system based on a neural architecture  
? Venue: Alta Frequenza Rivista Di Elettronica  
? Year: 1999  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? Scopus ID: 2-s2.0-0032595106  
? Issn: 11201908  
? Volume: 11  
? Issue: 1  
? Pages: 53-57  
? Authors: Bo Gian Marco; Caviglia Daniele D.; Valle Maurizio  
? Source Id: 24118  
? Author Ids: 7004779144;7004012654;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Bo G.
- 246.
- ? Title: Analysis of the behavior of a dynamic latch comparator  
? Venue: IEEE Transactions on Circuits and Systems I Fundamental Theory and Applications  
? Year: 1998  
? Type: Journal

? Subtype: Article  
? Citations: 22  
? Doi: 10.1109/81.662703  
? Scopus ID: 2-s2.0-0032025004  
? Issn: 10577122  
? Volume: 45  
? Issue: 3  
? Pages: 294-298  
? Authors: Cusinato P.; Brucolieri M.; Caviglia D. D.; Valle M.  
? Source Id: 26028  
? Author Ids: 22955477900;6603102021;7004012654;57197744325  
? Authoraffiliationids: 60023682;60023682;60023682;60023682  
? Corresponding: Cusinato P.

247.

? Title: Reconfigurable analog VLSI neural network architecture with non-linear synapses  
? Venue: International Journal of Circuit Theory and Applications  
? Year: 1998  
? Type: Journal  
? Subtype: Article  
? Citations: 1  
? Doi: 10.1002/(Sici)1097-007x(199805/06)26:3<307::Aid-Cta14>3.0.Co;2-5  
? Scopus ID: 2-s2.0-0032070027  
? Issn: 00989886  
? Volume: 26  
? Issue: 3  
? Pages: 307-315  
? Authors: Bo G. M.; Caviglia D. D.; Valle M.; Stratta R.; Trucco E.  
? Quartile:  
2025:  
? Applied Mathematics (Q2, rank 183, percentile 72)  
? Electrical and Electronic Engineering (Q2, rank 422, percentile 57)  
? Computer Science Applications (Q2, rank 471, percentile 52)  
? Electronic, Optical and Magnetic Materials (Q3, rank 170, percentile 45)  
? Source Id: 17963  
? Author Ids: 7004779144;7004012654;57197744325;7102310635;57527443100  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bo G.M.

248.

? Title: An analog VLSI implementation of a feature extractor for real time optical character recognition  
? Venue: IEEE Journal of Solid State Circuits  
? Year: 1998  
? Type: Journal  
? Subtype: Article  
? Citations: 8  
? Doi: 10.1109/4.663560  
? Scopus ID: 2-s2.0-0343277351  
? Issn: 00189200  
? Volume: 33  
? Issue: 4  
? Pages: 556-563  
? Authors: Bo Gian Marco; Caviglia Daniele D.; Valle Maurizio  
? Keywords: Analog VLSI implementations | Feature extraction | Neural networks |

Optical character recognition

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 82, percentile 91)

? Source Id: 17278

? Author Ids: 7004779144;7004012654;57197744325

? Authoraffiliationids: 60025153-100842240;60000251-60025153;60025153

? Corresponding: Bo G.

249.

? Title: Design of an analog CMOS self-learning MLP chip

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 1998

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Scopus ID: 2-s2.0-0031632182

? Issn: 02714310

? Volume: 3

? Pages: 46-49

? Authors: Bo G. M.; Caviglia D. D.; Chible H.; Valle M.

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

? Source Id: 56190

? Author Ids: 7004779144;7004012654;7801443090;57197744325

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Bo G.

250.

? Title: A threshold voltage gradient compensation circuit for weak inversion operators for analog OCR chips

? Venue: Alta Frequenza Rivista Di Elettronica

? Year: 1997

? Type: Journal

? Subtype: Article

? Citations: 2

? Scopus ID: 2-s2.0-0031147393

? Issn: 11201908

? Volume: 9

? Issue: 3

? Pages: 66-68

? Authors: Bo G. M.; Caviglia D. D.; Valle M.

? Source Id: 24118

? Author Ids: 7004779144;7004012654;57197744325

? Authoraffiliationids: 60025153-101817667;60025153;60025153-101043148-101769091

? Corresponding: Bo G.

251.

? Title: A hardware implementation of hierarchical neural networks for real-time quality control systems in industrial applications

? Venue: Lecture Notes in Computer Science Including Subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics

? Year: 1997

? Type: Book Series

? Subtype: Conference Paper

? Citations: 1

? DOI: 10.1007/bfb0020319  
? Scopus ID: 2-s2.0-84956678831  
? Issn: 03029743  
? eISSN: 16113349  
? Volume: 1327  
? Pages: 1229-1234  
? Authors: Baratta Daniela; Bo Gian Marco; Caviglia Daniele D.; Valle Maurizio; Canepa Giovanni; Parenti Riccardo; Pernio Carla  
? Quartile:  
2025:  
? Theoretical Computer Science (Q3, rank 70, percentile 48)  
? Computer Science (all) (Q3, rank 129, percentile 46)  
? Source Id: 25674  
? Author Ids:  
57190699953;7004779144;7004012654;57197744325;57090151600;15747631400;57090990600  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60073836;60073836  
? Corresponding: Baratta D.

252.  
? Title: A VLSI image processing architecture dedicated to real-time quality control analysis in an industrial plant  
? Venue: Real Time Imaging  
? Year: 1996  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? DOI: 10.1006/rtim.1996.0037  
? Scopus ID: 2-s2.0-0030392986  
? Issn: 10072014  
? Volume: 2  
? Issue: 6  
? Pages: 361-371  
? Authors: Valle Maurizio; Raffo Luigi; Caviglia Daniele D.; Bisio Giacomo M.  
? Source Id: 25648  
? Author Ids: 57197744325;7003651730;7004012654;36730309500  
? Authoraffiliationids: 60025153;60032259;60025153;60025153  
? Corresponding: Valle M.

253.  
? Title: An experimental analog VLSI neural network with on-chip back-propagation learning  
? Venue: Analog Integrated Circuits and Signal Processing  
? Year: 1996  
? Type: Journal  
? Subtype: Article  
? Citations: 33  
? Doi: 10.1007/Bf00194907  
? Scopus ID: 2-s2.0-0030122857  
? Issn: 09251030  
? Volume: 9  
? Issue: 3  
? Pages: 231-245  
? Authors: Valle Maurizio; Caviglia Daniele D.; Bisio Giacomo M.  
? Quartile:  
2025:  
? Signal Processing (Q2, rank 82, percentile 58)

- ? Hardware and Architecture (Q2, rank 116, percentile 50)
  - ? Surfaces, Coatings and Films (Q3, rank 80, percentile 42)
  - ? Source Id: 25569
  - ? Author Ids: 57197744325;7004012654;36730309500
  - ? Authoraffiliationids: 60025153;60025153;60025153
  - ? Corresponding: Valle M.
- 254.
- ? Title: Application of hierarchical neural networks to pattern recognition for quality control analysis in steel-industry plants
  - ? Venue: Proceedings of International Workshop on Neural Networks for Identification Control Robotics and Signal Image Processing Nicrosp
  - ? Year: 1996
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 2
  - ? Scopus ID: 2-s2.0-0029747729
  - ? Pages: 246-252
  - ? Authors: Valle Maurizio; Baratta Daniela; Caviglia Daniele D.
  - ? Source Id: 51489
  - ? Author Ids: 57197744325;57190699953;7004012654
  - ? Authoraffiliationids: 60025153;60025153;60025153
  - ? Corresponding: Valle M.
- 255.
- ? Title: An ASIC design for real-time image processing in industrial applications
  - ? Venue: Proceedings of the 1995 European Conference on Design and Test Edtc 1995
  - ? Year: 1995
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 4
  - ? DOI: 10.1109/edtc.1995.470367
  - ? Scopus ID: 2-s2.0-2442515315
  - ? Pages: 385-390
  - ? Authors: Valle M.; Nateri G.; Caviglia D. D.; Bisio G. M.; Briozzo L.
  - ? Source Id: 21100832756
  - ? Author Ids: 57197744325;6507926305;7004012654;36730309500;57188981635
  - ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60023682
  - ? Corresponding: Valle M.
- 256.
- ? Title: VHDL-based design methodology: The design experience of an high performance ASIC chip
  - ? Venue: European Design Automation Conference Proceedings
  - ? Year: 1994
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 3
  - ? Scopus ID: 2-s2.0-0028727204
  - ? Pages: 664-669
  - ? Authors: Valle M.; Cornero M.; Nateri G.; Caviglia D. D.; Briozzo L.
  - ? Source Id: 21100514040
  - ? Author Ids: 57197744325;6507323959;6507926305;7004012654;57188981635
  - ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
  - ? Corresponding: Valle M.
- 257.
- ? Title: Analog VLSI neural network for real-time image processing in industrial

applications

? Venue: Proceedings of the Annual IEEE International ASIC Conference and Exhibit

? Year: 1994

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Scopus ID: 2-s2.0-0028706632

? Issn: 10630988

? Pages: 37-40

? Authors: Valle M.; Onorato M.; Oddone F.; Caviglia D. D.; Bisio G. M.

? Source Id: 26006

? Author Ids: 57197744325;35909820400;6507657213;7004012654;36730309500

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

? Corresponding: Valle M.

258.

? Title: Feature extraction circuit for optical character recognition

? Venue: Electronics Letters

? Year: 1994

? Type: Journal

? Subtype: Article

? Citations: 5

? DOI: 10.1049/el:19940526

? Scopus ID: 2-s2.0-0028427576

? Issn: 00135194

? Volume: 30

? Issue: 10

? Pages: 769-771

? Authors: Caviglia D. D.; Valle M.; Rossi A.; Vincentelli M.; Bo G.; Colangelo P.; Pedrazzi P.; Colla A. M.

? Keywords: Character recognition | Image processing | Neural networks

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 624, percentile 37)

? Source Id: 24918

? Author Ids: 7004012654;57197744325;58372732800;6507172616;7004779144;7003500562;6602524105;8371953800

? Authoraffiliationids:

60025153;60025153;60025153;60025153;60025153;60025153;60024961;60024961

? Corresponding: Caviglia D.D.

259.

? Title: An analog VLSI neural network character recognition system: The feature extraction module

? Venue: Proceedings of the 4th International Conference on Microelectronics for Neural Networks and Fuzzy Systems Icmnn 1994

? Year: 1994

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Doi: 10.1109/Icmnn.1994.593712

? Scopus ID: 2-s2.0-9744277211

? Pages: 212-217

? Authors: Caviglia Daniele D.; Rossi Annamaria; Vincentelli Mario; Valle Maurizio

? Source Id: 21100901938

? Author Ids: 7004012654;58372732800;6507172616;57197744325

- ? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Caviglia D.D.  
260.  
? Title: Non-linear circuit effects on analog VLSI neural network implementations  
? Venue: Proceedings of the 4th International Conference on Microelectronics for Neural Networks and Fuzzy Systems Icmnn 1994  
? Year: 1994  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Icmnn.1994.593739  
? Scopus ID: 2-s2.0-85063337009  
? Pages: 430-438  
? Authors: Onorato M.; Valle M.; Caviglia D. D.; Bisio G. M.  
? Source Id: 21100901938  
? Author Ids: 35909820400;57197744325;7004012654;36730309500  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Onorato M.  
261.  
? Title: Design of a CMOS ASIC chip featuring analog neural computational primitives  
? Venue: Euro ASIC 92  
? Year: 1992  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Scopus ID: 2-s2.0-0026998066  
? Pages: 113-118  
? Authors: Valle M.; Caviglia D. D.; Bisio G. M.  
? Source Id: 93285  
? Author Ids: 57197744325;7004012654;36730309500  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Valle M.  
262.  
? Title: An experimental analog VLSI neural chip with on-chip back-propagation learning  
? Venue: European Solid State Circuits Conference  
? Year: 1992  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Esscirc.1992.5468241  
? Scopus ID: 2-s2.0-85024152297  
? Issn: 19308833  
? Volume: 1992-September  
? Pages: 203-204  
? Authors: Valle Maurizio; Caviglia Daniele D.; Bisio Giacomo M.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 586, percentile 41)  
? Hardware and Architecture (Q3, rank 162, percentile 30)  
? Source Id: 63659  
? Author Ids: 57197744325;7004012654;36730309500  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Valle M.  
263.

? Title: Effects of weight discretization on the back propagation learning method:  
Algorithm design and hardware realization  
? Venue: Ijcnn International Joint Conference on Neural Networks  
? Year: 1990  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 14  
? Scopus ID: 2-s2.0-0025548891  
? Pages: 631-637  
? Authors: Caviglia Daniele D.; Valle Maurizio; Bisio Giacomo M.  
? Source Id: 21100510043  
? Author Ids: 7004012654;57197744325;36730309500  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Caviglia D.D.

264.

? Title: Cmos Circuit Design of Programmable Neural Net Classifier of ?Exclusive?  
Classes  
? Venue: Electronics Letters  
? Year: 1989  
? Type: Journal  
? Subtype: Article  
? Citations: 2  
? DOI: 10.1049/el:19890719  
? Scopus ID: 2-s2.0-0024960643  
? Issn: 00135194  
? Volume: 25  
? Issue: 16  
? Pages: 1074-1076  
? Authors: Caviglia D. D.; Bisio G. M.; Daglio P.; Valle M.  
? Keywords: Artificial intelligence | Networks | Neural networks | Pattern recognition  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 624, percentile 37)  
? Source Id: 24918  
? Author Ids: 7004012654;36730309500;6701711381;57197744325  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Caviglia D.D.