

# RANDAZZO ANDREA

## Overview

- ? Unit: ICT
- ? Role: Professore ordinario
- ? Grade: Prof.Ordinario Legge 240/10 - t.pieno - classe 2
- ? SSD: IINF-02/A (Campi elettromagnetici)
- ? Scopus ID: 7006280562
- ? Unige Id: 700788
- ? Retrieved at: 2025-11-14T15:16:58.968914

## Contact

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- ? Phone: 010 33 56588
- ? Website: <http://www.aem.dibe.unige.it/>
- ? Page: <https://rubrica.unige.it/personale/UkNHXFJh>
- ? Locations: Opera Pia - padiglione D (ED161450401), 3° piano, US161450401.III.005

## Career

- ? Ru, 2012-05-01 ? 2014-12-28
- ? Pa, 2014-12-29 ? 2019-11-30
- ? Po, 2019-12-01 ? 2222-02-02

## Teaching

2025

- ? Campi Elettromagnetici (80127), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione
  - ? Electromagnetic Monitoring Techniques (94664), Lm-26 - Engineering For Natural Risk Management
  - ? Electromagnetic Sensing And Imaging (114765), Lm-29 - Electronic Engineering
  - ? Antennas (90316), Lm-27 - Internet And Multimedia Engineering
  - ? Antennas (90316), Lm-27 - Internet And Multimedia Engineering
  - ? Electromagnetic Technologies And Compatibility (114759), Lm-29 - Electronic Engineering

2024

- ? Electromagnetic Sensing And Imaging (106823), Lm-29 - Ingegneria Elettronica
- ? Advanced Antenna Engineering (80853), Lm-29 - Ingegneria Elettronica
- ? Campi Elettromagnetici (80127), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione
  - ? Antennas (90316), Lm-27 - Internet And Multimedia Engineering
  - ? Antennas (90316), Lm-27 - Internet And Multimedia Engineering
  - ? Electromagnetic Techniques For Monitoring Structures And Protecting Systems (94664), Lm-26 - Engineering For Natural Risk Management
  - ? Electromagnetic Technologies And Compatibility (114759), Lm-29 - Electronic Engineering

2023

- ? Advanced Electromagnetics Engineering (106769), Lm-29 - Ingegneria Elettronica
- ? Advanced Antenna Engineering (80853), Lm-29 - Ingegneria Elettronica
- ? Electromagnetic Sensing And Imaging (106823), Lm-29 - Ingegneria Elettronica
- ? Campi Elettromagnetici (80127), L-8 - Ingegneria Elettronica E Tecnologie Dell'Informazione
  - ? Antennas (90316), Lm-27 - Internet And Multimedia Engineering
  - ? Electromagnetic Techniques For Monitoring Structures And Protecting Systems (94664), Lm-26 - Engineering For Natural Risk Management

2022

- ? Advanced Antenna Engineering (80853), Lm-29 - Ingegneria Elettronica
- ? Electromagnetic Sensing And Imaging (106823), Lm-29 - Ingegneria Elettronica
- ? Advanced Electromagnetics Engineering (106769), Lm-29 - Ingegneria Elettronica
- ? Antennas (90316), Lm-27 - Internet And Multimedia Engineering
- ? Electromagnetic Techniques For Monitoring Structures And Protecting Systems (94664), Lm-26 - Engineering For Natural Risk Management

2021

- ? Electromagnetic Sensing And Imaging (106823), Lm-29 - Ingegneria Elettronica
- ? Advanced Electromagnetics Engineering (106769), Lm-29 - Ingegneria Elettronica
- ? Antennas (90316), Lm-27 - Internet And Multimedia Engineering
- ? Electromagnetic Techniques For Monitoring Structures And Protecting Systems (94664), Lm-26 - Engineering For Natural Risk Management

2020

- ? I.E.S. And Elect. Waves Mod.A (66149), Lm-29 - Ingegneria Elettronica
- ? Antennas (90316), Lm-27 - Internet And Multimedia Engineering
- ? Electromagnetic Techniques For Monitoring Structures And Protecting Systems (94664), Lm-26 - Engineering For Natural Risk Management

#### Scopus Metrics

- ? absolute; Docs: 269; Journals: 104; Conferences: 157; Citations: 3002; H-index: 30
- ? 15 years (2010-2025); Docs: 214; Journals: 84; Conferences: 124; Citations: 1782; H-index: 24
- ? 10 years (2015-2025); Docs: 170; Journals: 64; Conferences: 101; Citations: 1264; H-index: 21
- ? 05 years (2020-2025); Docs: 101; Journals: 43; Conferences: 54; Citations: 622; H-index: 13

#### Scopus Products

1.
  - ? Title: Stroke Detection and Monitoring by Means of a Multifrequency Microwave Inversion Approach
  - ? Venue: Electronics Switzerland
  - ? Year: 2025
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 1
  - ? DOI: 10.3390/electronics14030543
  - ? Scopus ID: 2-s2.0-85217642112
  - ? eISSN: 20799292
  - ? Volume: 14
  - ? Issue: 3
  - ? Authors: Fedeli Alessandro; Schenone Valentina; Estatico Claudio; Randazzo Andrea
  - ? Keywords: inverse scattering | microwave imaging | multifrequency methods | stroke diagnostics
  - ? 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)  
? Source Id: 21100829272  
? Author Ids: 55512997500;57216360162;9739222400;7006280562  
? Authoraffiliationids: 60025153-130272028;60025153;60025153;60025153-130272028  
? Corresponding: Fedeli A.

- 2.
- ? Title: A Method to Include the Effects of Tortuosity in the Electromagnetic Field Expressions produced by Vertical Lightning Channels  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 1  
? Doi: 10.1109/Tap.2025.3605025  
? Scopus ID: 2-s2.0-105015729629  
? Issn: 0018926x  
? eISSN: 15582221  
? Authors: Mestriner Daniele; Aramini Riccardo; Brignone Massimo; Nicora Martino; Procopio Renato; Randazzo Andrea  
? Keywords: Electromagnetic fields | Lightning | Numerical models | Regularization  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)  
? Source Id: 17337  
? Author Ids: 57115575100;15759187700;8580886100;57210463204;7801615894;7006280562  
? Corresponding: Mestriner D.

- 3.
- ? Title: Antenna Arrays Diagnosis Through Inverse-Based Approaches  
? Venue: 2025 Ursi International Symposium on Electromagnetic Theory Emnts 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.46620/Ursiemts25/Lpzi8405  
? Scopus ID: 2-s2.0-105013751148  
? Authors: Costanzo Sandra; Di Massa Giuseppe; Fedeli Alessandro; Randazzo Andrea  
? Source Id: 21101321955  
? Author Ids: 14029886000;57201738411;55512997500;7006280562  
? Authoraffiliationids: 60020261;60020261;60025153;60025153  
? Corresponding: Costanzo S.

- 4.
- ? Title: Mild Data-Driven Inversion for Microwave Nondestructive Diagnostics of Plants and Trees  
? Venue: Eucap 2025 19th European Conference on Antennas and Propagation  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.23919/EuCAP63536.2025.10999253  
? Scopus ID: 2-s2.0-105007513543  
? Authors: Fedeli Alessandro; Estatico Claudio; Randazzo Andrea  
? Keywords: inverse problems | Microwave imaging | mild data-driven methods | plant diagnostics  
? Source Id: 21101300336

? Author Ids: 55512997500;9739222400;7006280562  
? Authoraffiliationids: 60025153-130090973;60025153;60025153  
? Corresponding: Fedeli A.

5.

? Title: Inverse-Based Approaches for Fault Detection in Antenna Arrays  
? Venue: Eucap 2025 19th European Conference on Antennas and Propagation  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.23919/EuCAP63536.2025.10999861  
? Scopus ID: 2-s2.0-105007497735  
? Authors: Costanzo Sandra; Di Massa Giuseppe; Fedeli Alessandro; Randazzo Andrea  
? Keywords: Antenna arrays | fault detection | inverse problems  
? Source Id: 21101300336  
? Author Ids: 14029886000;57201738411;55512997500;7006280562  
? Authoraffiliationids: 60020261;60020261;60025153;60025153  
? Corresponding: Costanzo S.

6.

? Title: An Antenna Array Diagnosis Approach Based on CNN Inversion and CFAR Detection  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 1  
? Doi: 10.1109/TAP.2025.3573617  
? Scopus ID: 2-s2.0-105007418441  
? Issn: 0018926x  
? eISSN: 15582221  
? Volume: 73  
? Issue: 9  
? Pages: 6252-6262  
? Authors: Schenone Valentina; Fedeli Alessandro; Randazzo Andrea  
? Keywords: Antenna arrays | antenna diagnostics | constant false alarm rate (CFAR) | convolutional neural network (CNN) | inverse source  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)  
? Source Id: 17337  
? Author Ids: 57216360162;55512997500;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Schenone V.

7.

? Title: Reconstruction of the Lightning Return-Stroke Current from the Radiated Magnetic Field  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? Doi: 10.1109/TAP.2025.3536797  
? Scopus ID: 2-s2.0-105002681872  
? Issn: 0018926x  
? eISSN: 15582221

? Volume: 73  
? Issue: 4  
? Pages: 2521-2532  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Procopio Renato; Randazzo Andrea; Rubinstein Marcos  
? Keywords: Electromagnetic propagation | inverse problems | lightning current  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)  
? Source Id: 17337  
? Author Ids: 15759187700;8580886100;57115575100;7801615894;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;128065441  
? Corresponding: Aramini R.

8.  
? Title: Quantitative Inversion of Multiantenna Ground-Penetrating Radar Data with Modeling Error Correction Based on Long Short-Term Memory Cells  
? Venue: Remote Sensing  
? Year: 2024  
? Type: Journal  
? Subtype: Article  
? Citations: 2  
? DOI: 10.3390/rs16122050  
? Scopus ID: 2-s2.0-85197237391  
? eISSN: 20724292  
? Volume: 16  
? Issue: 12  
? Authors: Fedeli Alessandro; Schenone Valentina; Randazzo Andrea  
? Keywords: ground penetrating radar | inverse scattering | long short-term memory | quantitative imaging  
? Quartile:  
2025:  
? Earth and Planetary Sciences (all) (Q1, rank 12, percentile 94)  
2024:  
? Earth and Planetary Sciences (all) (Q1, rank 13, percentile 93)  
? Source Id: 86430  
? Author Ids: 55512997500;57216360162;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.

9.  
? Title: Application of a mild data-driven technique to Lippmann-Schwinger inverse scattering in variable-exponent Lebesgue spaces for microwave imaging  
? Venue: Inverse Problems  
? Year: 2024  
? Type: Journal  
? Subtype: Article  
? Citations: 9  
? DOI: 10.1088/1361-6420/ad3ea9  
? Scopus ID: 2-s2.0-85192190447  
? Issn: 02665611  
? eISSN: 13616420  
? Volume: 40  
? Issue: 6  
? Authors: Estatico Claudio; Schenone Valentina; Fedeli Alessandro; Randazzo Andrea  
? Keywords: Banach-spaces | data-driven regularization | inverse scattering | microwave

imaging | variable-exponent Lebesgue spaces

? Quartile:

2025:

- ? Mathematical Physics (Q1, rank 21, percentile 77)
- ? Applied Mathematics (Q2, rank 200, percentile 70)
- ? Theoretical Computer Science (Q2, rank 58, percentile 57)
- ? Signal Processing (Q2, rank 83, percentile 57)
- ? Computer Science Applications (Q3, rank 495, percentile 49)

2024:

- ? Mathematical Physics (Q1, rank 22, percentile 75)
- ? Applied Mathematics (Q2, rank 203, percentile 69)
- ? Signal Processing (Q2, rank 77, percentile 58)
- ? Theoretical Computer Science (Q2, rank 60, percentile 56)
- ? Computer Science Applications (Q3, rank 478, percentile 49)

? Source Id: 28497

? Author Ids: 9739222400;57216360162;55512997500;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Estatico C.

10.

? Title: Improved Chebyshev Spectral Method Modeling for Vector Radiative Transfer in Atmospheric Propagation

? Venue: IEEE Transactions on Antennas and Propagation

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 2

? Doi: 10.1109/Tap.2024.3378831

? Scopus ID: 2-s2.0-85189176394

? Issn: 0018926x

? eISSN: 15582221

? Volume: 72

? Issue: 5

? Pages: 4465-4476

? Authors: Tavanti Emanuele; Caviglia Daniele D.; Randazzo Andrea

? Keywords: Atmospheric propagation | electromagnetic scattering | multiple scattering  
| random media | vector radiative transfer (VRT)

? Quartile:

2025:

- ? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)

2024:

- ? Electrical and Electronic Engineering (Q1, rank 81, percentile 91)

? Source Id: 17337

? Author Ids: 57038817000;7004012654;7006280562

? Authoraffiliationids: 60025153-60028868;60025153;60025153

? Corresponding: Tavanti E.

11.

? Title: On the Edge Recurrent Neural Network Approach for Ground Moving FMCW Radar Target Classification

? Venue: IEEE Transactions on Consumer Electronics

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 6

? Doi: 10.1109/Tce.2023.3343460

? Scopus ID: 2-s2.0-85180329478  
? Issn: 00983063  
? eISSN: 15584127  
? Volume: 70  
? Issue: 1  
? Pages: 522-534  
? Authors: Gianoglio Christian; Rizik Ali; Tavanti Emanuele; Caviglia Daniele D.; Randazzo Andrea  
? Keywords: and target classification | Deep neural networks | radar | recurrent neural networks  
? Quartile:  
2025:  
? Media Technology (Q1, rank 9, percentile 88)  
? Electrical and Electronic Engineering (Q1, rank 157, percentile 84)  
2024:  
? Media Technology (Q1, rank 16, percentile 77)  
? Electrical and Electronic Engineering (Q2, rank 256, percentile 73)  
? Source Id: 26048  
? Author Ids: 56580140000;57214804817;57038817000;7004012654;7006280562  
? Authoraffiliationids: 60025153;60012162;60028868;60025153;60025153  
? Corresponding: Gianoglio C.

12.

? Title: Noncontact Measurement of Sea Wave Dynamics and Velocity Estimation with a Low-Cost FMCW Radar Sensor  
? Venue: 2024 7th International Conference on Signal Processing and Information Security Icspis 2024  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Icspis63676.2024.10812610  
? Scopus ID: 2-s2.0-85216637589  
? Authors: Chawraba Assil; Randazzo Andrea; Cavigila Daniele D.  
? Keywords: 2D FFT range-Doppler map | FMCW radar | normalized power spectrum | sea wave characterization | time-domain IQ signal | water flow velocity  
? Source Id: 21101272180  
? Author Ids: 58864725300;7006280562;59314853700  
? Authoraffiliationids: 60025153-60068774;60025153;60025153  
? Corresponding: Chawraba A.

13.

? Title: Microwave Characterization of Brain Stroke Through a Mild Data-Driven Inversion Strategy  
? Venue: 2024 IEEE 10th World Forum on Internet of Things Wf IoT 2024  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.1109/WF-IoT62078.2024.10811330  
? Scopus ID: 2-s2.0-85216563497  
? Pages: 725-729  
? Authors: Fedeli Alessandro; Schenone Valentina; Estatico Claudio; Randazzo Andrea  
? Keywords: brain stroke imaging | inverse scattering | Microwave characterization | mild-data driven approach  
? Source Id: 21101272024

- ? Author Ids: 55512997500;57216360162;9739222400;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.
14.  
? Title: A Novel Lebesgue-Space Inversion Approach for Microwave Stroke Imaging  
? Venue: 2024 IEEE International Conference on Metrology for Extended Reality  
Artificial Intelligence and Neural Engineering Metroxraine 2024 Proceedings  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.1109/MetroXRAINE62247.2024.10796016  
? Scopus ID: 2-s2.0-85216088017  
? Pages: 107-112  
? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Sciarrone Andrea;  
Bisio Igor; Lavagetto Fabio; Randazzo Andrea  
? Keywords: inverse scattering | Microwave imaging | mild-data driven approach | stroke  
imaging  
? Source Id: 21101271412  
? Author Ids:  
57216360162;55512997500;9739222400;36180166900;8546192900;7004136693;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.
15.  
? Title: Hydrological Sensing via FMCW Radar Technology of Sea Waves  
? Venue: 2024 16th International Symposium on Electronics and Telecommunications Isetc  
2024 Conference Proceedings  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Isetc63109.2024.10797262  
? Scopus ID: 2-s2.0-85216025106  
? Authors: Chawraba Assil; Randazzo Andrea; Ghaith Alaa; Cavigila Daniele D.  
? Keywords: 2D FFT range-Doppler map | FMCW radar | sea wave characterization | water  
flow velocity  
? Source Id: 21101270674  
? Author Ids: 58864725300;7006280562;57212345855;59314853700  
? Authoraffiliationids: 60025153-60068774;60025153;60068774;60025153  
? Corresponding: Chawraba A.
16.  
? Title: Characterizing Coastal Wave Energy Dynamics Using Enhanced FMCW Radar Signal  
Processing Techniques  
? Venue: 2024 16th International Symposium on Electronics and Telecommunications Isetc  
2024 Conference Proceedings  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Isetc63109.2024.10797404  
? Scopus ID: 2-s2.0-85216017673  
? Authors: Chawraba Assil; Randazzo Andrea; Cavigila Daniele D.  
? Keywords: Fast Fourier Transform (FFT) | FMCW Radar | Non-contact measurement |  
Normalized power spectrum | Signal processing

? Source Id: 21101270674  
? Author Ids: 58864725300;7006280562;59314853700  
? Authoraffiliationids: 60025153-60068774;60025153;60025153  
? Corresponding: Chawraba A.

17.

? Title: Frequency-domain Expressions of the Time-Windowed Electric Fields Radiated by a Lightning Flash  
? Venue: Iclp 2024 37th International Conference on Lightning Protection  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Scopus ID: 2-s2.0-85215686103  
? Pages: 708-713  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Procopio Renato; Randazzo Andrea; Rubinstein Marcos  
? Source Id: 21101270624  
? Author Ids: 15759187700;8580886100;57115575100;7801615894;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;127343000  
? Corresponding: Aramini R.

18.

? Title: Sensitivity Analysis on the Reconstruction of the Attenuation Function for Short Time-Windows Measurements  
? Venue: Iclp 2024 37th International Conference on Lightning Protection  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Scopus ID: 2-s2.0-85215675068  
? Pages: 688-693  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Procopio Renato; Randazzo Andrea; Rubinstein Marcos  
? Source Id: 21101270624  
? Author Ids: 15759187700;8580886100;57115575100;7801615894;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;127343000  
? Corresponding: Aramini R.

19.

? Title: Numerical Assessment of a Microwave Imaging Technique for Pediatric Stroke Diagnostics  
? Venue: Proceedings of the International Conference on Electromagnetics in Advanced Applications Iceaa  
? Year: 2024  
? Type: Journal  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Iceaa61917.2024.10701636  
? Scopus ID: 2-s2.0-85208714502  
? Issn: 28351355  
? eISSN: 27662284  
? Issue: 2024  
? Pages: 596  
? Authors: Schenone Valentina; Fedeli Alessandro; Parodi Costanza; Bisio Igor; Sciarrone Andrea; Rossi Andrea; Lavagetto Fabio; Randazzo Andrea  
? Quartile:

2025:

- ? Instrumentation (Q4, rank 164, percentile 13)
- ? Radiation (Q4, rank 66, percentile 10)
- ? Computer Networks and Communications (Q4, rank 492, percentile 10)
- ? Electrical and Electronic Engineering (Q4, rank 908, percentile 9)

2024:

- ? Instrumentation (Q4, rank 166, percentile 4)
- ? Computer Networks and Communications (Q4, rank 487, percentile 4)
- ? Electrical and Electronic Engineering (Q4, rank 933, percentile 3)
- ? Radiation (Q4, rank 65, percentile 3)
- ? Source Id: 21101257984
- ? Author Ids: 57216360162;55512997500;57566447600;8546192900;36180166900;7403475016;7004136693;7006280562
- ? Authoraffiliationids: 60025153;60025153;60016041;60025153;60025153;60016041;60025153;60025153
- ? Corresponding: Schenone V.

20.

- ? Title: Microwave Imaging of Partially Known Targets Through a Mild Data-Driven Approach
- ? Venue: Proceedings of the International Conference on Electromagnetics in Advanced Applications Iceaa
- ? Year: 2024
- ? Type: Journal
- ? Subtype: Conference Paper
- ? Citations: 0
- ? Doi: 10.1109/Iceaaa61917.2024.10701876
- ? Scopus ID: 2-s2.0-85208700154
- ? Issn: 28351355
- ? eISSN: 27662284
- ? Issue: 2024
- ? Pages: 421
- ? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Randazzo A.
- ? Quartile:

2025:

- ? Instrumentation (Q4, rank 164, percentile 13)
- ? Radiation (Q4, rank 66, percentile 10)
- ? Computer Networks and Communications (Q4, rank 492, percentile 10)
- ? Electrical and Electronic Engineering (Q4, rank 908, percentile 9)

2024:

- ? Instrumentation (Q4, rank 166, percentile 4)
- ? Computer Networks and Communications (Q4, rank 487, percentile 4)
- ? Electrical and Electronic Engineering (Q4, rank 933, percentile 3)
- ? Radiation (Q4, rank 65, percentile 3)
- ? Source Id: 21101257984
- ? Author Ids: 57216360162;55512997500;9739222400;7006280562
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153
- ? Corresponding: Schenone V.

21.

- ? Title: Near-Shore Sea-Wave Monitoring Using FMCW Radar
- ? Venue: 25th International Microwave and Radar Conference MIKON 2024
- ? Year: 2024
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 0

? Doi: 10.23919/Mikon60251.2024.10633958  
? Scopus ID: 2-s2.0-85203201062  
? Pages: 349-352  
? Authors: Chawraba Assil; Randazzo Andrea; Chebli Hussein; Cavigila Daniele D.  
? Keywords: FMCW Radar | Range-Doppler processing | Sea waves  
? Source Id: 21101246445  
? Author Ids: 58864725300;7006280562;58221791700;59314853700  
? Authoraffiliationids: 60025153-60068774;60025153;60068774;60025153  
? Corresponding: Chawraba A.

22.

? Title: RNN-Based Multistatic Scattered-Field Processing for the Solution of Electromagnetic Imaging Problems in Multilayer Environments  
? Venue: 2024 4th Ursi Atlantic Radio Science Meeting at Rasc 2024  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.46620/Ursiatrasc24/Ptvl2537  
? Scopus ID: 2-s2.0-85199803088  
? Authors: Fedeli Alessandro; Schenone Valentina; Randazzo Andrea  
? Source Id: 21101239186  
? Author Ids: 55512997500;57216360162;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.

23.

? Title: A Microwave Imaging Reconstruction Technique with Mild-Data-Driven Regularization in Variable-Exponent Lebesgue Spaces  
? Venue: 2024 4th Ursi Atlantic Radio Science Meeting at Rasc 2024  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.46620/Ursiatrasc24/Vhip2784  
? Scopus ID: 2-s2.0-85199792142  
? Authors: Schenone Valentina; Estatico Claudio; Fedeli Alessandro; Randazzo Andrea  
? Source Id: 21101239186  
? Author Ids: 57216360162;9739222400;55512997500;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.

24.

? Title: Preliminary Design and Test of a Microwave Inline Moisture Sensor for the Carasau Bread Industry  
? Venue: IEEE Open Journal of Antennas and Propagation  
? Year: 2024  
? Type: Journal  
? Subtype: Article  
? Citations: 3  
? Doi: 10.1109/Ojap.2024.3431092  
? Scopus ID: 2-s2.0-85199096390  
? eISSN: 26376431  
? Volume: 5  
? Issue: 5  
? Pages: 1166-1180  
? Authors: Muntoni Giacomo; Lodi Matteo B.; Fedeli Alessandro; Melis Andrea; Maccio

Claudia; Pastorino Matteo; Randazzo Andrea; Mazzarella Giuseppe; Fanti Alessandro  
? Keywords: Carasau bread | Dielectric properties | food engineering | moisture sensor  
| patch antenna  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 199, percentile 80)  
2024:  
? Electrical and Electronic Engineering (Q1, rank 166, percentile 82)  
? Source Id: 21101059745  
? Author Ids: 56964448000;57211403950;55512997500;41262209800;57705618900;7004880389;70  
06280562;7006097620;36664325500  
? Authoraffiliationids:  
60032259;60032259;60025153;60032259;60032259;60025153;60025153;60032259;60032259  
? Corresponding: Muntoni G.

25.  
? Title: Nonlinear and Hybrid Inversion Techniques for Ground Penetrating Radar Imaging  
? Venue: Ground Penetrating Radar from Theoretical Endeavors to Computational  
Electromagnetics Signal Processing Antenna Design and Field Applications  
? Year: 2024  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 0  
? DOI: 10.1002/9781394284405.ch2  
? Scopus ID: 2-s2.0-85194527334  
? Pages: 35-58  
? Authors: Schenone Valentina; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Source Id: 21101225618  
? Author Ids: 57216360162;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.

26.  
? Title: Brain Stroke Microwave Diagnostics in Children Through a Nonlinear Inverse-  
Scattering Technique  
? Venue: 18th European Conference on Antennas and Propagation Eucap 2024  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.23919/EuCAP60739.2024.10501405  
? Scopus ID: 2-s2.0-85192499934  
? Authors: Schenone Valentina; Fedeli Alessandro; Parodi Costanza; Bisio Igor;  
Sciarrone Andrea; Rossi Andrea; Lavagetto Fabio; Randazzo Andrea  
? Keywords: inverse scattering | Lebesgue spaces | microwave imaging | Paediatric  
stroke  
? Source Id: 21101220747  
? Author Ids: 57216360162;55512997500;57566447600;8546192900;36180166900;7403475016;700  
4136693;7006280562  
? Authoraffiliationids:  
60025153;60025153;60016041;60025153;60025153;60016041;60025153;60025153  
? Corresponding: Schenone V.

27.  
? Title: A Mild Data-Driven Approach Based on a Lebesgue-Space Inversion Procedure for  
Microwave Imaging Applications  
? Venue: 18th European Conference on Antennas and Propagation Eucap 2024

? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.23919/EuCAP60739.2024.10501560  
? Scopus ID: 2-s2.0-85192488776  
? Authors: Estatico Claudio; Schenone Valentina; Fedeli Alessandro; Randazzo Andrea  
? Keywords: data-driven inversion | inverse problems | Microwave imaging | variable-exponent Lebesgue spaces  
? Source Id: 21101220747  
? Author Ids: 9739222400;57216360162;55512997500;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

28.

? Title: Real-Time Sea Monitoring Using FMCW Radar  
? Venue: Lecture Notes in Electrical Engineering  
? Year: 2024  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1007/978-3-031-48121-5\_67  
? Scopus ID: 2-s2.0-85184116963  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 1110 Lnee  
? Pages: 468-473  
? Authors: Chawraba Assil; Rizik Ali; Randazzo Andrea; Caviglia Daniele  
? Keywords: 2D FFT | Doppler features | Feature extraction | FMCW radar | Range-Doppler processing | Sea monitoring  
? 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: 58864725300;57214804817;7006280562;7004012654  
? Authoraffiliationids: 60025153-60068774;60012162;60025153;60025153  
? Corresponding: Chawraba A.

29.

? Title: A Combined Iterative Data-Driven Inversion Strategy for Microwave Imaging  
? Venue: IEEE Conference on Antenna Measurements and Applications Cama  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Cama62287.2024.10986182  
? Scopus ID: 2-s2.0-105005831050  
? Issn: 24741760  
? eISSN: 26436795  
? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Randazzo Andrea  
? Keywords: data-driven techniques | iterative methods | microwave imaging  
? Quartile:  
2025:  
? Radiation (Q3, rank 53, percentile 28)

- ? Instrumentation (Q3, rank 140, percentile 25)  
? Computer Networks and Communications (Q4, rank 432, percentile 21)  
2024:  
? Radiation (Q4, rank 53, percentile 21)  
? Instrumentation (Q4, rank 141, percentile 19)  
? Computer Networks and Communications (Q4, rank 430, percentile 15)  
? Source Id: 21101136249  
? Author Ids: 57216360162;55512997500;9739222400;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.  
30.  
? Title: Feasibility Analysis of Theranostic Magnetic Scaffolds for Microwave Monitoring of Hyperthermia Treatment of Bone Tumors  
? Venue: IEEE Journal of Electromagnetics RF and Microwaves in Medicine and Biology  
? Year: 2023  
? Type: Journal  
? Subtype: Article  
? Citations: 11  
? Doi: 10.1109/Jerm.2023.3288741  
? Scopus ID: 2-s2.0-85164408866  
? eISSN: 24697249  
? Volume: 7  
? Issue: 4  
? Pages: 344-353  
? Authors: Lodi Matteo Bruno; Curreli Nicola; Dachena Chiara; Fedeli Alessandro; Scapaticci Rosa; Randazzo Andrea; Pastorino Matteo; Fanti Alessandro  
? Keywords: Electromagnetic waves propagation | hyperthermia | magnetic biomaterials | microwave imaging | theranostic  
? Quartile:  
2025:  
? Radiation (Q1, rank 4, percentile 95)  
? Radiology, Nuclear Medicine and Imaging (Q1, rank 26, percentile 92)  
? Instrumentation (Q1, rank 22, percentile 88)  
2023:  
? Radiation (Q1, rank 8, percentile 87)  
? Radiology, Nuclear Medicine and Imaging (Q1, rank 63, percentile 81)  
? Instrumentation (Q1, rank 33, percentile 76)  
? Source Id: 21100902029  
? Author Ids: 57211403950;56487698400;57206901870;55512997500;55223916300;7006280562;7004880389;36664325500  
? Authoraffiliationids: 60032259-126431541;60102151;126431541-60025153;126431541-60025153;60001111;126431541-60025153;126431541-60025153;60032259-126431541  
? Corresponding: Lodi M.B.  
31.  
? Title: Computation of the attenuation function of the lightning return-stroke current from electromagnetic fields measured in a short-duration time-window ? Part II: Numerical implementation  
? Venue: Electric Power Systems Research  
? Year: 2023  
? Type: Journal  
? Subtype: Article  
? Citations: 2  
? DOI: 10.1016/j.epsr.2023.109410  
? Scopus ID: 2-s2.0-85153090880

- ? Issn: 03787796  
? Volume: 221  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Pastorino Matteo; Procopio Renato; Rachidi Farhad; Randazzo Andrea; Rubinstein Marcos  
? Keywords: Electromagnetic fields | Inverse problems | Lightning  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 126, percentile 87)  
? Energy Engineering and Power Technology (Q1, rank 60, percentile 81)  
2023:  
? Electrical and Electronic Engineering (Q1, rank 158, percentile 80)  
? Energy Engineering and Power Technology (Q1, rank 61, percentile 77)  
? Source Id: 16044  
? Author Ids: 15759187700;8580886100;57115575100;7004880389;7801615894;7003719604;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60028186;60025153;128065441  
? Corresponding: Aramini R.
32.  
? Title: Computation of the attenuation function of the lightning return-stroke current from electromagnetic fields measured in a short-duration time-window, Part I: Theoretical investigation  
? Venue: Electric Power Systems Research  
? Year: 2023  
? Type: Journal  
? Subtype: Article  
? Citations: 3  
? DOI: 10.1016/j.epsr.2023.109392  
? Scopus ID: 2-s2.0-85152236005  
? Issn: 03787796  
? Volume: 221  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Pastorino Matteo; Procopio Renato; Rachidi Farhad; Randazzo Andrea; Rubinstein Marcos  
? Keywords: Electromagnetic fields | Inverse problems | Lightning  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 126, percentile 87)  
? Energy Engineering and Power Technology (Q1, rank 60, percentile 81)  
2023:  
? Electrical and Electronic Engineering (Q1, rank 158, percentile 80)  
? Energy Engineering and Power Technology (Q1, rank 61, percentile 77)  
? Source Id: 16044  
? Author Ids: 15759187700;8580886100;57115575100;7004880389;7801615894;7003719604;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60028186;60025153;128065441  
? Corresponding: Aramini R.
33.  
? Title: In-situ microwave tomography for parts? cooldown monitoring in powder bed fusion of polymers  
? Venue: Additive Manufacturing  
? Year: 2023  
? Type: Journal  
? Subtype: Article

? Citations: 1  
? DOI: 10.1016/j.addma.2023.103433  
? Scopus ID: 2-s2.0-85148023824  
? eISSN: 22148604  
? Volume: 65  
? Authors: Sillani Francesco; Poretti Samuel; Pagani Tommaso; Hajdaj Fatlind; Schmid Manfred; Randazzo Andrea; Pastorino Matteo; Wegener Konrad  
? Keywords: Cooldown history | Crystallization | Microwave tomography | Selective laser sintering | Temperature monitoring  
? Quartile:  
2025:  
? Engineering (miscellaneous) (Q1, rank 7, percentile 97)  
? Biomedical Engineering (Q1, rank 11, percentile 96)  
? Industrial and Manufacturing Engineering (Q1, rank 15, percentile 96)  
? Materials Science (all) (Q1, rank 22, percentile 95)  
2023:  
? Engineering (miscellaneous) (Q1, rank 5, percentile 97)  
? Industrial and Manufacturing Engineering (Q1, rank 11, percentile 97)  
? Biomedical Engineering (Q1, rank 11, percentile 96)  
? Materials Science (all) (Q1, rank 19, percentile 96)  
? Source Id: 21100349533  
? Author Ids: 57203820430;25927504500;58102772000;58102135300;56242779100;7006280562;7004880389;16246992400  
? Authoraffiliationids: 60074317-60025858;129182337;129182337;129182337;60074317;60025153;60025153;60025858  
? Corresponding: Sillani F.

34.  
? Title: A Multifrequency Inverse-Scattering Technique for Brain Stroke Microwave Diagnostics  
? Venue: 2023 IEEE International Conference on Metrology for Extended Reality Artificial Intelligence and Neural Engineering Metroxraine 2023 Proceedings  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.1109/MetroXRAINE58569.2023.10405642  
? Scopus ID: 2-s2.0-85185819357  
? Pages: 502-506  
? Authors: Fedeli Alessandro; Maheswaran Maurica; Schenone Valentina; Sciarrone Andrea; Bisio Igor; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea; Estatico Claudio  
? Keywords: Brain stroke | inverse scattering | microwave imaging  
? Source Id: 21101202153  
? Author Ids: 55512997500;58902474300;57216360162;36180166900;8546192900;7004136693;7004880389;7006280562;9739222400  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.

35.  
? Title: Evaluation of the Return-Stroke Current Attenuation Function from the Vertical Electric Field by Means of the Regularization of an Inverse Problem  
? Venue: 17th International Symposium on Lightning Protection Sipda 2023  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper

? Citations: 0  
? Doi: 10.1109/Sipda59763.2023.10349194  
? Scopus ID: 2-s2.0-85182395942  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Pastorino Matteo; Procopio Renato; Randazzo Andrea; Rubinstein Marcos  
? Keywords: attenuation function | electromagnetic fields | inverse problems | Lightning | reconstruction  
? Source Id: 21101196397  
? Author Ids:  
15759187700;8580886100;57115575100;7004880389;7801615894;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;128065441  
? Corresponding: Aramini R.

36.

? Title: Welcome to 2023 IEEE CAMA  
? Venue: IEEE Conference on Antenna Measurements and Applications Cama  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Editorial  
? Citations: 0  
? Doi: 10.1109/Cama57522.2023.10352701  
? Scopus ID: 2-s2.0-85182319050  
? Issn: 24741760  
? eISSN: 26436795  
? Pages: 1  
? Authors: Pichot Christian; Pastorino Matteo; Randazzo Andrea  
? Quartile:  
2025:  
? Radiation (Q3, rank 53, percentile 28)  
? Instrumentation (Q3, rank 140, percentile 25)  
? Computer Networks and Communications (Q4, rank 432, percentile 21)  
? Source Id: 21101136249  
? Author Ids: 7101858631;7004880389;7006280562  
? Authoraffiliationids: 60008134;60025153;60025153  
? Corresponding: Pichot C.

37.

? Title: Microwave Imaging for the Diagnosis of Stroke in Pediatric Patients: An Initial Study  
? Venue: IEEE Conference on Antenna Measurements and Applications Cama  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Cama57522.2023.10352828  
? Scopus ID: 2-s2.0-85182283448  
? Issn: 24741760  
? eISSN: 26436795  
? Pages: 126-129  
? Authors: Schenone Valentina; Fedeli Alessandro; Parodi Costanza; Bisio Igor; Sciarrone Andrea; Rossi Andrea; Lavagetto Fabio; Randazzo Andrea  
? Keywords: inverse scattering | microwave imaging | pediatric stroke  
? Quartile:  
2025:  
? Radiation (Q3, rank 53, percentile 28)  
? Instrumentation (Q3, rank 140, percentile 25)

- ? Computer Networks and Communications (Q4, rank 432, percentile 21)  
? Source Id: 21101136249  
? Author Ids: 57216360162;55512997500;57566447600;8546192900;36180166900;7403475016;7004136693;7006280562  
? Authoraffiliationids: 60025153;60025153;60016041;60025153;60025153;60016041;60025153;60025153  
? Corresponding: Schenone V.
- 38.
- ? Title: Improved Time-Frequency Filtering to Decode Frequency-Coded Cross-Polarized Chipless RFID Tags  
? Venue: IEEE Conference on Antenna Measurements and Applications Cama  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Cama57522.2023.10352838  
? Scopus ID: 2-s2.0-85182280889  
? Issn: 24741760  
? eISSN: 26436795  
? Pages: 935-938  
? Authors: Tavanti Emanuele; Randazzo Andrea; Costa Filippo; Genovesi Simone; Manara Giuliano  
? Keywords: Chipless radio frequency identification (RFID) | high-impedance surface (HIS) | Time-frequency transforms  
? Quartile:  
2025:  
? Radiation (Q3, rank 53, percentile 28)  
? Instrumentation (Q3, rank 140, percentile 25)  
? Computer Networks and Communications (Q4, rank 432, percentile 21)  
? Source Id: 21101136249  
? Author Ids: 57038817000;7006280562;24482938300;35193749000;7006025870  
? Authoraffiliationids: 60028868;60025153;60028868;60028868;60028868  
? Corresponding: Tavanti E.
- 39.
- ? Title: An Equivalent Attenuation Function for the Computation of the Lightning Field Radiated by a Tortuous Channel  
? Venue: IEEE Conference on Antenna Measurements and Applications Cama  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Cama57522.2023.10352872  
? Scopus ID: 2-s2.0-85182276702  
? Issn: 24741760  
? eISSN: 26436795  
? Pages: 956-961  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Petrarca Carlo; Procopio Renato; Randazzo Andrea; Rubinstein Marcos  
? Keywords: lightning | regularization | tortuosity  
? Quartile:  
2025:  
? Radiation (Q3, rank 53, percentile 28)  
? Instrumentation (Q3, rank 140, percentile 25)  
? Computer Networks and Communications (Q4, rank 432, percentile 21)

- ? Source Id: 21101136249  
? Author Ids: 15759187700;8580886100;57115575100;7004208484;7801615894;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;114851910;60025153;60025153;130704963  
? Corresponding: Aramini R.
40.  
? Title: Chebyshev Spectral Solver for Vector Radiative Transfer in the Atmosphere  
? Venue: IEEE Conference on Antenna Measurements and Applications Cama  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Cama57522.2023.10352746  
? Scopus ID: 2-s2.0-85182266909  
? Issn: 24741760  
? eISSN: 26436795  
? Pages: 1031-1034  
? Authors: Tavanti Emanuele; Caviglia Daniele D.; Randazzo Andrea  
? Keywords: atmospheric propagation | electromagnetic scattering | Radiative transfer  
? Quartile:  
2025:  
? Radiation (Q3, rank 53, percentile 28)  
? Instrumentation (Q3, rank 140, percentile 25)  
? Computer Networks and Communications (Q4, rank 432, percentile 21)  
? Source Id: 21101136249  
? Author Ids: 57038817000;7004012654;7006280562  
? Authoraffiliationids: 60028868;60025153;60025153  
? Corresponding: Tavanti E.
41.  
? Title: Diagnosis of Defective Elements in Steerable Antenna Arrays by Means of a Non-Standard Regularization Approach  
? Venue: IEEE Conference on Antenna Measurements and Applications Cama  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Cama57522.2023.10352887  
? Scopus ID: 2-s2.0-85182259294  
? Issn: 24741760  
? eISSN: 26436795  
? Pages: 217-220  
? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Randazzo Andrea  
? Keywords: Antenna arrays | antenna diagnostics | inverse problems  
? Quartile:  
2025:  
? Radiation (Q3, rank 53, percentile 28)  
? Instrumentation (Q3, rank 140, percentile 25)  
? Computer Networks and Communications (Q4, rank 432, percentile 21)  
? Source Id: 21101136249  
? Author Ids: 57216360162;55512997500;9739222400;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.
- 42.

- ? Title: Reconstruction of the lightning channel-base current from remote measurements of electric and magnetic field by means of regularization techniques  
? Venue: 2023 International Conference on Electromagnetics in Advanced Applications Iceaa 2023  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Iceaa57318.2023.10297752  
? Scopus ID: 2-s2.0-85178193042  
? Pages: 187  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Pastorino Matteo; Procopio Renato; Randazzo Andrea; Rubinstein Marcos  
? Source Id: 21101188848  
? Author Ids:  
15759187700;8580886100;57115575100;7004880389;7801615894;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;128065441  
? Corresponding: Aramini R.
43.  
? Title: Identification of Defective Elements in Antenna Arrays Through an Inverse Approach  
? Venue: 17th European Conference on Antennas and Propagation Eucap 2023  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.23919/EuCAP57121.2023.10133355  
? Scopus ID: 2-s2.0-85162266635  
? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Pastorino Matteo; Randazzo Andrea  
? Keywords: Antenna arrays | inverse problems | Lebesgue spaces  
? Source Id: 21101158924  
? Author Ids: 57216360162;55512997500;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.
44.  
? Title: A Multifrequency Electromagnetic Imaging Approach for the Detection of Brain Injuries  
? Venue: 17th European Conference on Antennas and Propagation Eucap 2023  
? Year: 2023  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? DOI: 10.23919/EuCAP57121.2023.10133540  
? Scopus ID: 2-s2.0-85162242667  
? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Bisio Igor; Lavagetto Fabio; Sciarrone Andrea; Pastorino Matteo; Randazzo Andrea  
? Keywords: Brain stroke | electromagnetic imaging | inverse problems | multifrequency methods  
? Source Id: 21101158924  
? Author Ids: 57216360162;55512997500;9739222400;8546192900;7004136693;36180166900;7004880389;7006280562  
? Authoraffiliationids:  
60025153;60025153;60025153;60025153;60025153;60025153;60025153

- ? Corresponding: Schenone V.
- 45.
- ? Title: Microwave Medical Imaging of the Human Neck using a Neural-Networks-Based Inversion Procedure: A Phantom Study
- ? Venue: 17th European Conference on Antennas and Propagation Eucap 2023
- ? Year: 2023
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 1
- ? DOI: 10.23919/EuCp57121.2023.10133743
- ? Scopus ID: 2-s2.0-85162232603
- ? Authors: Dachena Chiara; Fedeli Alessandro; Fanti Alessandro; Lodi Matteo B.; Fumera Giorgio; Pastorino Matteo; Randazzo Andrea
- ? Keywords: inverse scattering | machine learning | Microwave imaging | neck diseases
- ? Source Id: 21101158924
- ? Author Ids: 57206901870;55512997500;36664325500;57211403950;6602513262;7004880389;7006280562
- ? Authoraffiliationids: 60025153;60025153;60032259;60032259;60032259;60025153;60025153
- ? Corresponding: Dachena C.
- 46.
- ? Title: Assessment of a non-Hilbertian Inverse Scattering Approach for Electromagnetic Tomography in Subsurface Environments
- ? Venue: 17th European Conference on Antennas and Propagation Eucap 2023
- ? Year: 2023
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 0
- ? DOI: 10.23919/EuCp57121.2023.10133256
- ? Scopus ID: 2-s2.0-85162190228
- ? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Pastorino Matteo; Randazzo Andrea
- ? Keywords: Finite-element method | inverse scattering problems | Lebesgue spaces | subsurface imaging
- ? Source Id: 21101158924
- ? Author Ids: 57216360162;55512997500;9739222400;7004880389;7006280562
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
- ? Corresponding: Schenone V.
- 47.
- ? Title: Microwave-Based Subsurface Characterization through a Combined Finite Element and Variable Exponent Spaces Technique
- ? Venue: Sensors
- ? Year: 2023
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 10
- ? DOI: 10.3390/s23010167
- ? Scopus ID: 2-s2.0-85145874372
- ? Issn: 14248220
- ? Volume: 23
- ? Issue: 1
- ? Authors: Schenone Valentina; Estatico Claudio; Gragnani Gian Luigi; Pastorino Matteo; Randazzo Andrea; Fedeli Alessandro
- ? Keywords: finite element | inverse scattering | Lebesgue spaces | subsurface imaging
- ? 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)

2023:

- ? Instrumentation (Q1, rank 24, percentile 83)
  - ? Electrical and Electronic Engineering (Q1, rank 163, percentile 79)
  - ? Atomic and Molecular Physics, and Optics (Q1, rank 48, percentile 78)
  - ? Analytical Chemistry (Q1, rank 36, percentile 77)
  - ? Information Systems (Q1, rank 91, percentile 77)
  - ? Biochemistry (Q2, rank 133, percentile 69)
- ? Source Id: 130124
- ? Author Ids: 57216360162;9739222400;6701681576;7004880389;7006280562;55512997500
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
- ? Corresponding: Schenone V.

48.

- ? Title: A Non-Hilbertian Inversion Technique for the Diagnosis of Faulty Elements in Antenna Arrays
- ? Venue: Lecture Notes in Networks and Systems
- ? Year: 2023
- ? Type: Book Series
- ? Subtype: Conference Paper
- ? Citations: 0
- ? Doi: 10.1007/978-3-031-16281-7\_17
- ? Scopus ID: 2-s2.0-85138009358
- ? Issn: 23673370
- ? eISSN: 23673389
- ? Volume: 546 Lnns
- ? Pages: 173-181
- ? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Pastorino Matteo; Randazzo Andrea
- ? Keywords: Diagnosis of antenna array | Inverse problems | Non-Hilbertian methods
- ? 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: 57216360162;55512997500;9739222400;7004880389;7006280562
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
- ? Corresponding: Schenone V.

49.

- ? Title: Initial Experimental Tests of an ANN-Based Microwave Imaging Technique for Neck Diagnostics
- ? Venue: IEEE Microwave and Wireless Components Letters
- ? Year: 2022
- ? Type: Journal

- ? Subtype: Article  
? Citations: 10  
? Doi: 10.1109/Lmwc.2022.3194805  
? Scopus ID: 2-s2.0-85136086121  
? Issn: 15311309  
? eISSN: 15581764  
? Volume: 32  
? Issue: 12  
? Pages: 1495-1498  
? Authors: Dachena Chiara; Fedeli Alessandro; Fanti Alessandro; Lodi Matteo B.; Fumera Giorgio; Pastorino Matteo; Randazzo Andrea  
? Keywords: Artificial neural networks (ANNs) | biomedical imaging | inverse scattering | machine learning (ML) | microwave imaging (MWI)  
? Quartile:  
2022:  
? Electrical and Electronic Engineering (Q2, rank 207, percentile 72)  
? Condensed Matter Physics (Q2, rank 119, percentile 71)  
? Source Id: 17295  
? Author Ids:  
57206901870;55512997500;36664325500;57211403950;6602513262;7004880389;7006280562  
? Authoraffiliationids:  
60025153;60025153;60032259-60114714;60032259;60032259;60025153;60025153  
? Corresponding: Dachena C.
50.  
? Title: On the reconstruction of the attenuation function of a return-stroke current from the Fourier Transform of finite-duration measurements  
? Venue: International Journal of Electrical Power and Energy Systems  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 9  
? DOI: 10.1016/j.ijepes.2022.108186  
? Scopus ID: 2-s2.0-85129236133  
? Issn: 01420615  
? Volume: 142  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Pastorino Matteo; Procopio Renato; Rachidi Farhad; Randazzo Andrea; Rubinstein Marcos  
? Keywords: Electromagnetic fields | Inverse problems | Lightning  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 57, percentile 94)  
? Energy Engineering and Power Technology (Q1, rank 25, percentile 92)  
2022:  
? Electrical and Electronic Engineering (Q1, rank 61, percentile 91)  
? Energy Engineering and Power Technology (Q1, rank 26, percentile 89)  
? Source Id: 17985  
? Author Ids: 15759187700;8580886100;57115575100;7004880389;7801615894;7003719604;7006280562;7201682529  
? Authoraffiliationids:  
60025153;60025153;60025153;60025153;60025153;60028186;60025153;128065441  
? Corresponding: Aramini R.
51.  
? Title: On the Fourier Transform of Measured Electric Fields Radiated by a Lightning Return Stroke

? Venue: IEEE Transactions on Electromagnetic Compatibility  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 11  
? Doi: 10.1109/Temc.2022.3154648  
? Scopus ID: 2-s2.0-85127513704  
? Issn: 00189375  
? eISSN: 1558187X  
? Volume: 64  
? Issue: 4  
? Pages: 1257-1264  
? Authors: Aramini Riccardo; Brignone Massimo; Mestriner Daniele; Pastorino Matteo; Procopio Renato; Randazzo Andrea; Rubinstein Marcos  
? Keywords: Distribution theory | fast Fourier transform (FT) (FFT) | lightning  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q2, rank 303, percentile 69)  
? Condensed Matter Physics (Q2, rank 151, percentile 66)  
? Atomic and Molecular Physics, and Optics (Q2, rank 83, percentile 65)  
2022:  
? Electrical and Electronic Engineering (Q2, rank 256, percentile 65)  
? Condensed Matter Physics (Q2, rank 150, percentile 64)  
? Atomic and Molecular Physics, and Optics (Q2, rank 76, percentile 64)  
? Source Id: 26051  
? Author Ids:  
15759187700;8580886100;57115575100;7004880389;7801615894;7006280562;7201682529  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;106110786  
? Corresponding: Aramini R.

52.  
? Title: 2-D Green's Function for an Elliptically Layered Cylindrical PEC Enclosure  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 2  
? Doi: 10.1109/Tap.2022.3146874  
? Scopus ID: 2-s2.0-85124185240  
? Issn: 0018926x  
? eISSN: 15582221  
? Volume: 70  
? Issue: 8  
? Pages: 7338-7343  
? Authors: Randazzo Andrea; Fedeli Alessandro; Pastorino Matteo  
? Keywords: Electromagnetic scattering | Green's function | integral equations | stratified media  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)  
2022:  
? Electrical and Electronic Engineering (Q1, rank 80, percentile 89)  
? Source Id: 17337  
? Author Ids: 7006280562;55512997500;7004880389  
? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Randazzo A.

53.

? Title: Microwaves as Diagnostic Tool for Pituitary Tumors: Preliminary Investigations

? Venue: Electronics Switzerland

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 1

? DOI: 10.3390/electronics11101608

? Scopus ID: 2-s2.0-85130196652

? eISSN: 20799292

? Volume: 11

? Issue: 10

? Authors: Casula Filippo; Lodi Matteo Bruno; Curreli Nicola; Fedeli Alessandro; Scapaticci Rosa; Muntoni Giacomo; Randazzo Andrea; Djuric Nikola; Vannucci Luca; Fanti Alessandro

? Keywords: diagnostics | inverse problem | microwaves | pituitary tumors | transmission line model

? 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: 57695617900;57211403950;56487698400;55512997500;55223916300;56964448000;7006280562;35174255600;7003973501;36664325500

? Authoraffiliationids: 60032259;60032259;60102151;60025153;60001111;60032259;60025153;60068801;60031135;60032259

? Corresponding: Casula F.

54.

? Title: An LSTM Based Strategy for Data and Model Calibration in Subsurface Electromagnetic Imaging

? Venue: IEEE Conference on Antenna Measurements and Applications Cama

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Doi: 10.1109/Cama56352.2022.10002550

? Scopus ID: 2-s2.0-85148283678

? Issn: 24741760

? eISSN: 26436795

? Volume: 2022-December

? Authors: Fedeli Alessandro; Schenone Valentina; Pastorino Matteo; Randazzo Andrea

? Keywords: calibration | long short-term memory | nonlinear inversion | subsurface imaging

? Quartile:

2025:

- ? Radiation (Q3, rank 53, percentile 28)
- ? Instrumentation (Q3, rank 140, percentile 25)
- ? Computer Networks and Communications (Q4, rank 432, percentile 21)
- ? Source Id: 211011136249
- ? Author Ids: 55512997500;57216360162;7004880389;7006280562
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153
- ? Corresponding: Fedeli A.

55.

- ? Title: Nonlinear Inversion for Microwave Characterization of Targets in Non-Homogeneous Media
- ? Venue: 2022 International Conference on Electromagnetics in Advanced Applications Iceaa 2022
- ? Year: 2022
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 0
- ? Doi: 10.1109/Iceaa49419.2022.9899997
- ? Scopus ID: 2-s2.0-85141010293
- ? Pages: 97
- ? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Pastorino Matteo; Randazzo Andrea
- ? Source Id: 21101117512
- ? Author Ids: 57216360162;55512997500;9739222400;7004880389;7006280562
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
- ? Corresponding: Schenone V.

56.

- ? Title: A Hybrid Qualitative-Quantitative Electromagnetic Imaging Method for Subsurface Prospecting
- ? Venue: Ist 2022 IEEE International Conference on Imaging Systems and Techniques Proceedings
- ? Year: 2022
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 0
- ? Doi: 10.1109/Ist55454.2022.9827669
- ? Scopus ID: 2-s2.0-85135927840
- ? Authors: Schenone Valentina; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Estatico Claudio
- ? Keywords: Electromagnetic imaging | Ground Penetrating Radar | inverse scattering | Lebesgue spaces
- ? Source Id: 21101101230
- ? Author Ids: 57216360162;55512997500;7004880389;7006280562;9739222400
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
- ? Corresponding: Schenone V.

57.

- ? Title: Detection of Failures in Antenna Arrays Through a Lebesgue-Space Approach
- ? Venue: IEEE Open Journal of Antennas and Propagation
- ? Year: 2022
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 16
- ? Doi: 10.1109/Ojap.2022.3181345
- ? Scopus ID: 2-s2.0-85131730938

- ? eISSN: 26376431  
? Volume: 3  
? Pages: 652-662  
? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Pastorino Matteo; Randazzo Andrea  
? Keywords: antenna arrays | Antenna diagnostics | inverse source | Lebesgue spaces  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 199, percentile 80)  
2022:  
? Electrical and Electronic Engineering (Q2, rank 299, percentile 59)  
? Source Id: 21101059745  
? Author Ids: 57216360162;55512997500;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.
58.  
? Title: Designing a Microwave Moisture Content Sensor for Carasau Bread: A Feasibility Study  
? Venue: 2022 16th European Conference on Antennas and Propagation Eucap 2022  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Scopus ID: 2-s2.0-85130623533  
? Authors: Muntoni Giacomo; Fedeli Alessandro; Lodi Matteo Bruno; Simone Marco; Randazzo Andrea; Mazzarella Giuseppe; Fanti Alessandro  
? Keywords: dielectric properties | food engineering | moisture | moisture sensor | patch antenna  
? Source Id: 21101089648  
? Author Ids:  
56964448000;55512997500;57211403950;55866781100;7006280562;7006097620;36664325500  
? Authoraffiliationids: 60032259;60025153;60032259;60032259;60025153;60032259;60032259  
? Corresponding: Muntoni G.
59.  
? Title: A Microwave Imaging Technique Based on Artificial Neural Networks for Neck Tumors Detection  
? Venue: 2022 16th European Conference on Antennas and Propagation Eucap 2022  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Scopus ID: 2-s2.0-85130602960  
? Authors: Dachena Chiara; Fedeli Alessandro; Fanti Alessandro; Lodi Matteo B.; Fumera Giorgio; Pastorino Matteo; Randazzo Andrea  
? Keywords: artificial neural networks | Microwave imaging | neck phantom | tumor detection  
? Source Id: 21101089648  
? Author Ids:  
57206901870;55512997500;36664325500;57211403950;6602513262;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60032259;60032259;60032259;60025153;60025153  
? Corresponding: Dachena C.
60.  
? Title: A Hybrid Lebesgue-Space Inverse-Scattering Technique for Microwave Imaging of Objects Hidden Behind a Wall

? Venue: 2022 16th European Conference on Antennas and Propagation Eucap 2022

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Scopus ID: 2-s2.0-85130591267

? Authors: Randazzo Andrea; Ponti Cristina; Fedeli Alessandro; Pastorino Matteo; Schettini Giuseppe

? Keywords: inverse scattering | Through-the-wall imaging | variable-exponent Banach spaces

? Source Id: 21101089648

? Author Ids: 7006280562;26536362600;55512997500;7004880389;7102615533

? Authoraffiliationids: 60025153;60012630;60025153;60025153;60012630

? Corresponding: Randazzo A.

61.

? Title: Multistatic Electromagnetic Imaging of Dielectric Targets with LSTM Cells

? Venue: 2022 16th European Conference on Antennas and Propagation Eucap 2022

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Scopus ID: 2-s2.0-85130587858

? Authors: Fedeli Alessandro; Schenone Valentina; Pastorino Matteo; Randazzo Andrea

? Keywords: electromagnetic imaging | inverse scattering | long short-term memory

? Source Id: 21101089648

? Author Ids: 55512997500;57216360162;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Fedeli A.

62.

? Title: A Robust SVM Color-Based Food Segmentation Algorithm for the Production Process of a Traditional Carasau Bread

? Venue: IEEE Access

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 13

? Doi: 10.1109/Access.2022.3147206

? Scopus ID: 2-s2.0-85124103230

? eISSN: 21693536

? Volume: 10

? Pages: 15359-15377

? Authors: Mannaro Katiuscia; Baire Matteo; Fanti Alessandro; Lodi Matteo Bruno; Didaci Luca; Fedeli Alessandro; Cocco Luisanna; Randazzo Andrea; Mazzarella Giuseppe; Fumera Giorgio

? Keywords: Computer vision | food tecnology | image color analysis | image processing | image segmentation | machine learning | support vector machines

? Quartile:

2025:

? Engineering (all) (Q1, rank 42, percentile 88)

? Computer Science (all) (Q1, rank 41, percentile 83)

? Materials Science (all) (Q1, rank 101, percentile 78)

2022:

? Engineering (all) (Q1, rank 22, percentile 92)

? Computer Science (all) (Q1, rank 25, percentile 89)

- ? Materials Science (all) (Q1, rank 78, percentile 82)  
? Source Id: 21100374601  
? Author Ids: 23398019900;57206893052;36664325500;57211403950;55887100400;55512997500;37861007600;7006280562;7006097620;6602513262  
? Authoraffiliationids: 60032259;60032259;60032259;60032259;60032259;60025153;60032259;60025153;60032259;60032259  
? Corresponding: Mannaro K.
- 63.
- ? Title: Experimental Assessment of a Novel Hybrid Scheme for Quantitative GPR Imaging  
? Venue: IEEE Geoscience and Remote Sensing Letters  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 12  
? Doi: 10.1109/Lgrs.2021.3121808  
? Scopus ID: 2-s2.0-85122858958  
? Issn: 1545598x  
? eISSN: 15580571  
? Volume: 19  
? Authors: Schenone Valentina; Fedeli Alessandro; Estatico Claudio; Pastorino Matteo; Randazzo Andrea  
? Keywords: Buried object detection | electromagnetic (EM) inverse scattering (IS) problems | ground-penetrating radar (GPR)  
? Quartile:  
2025:  
? Geotechnical Engineering and Engineering Geology (Q1, rank 22, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 90, percentile 91)  
2022:  
? Geotechnical Engineering and Engineering Geology (Q1, rank 43, percentile 79)  
? Electrical and Electronic Engineering (Q1, rank 160, percentile 78)  
? Source Id: 17259  
? Author Ids: 57216360162;55512997500;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.
- 64.
- ? Title: A Short-Range FMCW Radar-Based Approach for Multi-Target Human-Vehicle Detection  
? Venue: IEEE Transactions on Geoscience and Remote Sensing  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 50  
? Doi: 10.1109/Tgrs.2021.3138687  
? Scopus ID: 2-s2.0-85122079795  
? Issn: 01962892  
? eISSN: 15580644  
? Volume: 60  
? Authors: Tavanti Emanuele; Rizik Ali; Fedeli Alessandro; Caviglia Daniele D.; Randazzo Andrea  
? Keywords: electromagnetic scattering | Frequency-modulated continuous wave (FMCW) radar data processing | machine learning (ML) | radar imaging  
? Quartile:  
2025:  
? Earth and Planetary Sciences (all) (Q1, rank 6, percentile 97)

- ? Electrical and Electronic Engineering (Q1, rank 37, percentile 96)  
2022:  
? Earth and Planetary Sciences (all) (Q1, rank 8, percentile 96)  
? Electrical and Electronic Engineering (Q1, rank 59, percentile 92)  
? Source Id: 17360  
? Author Ids: 57038817000;57214804817;55512997500;7004012654;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Tavanti E.
65.  
? Title: 2-D TM GPR Imaging through a Multiscaling Multifrequency Approach in Lp Spaces  
? Venue: IEEE Transactions on Geoscience and Remote Sensing  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 22  
? Doi: 10.1109/Tgrs.2021.3049423  
? Scopus ID: 2-s2.0-85099724246  
? Issn: 01962892  
? eISSN: 15580644  
? Volume: 59  
? Issue: 12  
? Pages: 10011-10021  
? Authors: Salucci Marco; Estatico Claudio; Fedeli Alessandro; Oliveri Giacomo; Pastorino Matteo; Povoli Sergio; Randazzo Andrea; Rocca Paolo  
? Keywords: Banach spaces | buried object detection | electromagnetic scattering inverse problems | ground-penetrating radar (GPR)  
? Quartile:  
2025:  
? Earth and Planetary Sciences (all) (Q1, rank 6, percentile 97)  
? Electrical and Electronic Engineering (Q1, rank 37, percentile 96)
- 2021:  
? Earth and Planetary Sciences (all) (Q1, rank 4, percentile 98)  
? Electrical and Electronic Engineering (Q1, rank 42, percentile 94)  
? Source Id: 17360  
? Author Ids: 54387549100;9739222400;55512997500;6701615935;7004880389;57221664000;7006280562;22035972900  
? Authoraffiliationids: 60015986;60025153;60025153;60015986;60025153;60015986;60025153;60015986  
? Corresponding: Salucci M.
66.  
? Title: Assessment of an Lp-space multi-focusing inversion method for subsoil mapping with multi-frequency data  
? Venue: Microwave and Optical Technology Letters  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 1  
? DOI: 10.1002/mop.32921  
? Scopus ID: 2-s2.0-85107219408  
? Issn: 08952477  
? eISSN: 10982760  
? Volume: 63  
? Issue: 10  
? Pages: 2559-2564

? Authors: Randazzo Andrea; Estatico Claudio; Fedeli Alessandro; Rosatti Pietro;

Salucci Marco; Zardi Francesco; Pastorino Matteo

? Keywords: electromagnetic imaging | inverse problems | subsoil mapping

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 542, percentile 45)

? Electronic, Optical and Magnetic Materials (Q3, rank 199, percentile 35)

? Atomic and Molecular Physics, and Optics (Q3, rank 156, percentile 34)

? Condensed Matter Physics (Q3, rank 296, percentile 33)

2021:

? Electrical and Electronic Engineering (Q2, rank 345, percentile 51)

? Atomic and Molecular Physics, and Optics (Q3, rank 107, percentile 48)

? Condensed Matter Physics (Q3, rank 224, percentile 46)

? Electronic, Optical and Magnetic Materials (Q3, rank 149, percentile 42)

? Source Id: 12250

? Author Ids:

7006280562;9739222400;55512997500;57206725859;54387549100;57206727509;7004880389

? Authoraffiliationids: 60025153;60025153;60025153;60015986;60015986;60015986;60025153

? Corresponding: Randazzo A.

67.

? Title: Cost-Efficient FMCW Radar for Multi-Target Classification in Security Gate Monitoring

? Venue: IEEE Sensors Journal

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 25

? Doi: 10.1109/Jsen.2021.3095674

? Scopus ID: 2-s2.0-85115293964

? Issn: 1530437x

? eISSN: 15581748

? Volume: 21

? Issue: 18

? Pages: 20447-20461

? Authors: Rizik Ali; Tavanti Emanuele; Chible Hussien; Caviglia Daniele D.; Randazzo Andrea

? Keywords: edge computing | electromagnetic scattering | FMCW radar | range-Doppler processing | target classification

? 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: 57214804817;57038817000;7801443090;7004012654;7006280562

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

? Corresponding: Rizik A.

68.

? Title: A two-step inverse-scattering technique in variable-exponent lebesgue spaces for through-the-wall microwave imaging: Experimental results

? Venue: IEEE Transactions on Geoscience and Remote Sensing

? Year: 2021

? Type: Journal  
? Subtype: Article  
? Citations: 23  
? Doi: 10.1109/Tgrs.2021.3052608  
? Scopus ID: 2-s2.0-85101450906  
? Issn: 01962892  
? eISSN: 15580644  
? Volume: 59  
? Issue: 9  
? Pages: 7189-7200  
? Authors: Randazzo Andrea; Ponti Cristina; Fedeli Alessandro; Estatico Claudio; D'Atanasio Paolo; Pastorino Matteo; Schettini Giuseppe  
? Keywords: Electromagnetic scattering | Inverse problems | Microwave imaging | Through-the-wall imaging (TWI) | Variable-exponent Lebesgue spaces  
? Quartile:  
2025:  
? Earth and Planetary Sciences (all) (Q1, rank 6, percentile 97)  
? Electrical and Electronic Engineering (Q1, rank 37, percentile 96)  
2021:  
? Earth and Planetary Sciences (all) (Q1, rank 4, percentile 98)  
? Electrical and Electronic Engineering (Q1, rank 42, percentile 94)  
? Source Id: 17360  
? Author Ids:  
7006280562;26536362600;55512997500;9739222400;6506533668;7004880389;7102615533  
? Authoraffiliationids:  
60025153;60012630-60103966;60025153;60025153;60003686;60025153;60012630-60103966  
? Corresponding: Randazzo A.  
69.  
? Title: Microwave Imaging for the Diagnosis of Cervical Diseases: A Feasibility Analysis  
? Venue: IEEE Journal of Electromagnetics RF and Microwaves in Medicine and Biology  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 27  
? Doi: 10.1109/Jerm.2020.3042711  
? Scopus ID: 2-s2.0-85097952145  
? eISSN: 24697249  
? Volume: 5  
? Issue: 3  
? Pages: 277-285  
? Authors: Dachena Chiara; Fedeli Alessandro; Fanti Alessandro; Lodi Matteo B.; Pastorino Matteo; Randazzo Andrea  
? Keywords: inverse problems | Microwave imaging | spinal cord | tomography  
? Quartile:  
2025:  
? Radiation (Q1, rank 4, percentile 95)  
? Radiology, Nuclear Medicine and Imaging (Q1, rank 26, percentile 92)  
? Instrumentation (Q1, rank 22, percentile 88)  
2021:  
? Radiation (Q1, rank 5, percentile 91)  
? Instrumentation (Q1, rank 17, percentile 87)  
? Radiology, Nuclear Medicine and Imaging (Q1, rank 57, percentile 81)  
? Source Id: 21100902029

- ? Author Ids: 57206901870;55512997500;36664325500;57211403950;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60032259-60114714;60032259;60025153;60025153  
? Corresponding: Dachena C.
- 70.
- ? Title: Through-the-Wall Imaging by means of a Hybrid Inverse-Scattering Procedure  
? Venue: 2021 34th General Assembly and Scientific Symposium of the International Union  
of Radio Science Ursi Gass 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.23919/Ursigass51995.2021.9560268  
? Scopus ID: 2-s2.0-85118261941  
? Authors: Randazzo Andrea; Ponti Cristina; Schenone Valentina; Fedeli Alessandro;  
Estatico Claudio; D'Atanasio Paolo; Pastorino Matteo; Schettini Giuseppe  
? Source Id: 21101063823  
? Author Ids: 7006280562;26536362600;57216360162;55512997500;9739222400;6506533668;7004  
880389;7102615533  
? Authoraffiliationids:  
60025153;60012630;60025153;60025153;60025153;60003686;60025153;60012630  
? Corresponding: Randazzo A.
- 71.
- ? Title: An Iterative Multifrequency Approach in L<sub>p</sub>Spaces for Multiscaling Detection of  
Buried Objects  
? Venue: 2021 34th General Assembly and Scientific Symposium of the International Union  
of Radio Science Ursi Gass 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.23919/Ursigass51995.2021.9560286  
? Scopus ID: 2-s2.0-85118253765  
? Authors: Randazzo Andrea; Capra Federico; Estatico Claudio; Fedeli Alessandro;  
Salucci Marco; Zardi Francesco; Pastorino Matteo  
? Source Id: 21101063823  
? Author Ids:  
7006280562;57316782200;9739222400;55512997500;54387549100;57206727509;7004880389  
? Authoraffiliationids: 60025153;60015986;60025153;60025153;60015986;60015986;60025153  
? Corresponding: Randazzo A.
- 72.
- ? Title: FE-Based Microwave Inverse Scattering in Nonconstant-Exponent Spaces: A  
Numerical Assessment  
? Venue: 2021 International Conference on Electromagnetics in Advanced Applications  
Iceaa 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Iceaa52647.2021.9539589  
? Scopus ID: 2-s2.0-85116307583  
? Pages: 351  
? Authors: Fedeli A.; Schenone V.; Pastorino M.; Randazzo A.  
? Source Id: 21101060563  
? Author Ids: 55512997500;57216360162;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Fedeli A.

73.

? Title: Two Ways for Early Detection of a Stroke through a Wearable Smart Helmet: Signal Processing vs. Electromagnetism

? Venue: IEEE Wireless Communications

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 12

? Doi: 10.1109/Mwc.001.2000401

? Scopus ID: 2-s2.0-85111168674

? Issn: 15361284

? eISSN: 15580687

? Volume: 28

? Issue: 3

? Pages: 22-27

? Authors: Bisio Igor; Fedeli Alessandro; Garibotto Chiara; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 24, percentile 97)

? Computer Science Applications (Q1, rank 29, percentile 97)

2021:

? Computer Science Applications (Q1, rank 5, percentile 99)

? Electrical and Electronic Engineering (Q1, rank 10, percentile 98)

? Source Id: 18935

? Author Ids: 8546192900;55512997500;57053502600;7004136693;7004880389;7006280562

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

? Corresponding: Bisio I.

74.

? Title: A Breath Monitoring Approach Based on Electrical Impedance Measurements

? Venue: IEEE Journal of Electromagnetics RF and Microwaves in Medicine and Biology

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 4

? Doi: 10.1109/Jerm.2020.3031491

? Scopus ID: 2-s2.0-85106984949

? eISSN: 24697249

? Volume: 5

? Issue: 2

? Pages: 179-186

? Authors: Tavanti Emanuele; Gambari Gianluca; Boero Federico; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea

? Keywords: breath rate monitoring | Electrical impedance | wearable devices

? Quartile:

2025:

? Radiation (Q1, rank 4, percentile 95)

? Radiology, Nuclear Medicine and Imaging (Q1, rank 26, percentile 92)

? Instrumentation (Q1, rank 22, percentile 88)

2021:

? Radiation (Q1, rank 5, percentile 91)

? Instrumentation (Q1, rank 17, percentile 87)

? Radiology, Nuclear Medicine and Imaging (Q1, rank 57, percentile 81)  
? Source Id: 21100902029  
? Author Ids: 57038817000;57218476376;57200958692;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;126296272;126296272;60025153;60025153;60025153  
? Corresponding: Tavanti E.

75.

? Title: A Microwave Imaging Technique for Neck Diseases Monitoring  
? Venue: 15th European Conference on Antennas and Propagation Eucap 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.23919/EuCp51087.2021.9411191  
? Scopus ID: 2-s2.0-85105519543  
? Authors: Dachena Chiara; Fedeli Alessandro; Fanti Alessandro; Lodi Matteo B.; Pastorino Matteo; Randazzo Andrea  
? Keywords: Cervical disease | hybrid inversion approach | microwave imaging  
? Source Id: 21101044864  
? Author Ids: 57206901870;55512997500;36664325500;57200266678;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Dachena C.

76.

? Title: Nonlinear Inverse-Scattering in Variable-Exponent Spaces for Multifrequency Subsurface Imaging  
? Venue: 15th European Conference on Antennas and Propagation Eucap 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.23919/EuCp51087.2021.9411107  
? Scopus ID: 2-s2.0-85105431689  
? Authors: Fedeli Alessandro; Schenone Valentina; Estatico Claudio; Pastorino Matteo; Randazzo Andrea  
? Keywords: Inverse scattering | Lebesgue spaces | Subsurface imaging  
? Source Id: 21101044864  
? Author Ids: 55512997500;57216360162;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.

77.

? Title: Analysis of a nonlinear technique for microwave imaging of targets inside conducting cylinders  
? Venue: Electronics Switzerland  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 6  
? DOI: 10.3390/electronics10050594  
? Scopus ID: 2-s2.0-85101925769  
? eISSN: 20799292  
? Volume: 10  
? Issue: 5  
? Pages: 1-18  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Gragnani Gian Luigi  
? Keywords: Conducting cylinders | Inverse scattering | Tomography

? 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: 55512997500;7004880389;7006280562;6701681576

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Fedeli A.

78.

? Title: An Electrical Impedance Tomography System for Brain Stroke Imaging based on a Lebesgue-Space Inversion Procedure

? Venue: IEEE Journal of Electromagnetics RF and Microwaves in Medicine and Biology

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 3

? Doi: 10.1109/Jerm.2020.2994816

? Scopus ID: 2-s2.0-85101849905

? eISSN: 24697249

? Volume: 5

? Issue: 1

? Pages: 54-61

? Authors: Randazzo Andrea; Tavanti Emanuele; Mikulenas Mantas; Boero Federico; Fedeli Alessandro; Sansalone Andrea; Allasia Giorgio; Pastorino Matteo

? Keywords: Brain stroke | electrical impedance tomography | imaging | inverse problems  
| Lebesgue spaces

? Quartile:

2025:

- ? Radiation (Q1, rank 4, percentile 95)
- ? Radiology, Nuclear Medicine and Imaging (Q1, rank 26, percentile 92)
- ? Instrumentation (Q1, rank 22, percentile 88)

2021:

- ? Radiation (Q1, rank 5, percentile 91)
- ? Instrumentation (Q1, rank 17, percentile 87)
- ? Radiology, Nuclear Medicine and Imaging (Q1, rank 57, percentile 81)

? Source Id: 21100902029

? Author Ids: 7006280562;57038817000;57220067138;57200958692;55512997500;57200964848;36995727400;7004880389

? Authoraffiliationids:

60025153;60025153;120302456;120302456;60025153;120302456;120302456;60025153

? Corresponding: Randazzo A.

79.

? Title: Nonlinear S-Parameters Inversion for Stroke Imaging

? Venue: IEEE Transactions on Microwave Theory and Techniques

? Year: 2021

? Type: Journal  
? Subtype: Article  
? Citations: 77  
? Doi: 10.1109/Tmtt.2020.3040483  
? Scopus ID: 2-s2.0-85097963222  
? Issn: 00189480  
? eISSN: 15579670  
? Volume: 69  
? Issue: 3  
? Pages: 1760-1771  
? Authors: Fedeli Alessandro; Schenone Valentina; Randazzo Andrea; Pastorino Matteo; Henriksson Tommy; Semenov Serguei  
? Keywords: Finite elements | inverse problems | Lebesgue spaces | S-parameters | stroke imaging  
? Quartile:  
2025:  
? Radiation (Q1, rank 3, percentile 96)  
? Condensed Matter Physics (Q1, rank 48, percentile 89)  
? Electrical and Electronic Engineering (Q1, rank 120, percentile 88)  
2021:  
? Radiation (Q1, rank 3, percentile 95)  
? Condensed Matter Physics (Q1, rank 42, percentile 90)  
? Electrical and Electronic Engineering (Q1, rank 96, percentile 86)  
? Source Id: 17366  
? Author Ids: 55512997500;57216360162;7006280562;7004880389;59826002200;7103074188  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;114934399;114934399  
? Corresponding: Fedeli A.

80.  
? Title: An Antenna Array Diagnostic Technique based on a Lebesgue-Space Inversion Procedure  
? Venue: 2021 IEEE Conference on Antenna Measurements and Applications Cama 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Cama49227.2021.9703531  
? Scopus ID: 2-s2.0-85126743484  
? Pages: 524-527  
? Authors: Schenone Valentina; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: Antenna diagnostics | inverse source | Lebesgue spaces  
? Source Id: 21101081726  
? Author Ids: 57216360162;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.

81.  
? Title: Microwave Imaging of Dielectric Targets by Means of a Variable-Exponent Finite-Elements Approach  
? Venue: 2021 IEEE Conference on Antenna Measurements and Applications Cama 2021  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Cama49227.2021.9703641  
? Scopus ID: 2-s2.0-85126734120

? Pages: 546-549  
? Authors: Schenone Valentina; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Estatico Claudio  
? Keywords: finite element methods | Inverse scattering | Lebesgue spaces  
? Source Id: 21101081726  
? Author Ids: 57216360162;55512997500;7004880389;7006280562;9739222400  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Schenone V.

82.

? Title: Effect of Data Noise on LSTM-FC Scattered-Field Processing for Microwave Imaging  
? Venue: Ist 2021 IEEE International Conference on Imaging Systems and Techniques Proceedings  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ist50367.2021.9651450  
? Scopus ID: 2-s2.0-85124373050  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: electromagnetic inverse scattering problems | long short-term memory | microwave imaging  
? Source Id: 21101075538  
? Author Ids: 55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.

83.

? Title: Microwave Tomography of the Neck with ANNs: Preliminary Results with Simplified Numerical Phantoms  
? Venue: Ist 2021 IEEE International Conference on Imaging Systems and Techniques Proceedings  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ist50367.2021.9651379  
? Scopus ID: 2-s2.0-85124356071  
? Authors: Dachena Chiara; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Fanti Alessandro; Lodi Matteo Bruno; Fumera Giorgio  
? Keywords: artificial neural networks | Microwave imaging | neck phantom  
? Source Id: 21101075538  
? Author Ids:  
57206901870;55512997500;7004880389;7006280562;36664325500;57211403950;6602513262  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60032259;60032259;60032259  
? Corresponding: Dachena C.

84.

? Title: Microwave Characterization and Modeling of the Carasau Bread Doughs during Leavening  
? Venue: IEEE Access  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 18  
? Doi: 10.1109/Access.2021.3131207

? Scopus ID: 2-s2.0-85120542395  
? eISSN: 21693536  
? Volume: 9  
? Pages: 159833-159847  
? Authors: Lodi Matteo Bruno; Curreli Nicola; Melis Andrea; Garau Emanuele; Fanari Fabio; Fedeli Alessandro; Randazzo Andrea; Mazzarella Giuseppe; Fanti Alessandro  
? Keywords: Carasau bread dough | dielectric materials | dielectric measurements | dielectric spectroscopy | food manufacturing | microwave measurements | open-ended coaxial probe | thermogravimetric analysis  
? Quartile:  
2025:  
? Engineering (all) (Q1, rank 42, percentile 88)  
? Computer Science (all) (Q1, rank 41, percentile 83)  
? Materials Science (all) (Q1, rank 101, percentile 78)  
2021:  
? Engineering (all) (Q1, rank 28, percentile 90)  
? Computer Science (all) (Q1, rank 34, percentile 85)  
? Subject (Q1, rank 124, percentile 82)  
? Materials Science (all) (Q1, rank 104, percentile 77)  
? Source Id: 21100374601  
? Author Ids: 57211403950;56487698400;41262209800;57189625838;57206902315;55512997500;7006280562;7006097620;36664325500  
? Authoraffiliationids: 60032259-126431541;60102151;60032259;60032259;126431541-60025153;126431541-60025153;60032259-126431541;60032259-126431541  
? Corresponding: Lodi M.B.  
85.  
? Title: Microwave Imaging of the Neck by Means of Artificial Neural Networks for Tumor Detection  
? Venue: IEEE Open Journal of Antennas and Propagation  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 23  
? Doi: 10.1109/Ojap.2021.3121177  
? Scopus ID: 2-s2.0-85118250325  
? eISSN: 26376431  
? Volume: 2  
? Pages: 1044-1056  
? Authors: Dachena Chiara; Fedeli Alessandro; Fanti Alessandro; Lodi Matteo Bruno; Fumera Giorgio; Randazzo Andrea; Pastorino Matteo  
? Keywords: artificial neural networks | biomedical imaging | inverse scattering | machine learning | Microwave imaging | neck tumors  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 199, percentile 80)  
2021:  
? Electrical and Electronic Engineering (Q3, rank 446, percentile 37)  
? Source Id: 21101059745  
? Author Ids: 57206901870;55512997500;36664325500;57211403950;6602513262;7006280562;7004880389  
? Authoraffiliationids: 60025153;60025153;60032259-60114714;60032259;60032259;60025153;60025153  
? Corresponding: Dachena C.

86.

? Title: A through-the-wall imaging approach based on a tsvd/variable-exponent lebesgue-space method  
? Venue: Remote Sensing  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 7  
? DOI: 10.3390/rs13112028  
? Scopus ID: 2-s2.0-85106976784  
? eISSN: 20724292  
? Volume: 13  
? Issue: 11  
? Authors: Randazzo Andrea; Ponti Cristina; Fedeli Alessandro; Estatico Claudio; D'atanasio Paolo; Pastorino Matteo; Schettini Giuseppe  
? Keywords: Electromagnetic problems | Inverse scattering | Microwave imaging | Through-wall radar  
? Quartile:  
2025:  
? Earth and Planetary Sciences (all) (Q1, rank 12, percentile 94)  
2021:  
? Earth and Planetary Sciences (all) (Q1, rank 17, percentile 91)  
? Source Id: 86430  
? Author Ids:  
7006280562;26536362600;55512997500;9739222400;6506533668;7004880389;7102615533  
? Authoraffiliationids: 60025153;60012630;60025153;60025153;60003686;60025153;60012630  
? Corresponding: Randazzo A.

87.

? Title: Low-Cost FMCW Radar Human-Vehicle Classification Based on Transfer Learning  
? Venue: Proceedings of the International Conference on Microelectronics Icm  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Icm50269.2020.9331808  
? Scopus ID: 2-s2.0-85100556948  
? Volume: 2020-December  
? Authors: Rizik Ali; Randazzo Andrea; Vio Roberto; Delucchi Alessandro; Chible Hussien; Caviglia Daniele D.  
? Keywords: 24 GHz | 2D FFT Processing | classification | CNN | FMCW radar | low-cost radar | Range-Doppler map | Transfer Learning  
? Source Id: 144854  
? Author Ids: 57214804817;7006280562;57214794400;57204907662;7801443090;7004012654  
? Authoraffiliationids: 60025153;60025153;123864795;123864795;60068774;60025153  
? Corresponding: Rizik A.

88.

? Title: Pedestrian and multi-class vehicle classification in radar systems using rulex software on the raspberry pi  
? Venue: Applied Sciences Switzerland  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 7  
? DOI: 10.3390/app10249113

? Scopus ID: 2-s2.0-85098128693  
? eISSN: 20763417  
? Volume: 10  
? Issue: 24  
? Pages: 1-10  
? Authors: Daher Ali Walid; Rizik Ali; Randazzo Andrea; Tavanti Emanuele; Chible Hussein; Muselli Marco; Caviglia Daniele D.  
? Keywords: Cascading | Edge computing | Internet of things | Machine learning | Radar  
? Quartile:  
2025:  
? Engineering (all) (Q1, rank 69, percentile 80)  
? Instrumentation (Q1, rank 38, percentile 80)  
? Fluid Flow and Transfer Processes (Q1, rank 21, percentile 79)  
? Computer Science Applications (Q2, rank 294, percentile 70)  
? Materials Science (all) (Q2, rank 166, percentile 64)  
? Process Chemistry and Technology (Q2, rank 34, percentile 55)  
2020:  
? Engineering (all) (Q2, rank 85, percentile 71)  
? Instrumentation (Q2, rank 49, percentile 62)  
? Fluid Flow and Transfer Processes (Q2, rank 34, percentile 59)  
? Computer Science Applications (Q2, rank 300, percentile 56)  
? Materials Science (all) (Q2, rank 222, percentile 51)  
? Process Chemistry and Technology (Q2, rank 30, percentile 50)  
? Source Id: 21100829268  
? Author Ids:  
57275978700;57214804817;7006280562;57038817000;7801443090;7003496128;7004012654  
? Authoraffiliationids: 60025153-60068774-60021199;60025153-60068774;60025153;60025153;60068774;60021199;60025153  
? Corresponding: Daher A.W.

89.  
? Title: A Phaseless Microwave Imaging Approach Based on a Lebesgue-Space Inversion Algorithm  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 28  
? Doi: 10.1109/TAP.2020.2999789  
? Scopus ID: 2-s2.0-85086699132  
? Issn: 0018926x  
? eISSN: 15582221  
? Volume: 68  
? Issue: 12  
? Pages: 8091-8103  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Tavanti Emanuele  
? Keywords: Amplitude-only | Banach spaces | inverse problems | microwave imaging | regularization  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)  
2020:  
? Electrical and Electronic Engineering (Q1, rank 59, percentile 91)  
? Source Id: 17337

- ? Author Ids: 9739222400;55512997500;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.
90.  
? Title: Single Target Recognition Using a Low-Cost FMCW Radar Based on Spectrum Analysis  
? Venue: Icecs 2020 27th IEEE International Conference on Electronics Circuits and Systems Proceedings  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 8  
? Doi: 10.1109/Icecs49266.2020.9294819  
? Scopus ID: 2-s2.0-85099448120  
? Authors: Rizik Ali; Tavanti Emanuele; Vio Roberto; Delucchi Alessandro; Chible Hussien; Randazzo Andrea; Caviglia Daniele D.  
? Keywords: 24 GHz | Classification | Feature Extraction | FMCW Radar | Range and Doppler Profiles | Range-Doppler Map | Spectrum Analysis | Target Recognition  
? Source Id: 21101033916  
? Author Ids:  
57214804817;57038817000;57214794400;57204907662;7801443090;7006280562;7004012654  
? Authoraffiliationids:  
60068774-60025153;60068774;123864795;123864795;60025153;60068774;60068774  
? Corresponding: Rizik A.
91.  
? Title: A Microwave Imaging System for the Detection of Targets Hidden behind Dielectric Walls  
? Venue: 2020 33rd General Assembly and Scientific Symposium of the International Union of Radio Science Ursi Gass 2020  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.23919/Ursigass49373.2020.9232008  
? Scopus ID: 2-s2.0-85096866467  
? Authors: Cicchetti Renato; Cicchetti Valentina; Costanzo Sandra; D'Atanasio Paolo; Fedeli Alessandro; Pastorino Matteo; Pisa Stefano; Pittella Erika; Piuzzi Emanuele; Ponti Cristina; Randazzo Andrea; Santarsiero Massimo; Schettini Giuseppe; Testa Orlandino  
? Source Id: 21101028579  
? Author Ids: 7004398705;57215835098;14029886000;6506533668;55512997500;7004880389;6603887757;24802635400;6603094570;26536362600;7006280562;7006864478;7102615533;6602217029  
? Authoraffiliationids: 60032350;60032350;60020261;60003686;60025153;60025153;60032350;60134847;60032350;60012630;60025153;60012630;60012630;60032350  
? Corresponding: Cicchetti R.
92.  
? Title: A Microwave Diagnostic Technique for Early-Stage Brain Stroke Characterization  
? Venue: 2020 33rd General Assembly and Scientific Symposium of the International Union of Radio Science Ursi Gass 2020  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.23919/Ursigass49373.2020.9232318

? Scopus ID: 2-s2.0-85096860633  
? Authors: Fedeli Alessandro; Randazzo Andrea; Sciarrone Andrea; Bisio Igor; Lavagetto Fabio; Pastorino Matteo  
? Source Id: 21101028579  
? Author Ids: 55512997500;7006280562;36180166900;8546192900;7004136693;7004880389  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.

93.

? Title: Multi-Frequency Inversion of Scattered-Field Data in Lebesgue Spaces with Nonconstant Exponents  
? Venue: 2020 33rd General Assembly and Scientific Symposium of the International Union of Radio Science Ursi Gass 2020  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.23919/Ursigass49373.2020.9232449  
? Scopus ID: 2-s2.0-85096841201  
? Authors: Fedeli Alessandro; Estatico Claudio; Randazzo Andrea; Pastorino Matteo  
? Source Id: 21101028579  
? Author Ids: 55512997500;9739222400;7006280562;7004880389  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.

94.

? Title: Through-the-wall microwave imaging: Forward and inverse scattering modeling  
? Venue: Sensors Switzerland  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 25  
? DOI: 10.3390/s20102865  
? Scopus ID: 2-s2.0-85085101004  
? Issn: 14248220  
? Volume: 20  
? Issue: 10  
? Authors: Fedeli Alessandro; Pastorino Matteo; Ponti Cristina; Randazzo Andrea; Schettini Giuseppe  
? Keywords: Buried objects | Electromagnetic scattering | Inverse scattering | Microwave imaging | Through-wall radar  
? 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: 55512997500;7004880389;26536362600;7006280562;7102615533

? Authoraffiliationids: 60025153;60025153;60012630;60025153;60012630

? Corresponding: Fedeli A.

95.

? Title: Variable-Exponent Lebesgue-Space Inversion for Brain Stroke Microwave Imaging

? Venue: IEEE Transactions on Microwave Theory and Techniques

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 68

? Doi: 10.1109/Tmtt.2019.2963870

? Scopus ID: 2-s2.0-85084808560

? Issn: 00189480

? eISSN: 15579670

? Volume: 68

? Issue: 5

? Pages: 1882-1895

? Authors: Bisio Igor; Estatico Claudio; Fedeli Alessandro; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea; Sciarrone Andrea

? Keywords: Brain stroke imaging | Inverse problems | Lebesgue spaces

? Quartile:

2025:

? Radiation (Q1, rank 3, percentile 96)

? Condensed Matter Physics (Q1, rank 48, percentile 89)

? Electrical and Electronic Engineering (Q1, rank 120, percentile 88)

2020:

? Radiation (Q1, rank 3, percentile 95)

? Condensed Matter Physics (Q1, rank 38, percentile 90)

? Electrical and Electronic Engineering (Q1, rank 82, percentile 88)

? Source Id: 17366

? Author Ids:

8546192900;9739222400;55512997500;7004136693;7004880389;7006280562;36180166900

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

? Corresponding: Bisio I.

96.

? Title: A Tomographic Multistatic System for Biomedical Microwave Sensing

? Venue: 14th European Conference on Antennas and Propagation EuCap 2020

? Year: 2020

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? DOI: 10.23919/EuCAP48036.2020.9135211

? Scopus ID: 2-s2.0-85088655098

? Authors: Bisio Igor; Estatico Claudio; Fedeli Alessandro; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea; Sciarrone Andrea

? Keywords: biomedical sensing | measurement systems | Microwave imaging

? Source Id: 21101018617

? Author Ids:

8546192900;9739222400;55512997500;7004136693;7004880389;7006280562;36180166900

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

? Corresponding: Bisio I.

97.

? Title: Forward and Inverse Scattering Models Applied to Through-Wall Imaging

? Venue: 14th European Conference on Antennas and Propagation Eucap 2020  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? DOI: 10.23919/EuCp48036.2020.9135860  
? Scopus ID: 2-s2.0-85088654263  
? Authors: Fedeli A.; Pastorino M.; Ponti C.; Randazzo A.; Schettini G.  
? Keywords: forward electromagnetic scattering | inverse problems | microwave imaging | Through-the-wall imaging  
? Source Id: 21101018617  
? Author Ids: 55512997500;7004880389;26536362600;7006280562;7102615533  
? Authoraffiliationids: 60025153;60025153;60012630;60025153;60025153  
? Corresponding: Fedeli A.

98.

? Title: Inverse Scattering in the Framework of Unconventional Lebesgue Spaces: A Case Study  
? Venue: 14th European Conference on Antennas and Propagation Eucap 2020  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.23919/EuCp48036.2020.9135827  
? Scopus ID: 2-s2.0-85088654090  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: inverse scattering | Lebesgue spaces | Microwave imaging  
? Source Id: 21101018617  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

99.

? Title: Microwave Imaging of Cervical Myelopathy: A Preliminary Feasibility Assessment  
? Venue: 14th European Conference on Antennas and Propagation Eucap 2020  
? Year: 2020  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.23919/EuCp48036.2020.9135437  
? Scopus ID: 2-s2.0-85088651069  
? Authors: Dachena Chiara; Fanti Alessandro; Fedeli Alessandro; Mazzarella Giuseppe; Pastorino Matteo; Randazzo Andrea  
? Keywords: cervical myelopathy | inverse problems | Microwave imaging  
? Source Id: 21101018617  
? Author Ids: 57206901870;36664325500;55512997500;7006097620;7004880389;7006280562  
? Authoraffiliationids: 60025153;60032259;60025153;60025153;60025153;60025153  
? Corresponding: Dachena C.

100.

? Title: Microwave imaging sensors  
? Venue: Imaging Sensor Technologies and Applications  
? Year: 2020  
? Type: Book  
? Subtype: Book Chapter  
? Citations: 1  
? Scopus ID: 2-s2.0-85114973816

? Pages: 227-252  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Source Id: 21101059071  
? Author Ids: 55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.

101.

? Title: Microwave detection of brain injuries by means of a hybrid imaging method  
? Venue: IEEE Open Journal of Antennas and Propagation  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 33  
? Doi: 10.1109/Ojap.2020.3024276  
? Scopus ID: 2-s2.0-85105467352  
? eISSN: 26376431  
? Volume: 1  
? Pages: 513-523  
? Authors: Fedeli Alessandro; Estatico Claudio; Pastorino Matteo; Randazzo Andrea  
? Keywords: brain stroke | hybrid methods | inverse scattering | Microwave imaging  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 199, percentile 80)  
? Source Id: 21101059745  
? Author Ids: 55512997500;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.

102.

? Title: A hybrid asymptotic-FVTD method for the estimation of the radar cross section of 3D structures  
? Venue: Electronics Switzerland  
? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 5  
? DOI: 10.3390/electronics8121388  
? Scopus ID: 2-s2.0-85075458868  
? eISSN: 20799292  
? Volume: 8  
? Issue: 12  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: Finite volume methods | Numerical simulation | Physical optics | Radar cross-section  
? Quartile:  
2025:  
? Signal Processing (Q1, rank 36, percentile 81)  
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)  
? Control and Systems Engineering (Q1, rank 91, percentile 76)  
? Computer Networks and Communications (Q1, rank 131, percentile 76)  
? Hardware and Architecture (Q2, rank 62, percentile 73)  
2019:  
? Electrical and Electronic Engineering (Q3, rank 376, percentile 43)  
? Computer Networks and Communications (Q3, rank 173, percentile 43)  
? Control and Systems Engineering (Q3, rank 142, percentile 41)

- ? Signal Processing (Q3, rank 64, percentile 38)  
? Hardware and Architecture (Q3, rank 109, percentile 30)  
? Source Id: 21100829272  
? Author Ids: 55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.
103.  
? Title: Feature extraction for human-vehicle classification in FMCW Radar  
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icecs 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 12  
? Doi: 10.1109/Icecs46596.2019.8965072  
? Scopus ID: 2-s2.0-85079179246  
? Pages: 131-132  
? Authors: Rizik Ali; Randazzo Andrea; Vio Roberto; Delucchi Alessandro; Chible Hussien; Caviglia Daniele D.  
? Keywords: 2D FFT | Doppler features | Feature extraction | FMCW radar  
? Source Id: 21100944554  
? Author Ids: 57214804817;7006280562;57214794400;57204907662;7801443090;7004012654  
? Authoraffiliationids:  
60025153-60068774;60025153;123864795;123864795;60068774;60025153  
? Corresponding: Rizik A.
104.  
? Title: Nonlinear inverse-scattering methods in lebesgue spaces applied to microwave imaging problems  
? Venue: Proceedings of the 2019 21st International Conference on Electromagnetics in Advanced Applications Iceaa 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Iceaa.2019.8879297  
? Scopus ID: 2-s2.0-85074928601  
? Pages: 676  
? Authors: Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.  
? Source Id: 21100935204  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.
105.  
? Title: Microwave imaging by means of lebesgue-space inversion: An overview  
? Venue: Electronics Switzerland  
? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 38  
? DOI: 10.3390/electronics8090945  
? Scopus ID: 2-s2.0-85071979448  
? eISSN: 20799292  
? Volume: 8  
? Issue: 9

? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: Inverse problems | Inverse scattering | Lebesgue spaces | Microwave imaging

? Quartile:

2025:

- ? Signal Processing (Q1, rank 36, percentile 81)
- ? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
- ? Control and Systems Engineering (Q1, rank 91, percentile 76)
- ? Computer Networks and Communications (Q1, rank 131, percentile 76)
- ? Hardware and Architecture (Q2, rank 62, percentile 73)

2019:

- ? Electrical and Electronic Engineering (Q3, rank 376, percentile 43)
- ? Computer Networks and Communications (Q3, rank 173, percentile 43)
- ? Control and Systems Engineering (Q3, rank 142, percentile 41)
- ? Signal Processing (Q3, rank 64, percentile 38)
- ? Hardware and Architecture (Q3, rank 109, percentile 30)

? Source Id: 21100829272

? Author Ids: 9739222400;55512997500;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Estatico C.

106.

? Title: A Field Assessment of a Rain Estimation System Based on Satellite-to-Earth  
Microwave Links

? Venue: IEEE Transactions on Geoscience and Remote Sensing

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 21

? Doi: 10.1109/Tgrs.2018.2878338

? Scopus ID: 2-s2.0-85057877821

? Issn: 01962892

? Volume: 57

? Issue: 5

? Pages: 2864-2875

? Authors: Colli Matteo; Stagnaro Mattia; Caridi Andrea; Lanza Luca G.; Randazzo  
Andrea; Pastorino Matteo; Caviglia Daniele D.; Delucchi Alessandro

? Keywords: Atmospheric measurements | attenuation measurements | geophysical  
measurement techniques | microwave measurements

? Quartile:

2025:

- ? Earth and Planetary Sciences (all) (Q1, rank 6, percentile 97)
- ? Electrical and Electronic Engineering (Q1, rank 37, percentile 96)

2019:

- ? Earth and Planetary Sciences (all) (Q1, rank 5, percentile 97)
- ? Electrical and Electronic Engineering (Q1, rank 43, percentile 93)

? Source Id: 17360

? Author Ids: 48161076500;57192199544;57204916103;7005744799;7006280562;7004880389;7004  
012654;57204907662

? Authoraffiliationids: 60025153-122492693;122492693-60025153;117766650;122492693-  
60025153;60025153;60025153;60025153-117766650;117766650

? Corresponding: Colli M.

107.

? Title: Mapping the dielectric properties of unknown targets by using a network of  
microwave sensors: A proof-of-concept

? Venue: Sensors Switzerland

? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? DOI: 10.3390/s19061270  
? Scopus ID: 2-s2.0-85063013153  
? Issn: 14248220  
? Volume: 19  
? Issue: 6  
? Authors: Estatico Claudio; Fedeli Alessandro; Gragnani Gian Luigi; Pastorino Matteo; Randazzo Andrea  
? Keywords: Inverse scattering | Microwaves | Sensor networks

? 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: 9739222400;55512997500;6701681576;7004880389;7006280562

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

? Corresponding: Estatico C.

108.

? Title: Microwave Imaging in Stratified Media: A Multifrequency Inverse-Scattering Approach  
? Venue: 13th European Conference on Antennas and Propagation Eucap 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Scopus ID: 2-s2.0-85068461515  
? Authors: Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.  
? Keywords: buried object detection | Microwave imaging | stratified media  
? Source Id: 21100915238  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

109.

? Title: Three-Dimensional Microwave Imaging by Using a Conjugate-Gradient Approach in L<sup>p</sup> Banach Spaces  
? Venue: 13th European Conference on Antennas and Propagation Eucap 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0

? Scopus ID: 2-s2.0-85068445788  
? Authors: Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.; Tavanti E.  
? Keywords: Banach spaces | conjugate gradient | inverse problems | Microwave imaging | Newton scheme  
? Source Id: 21100915238  
? Author Ids: 9739222400;55512997500;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

110.

? Title: Microwave imaging of 3D dielectric structures by means of a Newton-CG method in  $L_p$  spaces  
? Venue: International Journal of Antennas and Propagation  
? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 4  
? Doi: 10.1155/2019/2841937  
? Scopus ID: 2-s2.0-85073885316  
? Issn: 16875869  
? eISSN: 16875877  
? Volume: 2019  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Tavanti Emanuele  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q2, rank 379, percentile 62)  
2019:  
? Electrical and Electronic Engineering (Q2, rank 329, percentile 50)  
? Source Id: 19700186861  
? Author Ids: 9739222400;55512997500;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

111.

? Title: A field experiment of rainfall intensity estimation based on the analysis of satellite-to-earth microwave link attenuation  
? Venue: Lecture Notes in Electrical Engineering  
? Year: 2019  
? Type: Book Series  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1007/978-3-030-11973-7\_17  
? Scopus ID: 2-s2.0-85066904683  
? Issn: 18761100  
? eISSN: 18761119  
? Volume: 550  
? Issue: 9783030119720  
? Pages: 137-144  
? Authors: Colli M.; Stagnaro M.; Caridi A.; Lanza L. G.; Randazzo A.; Pastorino M.; Caviglia D. D.; Delucchi A.  
? Quartile:  
2025:  
? Industrial and Manufacturing Engineering (Q4, rank 330, percentile 19)  
2019:  
? Industrial and Manufacturing Engineering (Q3, rank 246, percentile 27)

? Source Id: 19700186822  
? Author Ids: 48161076500;57192199544;57204916103;7005744799;7006280562;7004880389;7004012654;57204907662  
? Authoraffiliationids: 60025153-122676623;60025153-122676623;117766650;60025153-122676623;60025153;60025153-117766650;117766650  
? Corresponding: Colli M.

112.

? Title: Microwave Sensor Network for Quantitative Characterization of Targets: A Proof-of-Concept  
? Venue: Proceedings 2018 Advances in Wireless and Optical Communications Rtuwo 2018  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Rtuwo.2018.8587908  
? Scopus ID: 2-s2.0-85061059494  
? Pages: 246-250  
? Authors: Fedeli Alessandro; Gragnani Gian Luigi; Pastorino Matteo; Randazzo Andrea  
? Keywords: inverse scattering. | microwaves | Sensor networks  
? Source Id: 21100897133  
? Author Ids: 55512997500;6701681576;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.

113.

? Title: An imaging technique for brain stroke monitoring at microwaves  
? Venue: Ist 2018 IEEE International Conference on Imaging Systems and Techniques Proceedings  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Ist.2018.8577144  
? Scopus ID: 2-s2.0-85060708378  
? Authors: Bisio Igor; Estatico Claudio; Fedeli Alessandro; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea; Sciarrone Andrea; Tavanti Emanuele  
? Keywords: Banach spaces | brain stroke detection. | inverse problems | Microwave imaging  
? Source Id: 21100896625  
? Author Ids: 8546192900;9739222400;55512997500;7004136693;7004880389;7006280562;36180166900;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bisio I.

114.

? Title: A Newton-conjugate-gradient method in L p banach spaces for three-dimensional microwave imaging  
? Venue: Ist 2018 IEEE International Conference on Imaging Systems and Techniques Proceedings  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ist.2018.8577135  
? Scopus ID: 2-s2.0-85060681388

? Authors: Estatico Claudio; Pastorino Alessandro Fedeli Matteo; Pastorino Matteo; Randazzo Andrea; Tavanti Emanuele  
? Keywords: Banach spaces | conjugate gradient method | Imaging techniques | inverse problems | microwaves | Newton schemes  
? Source Id: 21100896625  
? Author Ids: 9739222400;57224553053;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

115.

? Title: Three-Dimensional Microwave Imaging in Lp Banach Spaces: Numerical and Experimental Results  
? Venue: IEEE Transactions on Computational Imaging  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 13  
? Doi: 10.1109/Tci.2018.2859634  
? Scopus ID: 2-s2.0-85063194227  
? Issn: 25730436  
? eISSN: 23339403  
? Volume: 4  
? Issue: 4  
? Pages: 609-623  
? Authors: Estatico Claudio; Pastorino Matteo; Randazzo Andrea; Tavanti Emanuele  
? Keywords: dielectrics | imaging | inverse scattering | Microwaves  
? Source Id: 21100854164  
? Author Ids: 9739222400;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

116.

? Title: Quantitative Microwave Imaging Method in Lebesgue Spaces with Nonconstant Exponents  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 43  
? Doi: 10.1109/Tap.2018.2869201  
? Scopus ID: 2-s2.0-85053131396  
? Issn: 0018926x  
? Volume: 66  
? Issue: 12  
? Pages: 7282-7284  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: Inexact-Newton method | inverse scattering | Lebesgue spaces | microwave imaging  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)  
2018:  
? Electrical and Electronic Engineering (Q1, rank 59, percentile 91)  
? Source Id: 17337  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153

- ? Corresponding: Estatico C.  
117.  
? Title: Brain Stroke Imaging by Means of Microwave Tomography: Quantitative Inversion Procedure, Configuration Set Up, and Preliminary Experimental Results  
? Venue: 2018 2nd Ursi Atlantic Radio Science Meeting at Rasc 2018  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.23919/Ursi-At-Rasc.2018.8471649  
? Scopus ID: 2-s2.0-85055853024  
? Authors: Bisio I.; Fedeli A.; Lavagetto F.; Mancardi G. L.; Pastorino M.; Randazzo A.; Sciarrone A.  
? Source Id: 21100883677  
? Author Ids:  
8546192900;55512997500;7004136693;10939054400;7004880389;7006280562;36180166900  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bisio I.  
118.  
? Title: Comparison between Conjugate Gradient and Landweber Based Regularization Approaches in L p Banach Spaces for Microwave Tomography  
? Venue: 2018 2nd Ursi Atlantic Radio Science Meeting at Rasc 2018  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.23919/Ursi-At-Rasc.2018.8471495  
? Scopus ID: 2-s2.0-85055812802  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Source Id: 21100883677  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.  
119.  
? Title: Microwave Imaging Method Developed in Lebesgue Spaces for Inspecting Dielectric Targets  
? Venue: 2018 2nd Ursi Atlantic Radio Science Meeting at Rasc 2018  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.23919/Ursi-At-Rasc.2018.8471350  
? Scopus ID: 2-s2.0-85055766878  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Source Id: 21100883677  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.  
120.  
? Title: Design and Experimental Test of a Microwave System for Quantitative Biomedical Imaging  
? Venue: Memea 2018 2018 IEEE International Symposium on Medical Measurements and Applications Proceedings  
? Year: 2018

? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 6  
? DOI: 10.1109/MeMeA.2018.8438599  
? Scopus ID: 2-s2.0-85053147256  
? Authors: Maffongelli Manuela; Poretti Samuel; Salvadò Andrea; Monleone Ricardo; Pagnamenta Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: biomedical applications | microwave systems | nonlinear inversion  
? Source Id: 21100876721  
? Author Ids: 36682904800;25927504500;15623387700;15623618300;23569965500;55512997500;7004880389;7006280562  
? Authoraffiliationids:  
60101870;60101870;60101870;60101870;60101870;60025153;60025153;60025153  
? Corresponding: Maffongelli M.

121.

? Title: Brain stroke microwave imaging by means of a newton-conjugate-gradient method in = L p Banach Spaces  
? Venue: IEEE Transactions on Microwave Theory and Techniques  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 72  
? Doi: 10.1109/Tmtt.2018.2849060  
? Scopus ID: 2-s2.0-85049946543  
? Issn: 00189480  
? Volume: 66  
? Issue: 8  
? Pages: 3668-3682  
? Authors: Bisio Igor; Estatico Claudio; Fedeli Alessandro; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea; Sciarrone Andrea  
? Keywords: Banach spaces | brain stroke detection | conjugate gradient (CG) | inverse problems | microwave imaging

? Quartile:

2025:

? Radiation (Q1, rank 3, percentile 96)  
? Condensed Matter Physics (Q1, rank 48, percentile 89)  
? Electrical and Electronic Engineering (Q1, rank 120, percentile 88)

2018:

? Radiation (Q1, rank 4, percentile 93)  
? Condensed Matter Physics (Q1, rank 45, percentile 88)  
? Electrical and Electronic Engineering (Q1, rank 85, percentile 87)

? Source Id: 17366

? Author Ids:

8546192900;9739222400;55512997500;7004136693;7004880389;7006280562;36180166900  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bisio I.

122.

? Title: Microwave Tomography for the Inspection of Wood Materials: Imaging System and Experimental Results  
? Venue: IEEE Transactions on Microwave Theory and Techniques  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 66

? Doi: 10.1109/Tmtt.2018.2804905  
? Scopus ID: 2-s2.0-85042685466  
? Issn: 00189480  
? Volume: 66  
? Issue: 7  
? Pages: 3497-3510  
? Authors: Boero Federico; Fedeli Alessandro; Lanini Matteo; Maffongelli Manuela; Monleone Ricardo; Pastorino Matteo; Randazzo Andrea; Salvadò Andrea; Sansalone Andrea  
? Keywords: Imaging | inverse scattering | microwave systems | tomography | wood  
? Quartile:  
2025:  
? Radiation (Q1, rank 3, percentile 96)  
? Condensed Matter Physics (Q1, rank 48, percentile 89)  
? Electrical and Electronic Engineering (Q1, rank 120, percentile 88)  
2018:  
? Radiation (Q1, rank 4, percentile 93)  
? Condensed Matter Physics (Q1, rank 45, percentile 88)  
? Electrical and Electronic Engineering (Q1, rank 85, percentile 87)  
? Source Id: 17366  
? Author Ids: 57200958692;55512997500;41761929500;36682904800;15623618300;7004880389;7006280562;15623387700;57200964848  
? Authoraffiliationids: 120302456;60025153;60101870;60101870;60101870;60025153;60025153;60101870;120302456  
? Corresponding: Boero F.  
123.  
? Title: A numerical study concerning brain stroke detection by microwave imaging systems  
? Venue: Multimedia Tools and Applications  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 36  
? DOI: 10.1007/s11042-017-4867-7  
? Scopus ID: 2-s2.0-85021268021  
? Issn: 13807501  
? eISSN: 15737721  
? Volume: 77  
? Issue: 8  
? Pages: 9341-9363  
? Authors: Bisio Igor; Fedeli Alessandro; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea; Sciarrone Andrea; Tavanti Emanuele  
? Keywords: Brain stroke detection | Imaging techniques | Inverse problems | Microwave imaging  
? Quartile:  
2025:  
? Media Technology (Q1, rank 6, percentile 92)  
? Computer Networks and Communications (Q1, rank 79, percentile 85)  
? Software (Q1, rank 79, percentile 84)  
? Hardware and Architecture (Q1, rank 39, percentile 83)  
2018:  
? Media Technology (Q1, rank 13, percentile 82)  
? Computer Networks and Communications (Q2, rank 110, percentile 62)  
? Hardware and Architecture (Q2, rank 66, percentile 57)  
? Software (Q3, rank 188, percentile 48)

? Source Id: 25627

? Author Ids:

8546192900;55512997500;7004136693;7004880389;7006280562;36180166900;57038817000

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

? Corresponding: Bisio I.

124.

? Title: Brain stroke detection by means of complex dielectric permittivity reconstruction at microwaves

? Venue: 2017 IEEE MTT S International Microwave Workshop Series on Advanced Materials and Processes for RF and Thz Applications Imws Amp 2017

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Imws-Amp.2017.8247391

? Scopus ID: 2-s2.0-85045998283

? Pages: 1-3

? Authors: Bisio I.; Fedeli A.; Lavagetto F.; Pastorino M.; Randazzo A.; Sciarrone A.

? Keywords: brain stroke detection | dielectric permittivity reconstruction | inverse problems | microwave imaging

? Source Id: 21100858149

? Author Ids: 8546192900;55512997500;7004136693;7004880389;7006280562;36180166900

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

? Corresponding: Bisio I.

125.

? Title: Wood characterization by using microwave inverse scattering: Experimental results

? Venue: 2017 IEEE MTT S International Microwave Workshop Series on Advanced Materials and Processes for RF and Thz Applications Imws Amp 2017

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Doi: 10.1109/Imws-Amp.2017.8247389

? Scopus ID: 2-s2.0-85045980781

? Pages: 1-3

? Authors: Fedeli A.; Pastorino M.; Randazzo A.; Lanini M.; Maffongelli M.; Monleone R.

? Keywords: inverse scattering | material characterization | Microwave imaging | wood

? Source Id: 21100858149

? Author Ids: 55512997500;7004880389;7006280562;41761929500;36682904800;15623618300

? Authoraffiliationids: 60025153;60025153;60025153;60101870;60101870;60101870

? Corresponding: Fedeli A.

126.

? Title: A tomograph prototype for quantitative microwave imaging: Preliminary experimental results

? Venue: Journal of Imaging

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 17

? DOI: 10.3390/jimaging4120139

? Scopus ID: 2-s2.0-85062263840

? eISSN: 2313433X

? Volume: 4

- ? Issue: 12  
? Authors: Fedeli Alessandro; Maffongelli Manuela; Monleone Ricardo; Pagnamenta Claudio; Pastorino Matteo; Poretti Samuel; Randazzo Andrea; Salvadò Andrea  
? Keywords: Inverse problems | Microwave imaging | Tomography  
? Quartile:  
2025:  
? Radiology, Nuclear Medicine and Imaging (Q1, rank 46, percentile 87)  
? Computer Graphics and Computer-Aided Design (Q1, rank 24, percentile 82)  
? Computer Vision and Pattern Recognition (Q1, rank 33, percentile 80)  
? Electrical and Electronic Engineering (Q1, rank 202, percentile 79)  
2018:  
? Electrical and Electronic Engineering (Q3, rank 410, percentile 38)  
? Computer Vision and Pattern Recognition (Q3, rank 52, percentile 36)  
? Computer Graphics and Computer-Aided Design (Q3, rank 50, percentile 35)  
? Radiology, Nuclear Medicine and Imaging (Q3, rank 201, percentile 27)  
? Source Id: 21100900151  
? Author Ids: 55512997500;36682904800;15623618300;23569965500;7004880389;25927504500;7006280562;15623387700  
? Authoraffiliationids:  
60025153;60101870;60101870;60101870;60025153;60101870;60025153;60101870  
? Corresponding: Fedeli A.
127.  
? Title: A numerical analysis of the two-dimensional Green's function for elliptically stratified media  
? Venue: Iet Conference Publications  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.1049/cp.2018.0970  
? Scopus ID: 2-s2.0-85057341089  
? Volume: 2018  
? Issue: CP741  
? Authors: Fedeli Alessandro; Pastorino Matteo; Raffetto Mirco; Randazzo Andrea  
? Keywords: Electromagnetic scattering | Green's function | Integral equations | Stratified media  
? Source Id: 5400152619  
? Author Ids: 55512997500;7004880389;6701772951;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.
128.  
? Title: 2-D Green's Function for Scattering and Radiation Problems in Elliptically Layered Media with PEC Cores  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2017  
? Type: Journal  
? Subtype: Article  
? Citations: 7  
? Doi: 10.1109/TAP.2017.2761421  
? Scopus ID: 2-s2.0-85031798854  
? Issn: 0018926x  
? Volume: 65  
? Issue: 12  
? Pages: 7110-7118

? Authors: Fedeli Alessandro; Pastorino Matteo; Raffetto Mirco; Randazzo Andrea

? Keywords: Electromagnetic scattering | Green's function | integral equations | stratified media

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)

2017:

? Electrical and Electronic Engineering (Q1, rank 59, percentile 91)

? Source Id: 17337

? Author Ids: 55512997500;7004880389;6701772951;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Fedeli A.

129.

? Title: An inverse scattering procedure in Lebesgue spaces with non-constant exponents

? Venue: 2017 32nd General Assembly and Scientific Symposium of the International Union of Radio Science Ursi Gass 2017

? Year: 2017

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.23919/Ursigass.2017.8105143

? Scopus ID: 2-s2.0-85046158550

? Volume: 2017-January

? Pages: 1-4

? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea

? Source Id: 21100858363

? Author Ids: 9739222400;55512997500;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Estatico C.

130.

? Title: Electromagnetic biomedical imaging in Banach spaces: A numerical case study

? Venue: 2017 32nd General Assembly and Scientific Symposium of the International Union of Radio Science Ursi Gass 2017

? Year: 2017

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Doi: 10.23919/Ursigass.2017.8105127

? Scopus ID: 2-s2.0-85046147425

? Volume: 2017-January

? Pages: 1-3

? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea

? Source Id: 21100858363

? Author Ids: 55512997500;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Fedeli A.

131.

? Title: A nonlinear iterative inverse scattering procedure in  $L^p$  Banach spaces for microwave biomedical imaging

? Venue: Proceedings of the 2017 19th International Conference on Electromagnetics in Advanced Applications Iceaa 2017

? Year: 2017

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0  
? Doi: 10.1109/Iceaa.2017.8065683  
? Scopus ID: 2-s2.0-85035136063  
? Pages: 1921-1924  
? Authors: Bisio I.; Estatico C.; Fedeli A.; Lavagetto F.; Pastorino M.; Randazzo A.; Sciarrone A.  
? Source Id: 21100840335  
? Author Ids:  
8546192900;9739222400;55512997500;7004136693;7004880389;7006280562;36180166900  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bisio I.

132.

? Title: Ground-penetrating radar for tree trunk investigation  
? Venue: 2017 9th International Workshop on Advanced Ground Penetrating Radar Iwagpr 2017 Proceedings  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? Doi: 10.1109/Iwagpr.2017.7996079  
? Scopus ID: 2-s2.0-85028536195  
? Authors: Jezova Jana; Lambot Sebastien; Fedeli Alessandro; Randazzo Andrea  
? Source Id: 21100828696  
? Author Ids: 57190184444;6602626321;55512997500;7006280562  
? Authoraffiliationids: 60000874;60000874;60025153;60025153  
? Corresponding: Jezova J.

133.

? Title: Preliminary assessment of an Lp Banach-space inversion approach for through-The-wall imaging  
? Venue: 2017 IEEE Conference on Antenna Measurements and Applications Cama 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Cama.2017.8273391  
? Scopus ID: 2-s2.0-85046267253  
? Volume: 2018-January  
? Pages: 167-169  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Todella Silvio  
? Keywords: Banach spaces | Inverse problems | Through-The-wall imaging  
? Source Id: 21101179609  
? Author Ids: 55512997500;7004880389;7006280562;57201862132  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Fedeli A.

134.

? Title: Microwave data inversion in hemorrhagic brain stroke imaging: A Newton-conjugate-gradient based approach in Lp Banach spaces (Invited paper)  
? Venue: 2017 IEEE Conference on Antenna Measurements and Applications Cama 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Cama.2017.8273423  
? Scopus ID: 2-s2.0-85046247707

? Volume: 2018-January  
? Pages: 275-278  
? Authors: Bisio Igor; Fedeli Alessandro; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea; Sciarrone Andrea; Estatico Claudio  
? Keywords: Banach spaces | Brain stroke detection | Inverse problems | Microwave imaging  
? Source Id: 21101179609  
? Author Ids:  
8546192900;55512997500;7004136693;7004880389;7006280562;36180166900;9739222400  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bisio I.

135.

? Title: Three-dimensional electromagnetic imaging of dielectric targets by means of the multiscale inexact-Newton method

? Venue: Journal of the Optical Society of America A Optics and Image Science and Vision

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 25

? Doi: 10.1364/Josaa.34.001119

? Scopus ID: 2-s2.0-85021665187

? Issn: 10847529

? eISSN: 15208532

? Volume: 34

? Issue: 7

? Pages: 1119-1131

? Authors: Salucci Marco; Oliveri Giacomo; Anselmi Nicola; Viani Federico; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea

? Quartile:

2025:

? Computer Vision and Pattern Recognition (Q2, rank 78, percentile 54)

? Atomic and Molecular Physics, and Optics (Q3, rank 134, percentile 43)

? Electronic, Optical and Magnetic Materials (Q3, rank 180, percentile 41)

2017:

? Computer Vision and Pattern Recognition (Q2, rank 23, percentile 70)

? Electronic, Optical and Magnetic Materials (Q2, rank 71, percentile 68)

? Atomic and Molecular Physics, and Optics (Q2, rank 55, percentile 67)

? Source Id: 12320

? Author Ids:

54387549100;6701615935;55749784900;23092071900;55512997500;7004880389;7006280562

? Authoraffiliationids:

60015986;60015986-60007136;60015986;60015986;60025153;60025153;60025153

? Corresponding: Salucci M.

136.

? Title: Feasibility assessment of a Banach-space inversion procedure for biomedical applications

? Venue: 2017 11th European Conference on Antennas and Propagation EuCap 2017

? Year: 2017

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.23919/EuCAP.2017.7928247

? Scopus ID: 2-s2.0-85020216525

- ? Pages: 677-681  
? Authors: Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.  
? Keywords: Banach spaces | brain stroke detection | inverse problems | Microwave imaging  
? Source Id: 21100817591  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.
137.  
? Title: Numerical analysis of the performance of a multi-frequency inversion scheme for subsurface prospection  
? Venue: 2017 11th European Conference on Antennas and Propagation EuCap 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.23919/EuCAP.2017.7928228  
? Scopus ID: 2-s2.0-85020163234  
? Pages: 1718-1722  
? Authors: Fedeli A.; Pastorino M.; Randazzo A.  
? Keywords: Banach spaces | Buried object detection | electromagnetic imaging | inverse problems  
? Source Id: 21100817591  
? Author Ids: 55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.
138.  
? Title: Application of EMFs at microwave frequencies for brain stroke detection: Preliminary results  
? Venue: 2017 International Applied Computational Electromagnetics Society Symposium Italy Aces 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.23919/Ropaces.2017.7916405  
? Scopus ID: 2-s2.0-85020002223  
? Authors: Bisio I.; Fedeli A.; Lavagetto F.; Luzzati G.; Pastorino M.; Raffetto M.; Randazzo A.; Tavanti E.  
? Keywords: Brain stroke detection | Imaging techniques | Inverse problems | Microwave imaging  
? Source Id: 21100817102  
? Author Ids: 8546192900;55512997500;7004136693;55372214300;7004880389;6701772951;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bisio I.
139.  
? Title: Pros and cons of microwave imaging techniques for the reconstruction of velocity profiles of cylindrical targets in axial motion  
? Venue: 2017 International Applied Computational Electromagnetics Society Symposium Italy Aces 2017  
? Year: 2017  
? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.23919/Ropaces.2017.7916391  
? Scopus ID: 2-s2.0-85019998814  
? Authors: Brignone Massimo; Pastorino Matteo; Raffetto Mirco; Randazzo Andrea  
? Source Id: 21100817102  
? Author Ids: 8580886100;7004880389;6701772951;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Brignone M.

140.

? Title: Mobile smart helmet for brain stroke early detection through neural network-based signals analysis  
? Venue: Proceedings IEEE Global Communications Conference Globecom  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 6  
? Doi: 10.1109/Glocom.2017.8255029  
? Scopus ID: 2-s2.0-85046449869  
? Issn: 23340983  
? eISSN: 25766813  
? Volume: 2018-January  
? Pages: 1-6  
? Authors: Bisio Igor; Fedeli Alessandro; Lavagetto Fabio; Pastorino Matteo; Randazzo Andrea; Sciarrone Andrea; Tavanti Emanuele  
? Quartile:  
2025:  
? Signal Processing (Q2, rank 90, percentile 54)  
? Computer Networks and Communications (Q2, rank 260, percentile 52)  
? Artificial Intelligence (Q3, rank 262, percentile 47)  
? Hardware and Architecture (Q3, rank 129, percentile 45)  
? Source Id: 21101199922  
? Author Ids:  
8546192900;55512997500;7004136693;7004880389;7006280562;36180166900;57038817000  
? Authoraffiliationids:  
60025153-60015024;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bisio I.

141.

? Title: Advanced inversion techniques for ground penetrating radar  
? Venue: Journal of Telecommunications and Information Technology  
? Year: 2017  
? Type: Journal  
? Subtype: Article  
? Citations: 6  
? DOI: 10.26636/jtit.2017.119717  
? Scopus ID: 2-s2.0-85030681774  
? Issn: 15094553  
? eISSN: 18998852  
? Volume: 2017  
? Issue: 3  
? Pages: 37-42  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: Electromagnetic scattering | Ground Penetrating Radar | Inverse problems  
? Quartile:

2025:

- ? Electrical and Electronic Engineering (Q3, rank 515, percentile 48)
- ? Computer Networks and Communications (Q3, rank 285, percentile 47)

2017:

- ? Electrical and Electronic Engineering (Q3, rank 455, percentile 31)
- ? Computer Networks and Communications (Q3, rank 199, percentile 28)

? Source Id: 21100229111

? Author Ids: 55512997500;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Fedeli A.

142.

? Title: Further investigations on the capabilities of inverse scattering procedures to recover velocity profiles of cylinders moving in the axial direction

? Venue: Ist 2016 2016 IEEE International Conference on Imaging Systems and Techniques Proceedings

? Year: 2016

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Ist.2016.7738247

? Scopus ID: 2-s2.0-85004075873

? Pages: 335-340

? Authors: Brignone Massimo; Fedeli Alessandro; Gragnani Gian Luigi; Pastorino Matteo; Raffetto Mirco; Randazzo Andrea

? Source Id: 21100788403

? Author Ids: 8580886100;55512997500;6701681576;7004880389;6701772951;7006280562

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

? Corresponding: Brignone M.

143.

? Title: Brain stroke detection by microwave imaging systems: Preliminary two-dimensional numerical simulations

? Venue: Ist 2016 2016 IEEE International Conference on Imaging Systems and Techniques Proceedings

? Year: 2016

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 9

? Doi: 10.1109/Ist.2016.7738246

? Scopus ID: 2-s2.0-85004000433

? Pages: 330-334

? Authors: Bisio I.; Fedeli A.; Lavagetto F.; Luzzati G.; Pastorino M.; Randazzo A.; Tavanti E.

? Keywords: brain stroke detection | imaging techniques | inverse problems | Microwave imaging

? Source Id: 21100788403

? Author Ids:

8546192900;55512997500;7004136693;55372214300;7004880389;7006280562;57038817000

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

? Corresponding: Bisio I.

144.

? Title: Microwave imaging systems: Three-dimensional reconstructions of dielectric targets

? Venue: Ist 2016 2016 IEEE International Conference on Imaging Systems and Techniques Proceedings

? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ist.2016.7738283  
? Scopus ID: 2-s2.0-85003956493  
? Pages: 532-536  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Tavanti Emanuele  
? Keywords: Banach-space regularization | inexact-Newton scheme | inverse problems | Microwave imaging  
? Source Id: 21100788403  
? Author Ids: 9739222400;55512997500;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

145.

? Title: Phaseless tomographic inverse scattering in Banach spaces  
? Venue: Journal of Physics Conference Series  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1088/1742-6596/756/1/012010  
? Scopus ID: 2-s2.0-84994504423  
? Issn: 17426588  
? eISSN: 17426596  
? Volume: 756  
? Issue: 1  
? Authors: Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.; Tavanti E.  
? Quartile:  
2025:  
? Physics and Astronomy (all) (Q4, rank 192, percentile 22)  
2016:  
? Physics and Astronomy (all) (Q3, rank 154, percentile 25)  
? Source Id: 130053  
? Author Ids: 9739222400;55512997500;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

146.

? Title: Experimental analysis of dielectric structures with a two-step electromagnetic imaging method  
? Venue: 2016 Ursi International Symposium on Electromagnetic Theory Emnts 2016  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ursi-Emnts.2016.7571298  
? Scopus ID: 2-s2.0-84992146842  
? Pages: 13-15  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Poretti Samuel; Monleone Ricardo; Salvade Andrea  
? Source Id: 21100782626  
? Author Ids: 55512997500;7004880389;7006280562;25927504500;15623618300;15623387700  
? Authoraffiliationids: 60025153;60025153;60025153;60101870;60101870;60101870

- ? Corresponding: Fedeli A.  
147.  
? Title: A three-dimensional microwave imaging approach based on a Lp Banach space inversion procedure  
? Venue: 2016 Ursi International Symposium on Electromagnetic Theory Emnts 2016  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ursi-Emnts.2016.7571337  
? Scopus ID: 2-s2.0-84992125262  
? Pages: 148-151  
? Authors: Estatico Claudio; Pastorino Matteo; Randazzo Andrea; Tavanti Emanuele  
? Source Id: 21100782626  
? Author Ids: 9739222400;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.  
148.  
? Title: Alphabet CS for inverse scattering  
? Venue: 2016 Ursi International Symposium on Electromagnetic Theory Emnts 2016  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ursi-Emnts.2016.7571335  
? Scopus ID: 2-s2.0-84992104370  
? Pages: 141-143  
? Authors: Anselmi Nicola; Poli Lorenzo; Randazzo Andrea; Oliveri Giacomo  
? Source Id: 21100782626  
? Author Ids: 55749784900;35190999400;7006280562;6701615935  
? Authoraffiliationids: 60015986;60015986;60025153;60015986  
? Corresponding: Anselmi N.  
149.  
? Title: Multi-resolution approaches for GPR-data inversion  
? Venue: 2016 Ursi International Symposium on Electromagnetic Theory Emnts 2016  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ursi-Emnts.2016.7571299  
? Scopus ID: 2-s2.0-84992036369  
? Pages: 16-18  
? Authors: Salucci Marco; Tenuti Lorenza; Randazzo Andrea; Rocca Paolo  
? Source Id: 21100782626  
? Author Ids: 54387549100;55758048000;7006280562;22035972900  
? Authoraffiliationids: 60007136-60015986;60015986;60025153;60015986  
? Corresponding: Salucci M.  
150.  
? Title: Noise Limitations on the Recovery of Average Values of Velocity Profiles in Pipelines by Simple Imaging Systems  
? Venue: IEEE Geoscience and Remote Sensing Letters  
? Year: 2016  
? Type: Journal  
? Subtype: Article

? Citations: 12  
? Doi: 10.1109/Lgrs.2016.2584703  
? Scopus ID: 2-s2.0-84978886220  
? Issn: 1545598x  
? Volume: 13  
? Issue: 9  
? Pages: 1340-1344  
? Authors: Brignone Massimo; Gragnani Gian Luigi; Pastorino Matteo; Raffetto Mirco; Randazzo Andrea  
? Keywords: Bianisotropic media | inverse scattering procedures | moving media | reconstruction of velocity profiles | time-harmonic electromagnetic scattering  
? Quartile:  
2025:  
? Geotechnical Engineering and Engineering Geology (Q1, rank 22, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 90, percentile 91)  
2016:  
? Geotechnical Engineering and Engineering Geology (Q1, rank 4, percentile 98)  
? Electrical and Electronic Engineering (Q1, rank 76, percentile 88)  
? Source Id: 17259  
? Author Ids: 8580886100;6701681576;7004880389;6701772951;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Brignone M.  
151.  
? Title: A two-step multifrequency imaging technique for ground penetrating radar  
? Venue: 2016 10th European Conference on Antennas and Propagation EuCap 2016  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.1109/EuCAP.2016.7482009  
? Scopus ID: 2-s2.0-84979238821  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: buried objects | electromagnetic imaging | ground penetrating radar | Newton methods  
? Source Id: 21100469367  
? Author Ids: 55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.  
152.  
? Title: A Banach Space Regularization Approach for Multifrequency Microwave Imaging  
? Venue: International Journal of Antennas and Propagation  
? Year: 2016  
? Type: Journal  
? Subtype: Article  
? Citations: 18  
? Doi: 10.1155/2016/9304371  
? Scopus ID: 2-s2.0-84964066487  
? Issn: 16875869  
? eISSN: 16875877  
? Volume: 2016  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q2, rank 379, percentile 62)

2016:

? Electrical and Electronic Engineering (Q2, rank 283, percentile 56)

? Source Id: 19700186861

? Author Ids: 9739222400;55512997500;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Estatico C.

153.

? Title: A multifrequency Banach-space inversion method for ground penetrating radar imaging

? Venue: 2015 European Radar Conference Eurad 2015 Proceedings

? Year: 2015

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.1109/EuRAD.2015.7346278

? Scopus ID: 2-s2.0-84962859653

? Pages: 225-228

? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Estatico Claudio

? Keywords: Banach spaces | Electromagnetic propagation | Ground penetrating radar | Microwave imaging | Newton method

? Source Id: 21100455483

? Author Ids: 55512997500;7004880389;7006280562;9739222400

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Fedeli A.

154.

? Title: Nonlinear electromagnetic inverse scattering in via Frozen or Broyden update of the Fr'chet derivative

? Venue: Journal of Physics Conference Series

? Year: 2015

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1088/1742-6596/657/1/012008

? Scopus ID: 2-s2.0-84953265905

? Issn: 17426588

? eISSN: 17426596

? Volume: 657

? Issue: 1

? Authors: Tavanti E.; Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.

? Quartile:

2025:

? Physics and Astronomy (all) (Q4, rank 192, percentile 22)

2015:

? Physics and Astronomy (all) (Q4, rank 156, percentile 22)

? Source Id: 130053

? Author Ids: 57038817000;9739222400;55512997500;7004880389;7006280562

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

? Corresponding: Tavanti E.

155.

? Title: Three-dimensional microwave imaging through a multi-zooming Inexact-Newton approach

? Venue: IEEE Antennas and Propagation Society AP S International Symposium Digest

? Year: 2015

? Type: Conference Proceeding

- ? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Aps.2015.7305038  
? Scopus ID: 2-s2.0-84953729280  
? Issn: 15223965  
? Volume: 2015-October  
? Pages: 1298-1299  
? Authors: Salucci M.; Oliveri G.; Viani F.; Massa A.; Randazzo A.; Pastorino M.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q4, rank 853, percentile 14)  
2015:  
? Electrical and Electronic Engineering (Q3, rank 491, percentile 25)  
? Source Id: 18719  
? Author Ids: 54387549100;6701615935;23092071900;7005085831;7006280562;7004880389  
? Authoraffiliationids:  
60015986-60007136;60015986;60015986;60015986-60007136;60025153;60025153  
? Corresponding: Salucci M.
156.  
? Title: Reconstruction of velocity profiles of two-dimensional targets by an inverse scattering procedure based on a numerical forward solver  
? Venue: 2015 1st Ursi Atlantic Radio Science Conference Ursi at Rasc 2015  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ursi-At-Rasc.2015.7302852  
? Scopus ID: 2-s2.0-84959485934  
? Authors: Brignone Massimo; Pastorino Matteo; Raffetto Mirco; Randazzo Andrea  
? Source Id: 21100448536  
? Author Ids: 8580886100;7004880389;6701772951;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Brignone M.
157.  
? Title: Microwave imaging of dielectric targets by means of an inexact-Newton method in L<sub>p</sub> banach spaces and multifrequency processing  
? Venue: 2015 1st Ursi Atlantic Radio Science Conference Ursi at Rasc 2015  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ursi-At-Rasc.2015.7302953  
? Scopus ID: 2-s2.0-84959454424  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Source Id: 21100448536  
? Author Ids: 55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.
158.  
? Title: Multi-focusing inexact-Newton method for three-dimensional microwave imaging  
? Venue: Proceedings of the 2015 International Conference on Electromagnetics in Advanced Applications Iiceaa 2015  
? Year: 2015  
? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Iceaa.2015.7297205  
? Scopus ID: 2-s2.0-84955502332  
? Pages: 712-715  
? Authors: Salucci M.; Tenuti L.; Fedeli A.; Randazzo A.  
? Keywords: Dielectrics | Image reconstruction | Microwave antennas | Microwave imaging | Microwave theory and techniques  
? Source Id: 21100440505  
? Author Ids: 54387549100;55758048000;55512997500;7006280562  
? Authoraffiliationids: 60015986;60015986;60025153;60025153  
? Corresponding: Salucci M.

159.

? Title: Reconstruction of non-constant velocity profiles in pneumatic pipelines by microwave inverse scattering techniques  
? Venue: Proceedings of the 2015 International Conference on Electromagnetics in Advanced Applications Iceaa 2015  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Iceaa.2015.7297125  
? Scopus ID: 2-s2.0-84955459853  
? Pages: 309-312  
? Authors: Brignone M.; Raffetto M.; Randazzo A.  
? Keywords: Inverse problems | Noise measurement | Optimization | Permittivity | Scattering | Signal to noise ratio  
? Source Id: 21100440505  
? Author Ids: 8580886100;6701772951;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Brignone M.

160.

? Title: A hybrid FVTD-PO approach for the characterization of antennas on large platforms in naval applications  
? Venue: Mts IEEE Oceans 2015 Genova Discovering Sustainable Ocean Energy for A New World  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.1109/OCEANS-Genova.2015.7271689  
? Scopus ID: 2-s2.0-84957705598  
? Authors: Cerruti Matteo; Pastorino Matteo; Randazzo Andrea  
? Keywords: electromagnetic scattering | finite-volume timedomain method | physical optics | Time domain electromagnetics  
? Source Id: 21100444318  
? Author Ids: 56166539200;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Cerruti M.

161.

? Title: A radar cross section and radar performance evaluation tool for the early stage ship design (ESSD) phase  
? Venue: Mts IEEE Oceans 2015 Genova Discovering Sustainable Ocean Energy for A New World

? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? DOI: 10.1109/OCEANS-Genova.2015.7271580  
? Scopus ID: 2-s2.0-84957687191  
? Authors: Cerruti Matteo; Pastorino Matteo; Randazzo Andrea; Perra Francesco; Guagnano Aldo  
? Keywords: Electromagnetic scattering | Radar Cross Section | Radar performances | Ship Synthesis Model  
? Source Id: 21100444318  
? Author Ids: 56166539200;7004880389;7006280562;55344075500;55344026400  
? Authoraffiliationids: 60025153;60025153;60025153;113018194;113018194  
? Corresponding: Cerruti M.

162.

? Title: A multifrequency inexact-Newton method in  $L^p$  banach spaces for buried objects detection  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2015  
? Type: Journal  
? Subtype: Article  
? Citations: 62  
? Doi: 10.1109/TAP.2015.2446995  
? Scopus ID: 2-s2.0-84940977791  
? Issn: 0018926x  
? Volume: 63  
? Issue: 9  
? Pages: 4198-4204  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: Banach spaces | Buried object detection | Electromagnetic scattering inverse problems | Newton method  
? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)

2015:

? Subject (Q1, rank 36, percentile 91)

? Electrical and Electronic Engineering (Q1, rank 62, percentile 90)

? Source Id: 17337

? Author Ids: 9739222400;55512997500;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Estatico C.

163.

? Title: Quantitative microwave imaging in  $L^p$  Banach spaces: A numerical assessment  
? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/I2mtc.2015.7151599  
? Scopus ID: 2-s2.0-84938839803  
? Issn: 10915281  
? Volume: 2015-July  
? Pages: 2055-2060  
? Authors: Fedeli A.; Pastorino M.; Randazzo A.

- ? Keywords: Dielectrics | Imaging measurement | Inverse problems | Microwave imaging |  
Newton methods
- ? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)
- 2015:  
? Electrical and Electronic Engineering (Q3, rank 402, percentile 39)
- ? Source Id: 15045  
? Author Ids: 55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.
164.  
? Title: Preliminary test of a prototype of microwave axial tomograph for medical applications  
? Venue: 2015 IEEE International Symposium on Medical Measurements and Applications  
Memea 2015 Proceedings  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 8  
? DOI: 10.1109/MeMeA.2015.7145170  
? Scopus ID: 2-s2.0-84939479842  
? Pages: 46-51  
? Authors: Maffongelli Manuela; Poretti Samuel; Salvade Andrea; Monleone Ricardo D.;  
Meani Francesco; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Keywords: Biomedical imaging | breast cancer | electromagnetic scattering | microwave imaging  
? Source Id: 21100403809  
? Author Ids: 36682904800;25927504500;15623387700;15623618300;57193555494;55512997500;7004880389;7006280562  
? Authoraffiliationids:  
60101870;60101870;60101870;60101870;127247793;60025153;60025153;60025153  
? Corresponding: Maffongelli M.
165.  
? Title: Hybrid microwave approach for phaseless imaging of dielectric targets  
? Venue: IEEE Geoscience and Remote Sensing Letters  
? Year: 2015  
? Type: Journal  
? Subtype: Article  
? Citations: 17  
? Doi: 10.1109/Lgrs.2014.2364077  
? Scopus ID: 2-s2.0-84920987059  
? Issn: 1545598x  
? Volume: 12  
? Issue: 4  
? Pages: 851-854  
? Authors: Costanzo Sandra; Di Massa Giuseppe; Pastorino Matteo; Randazzo Andrea  
? Keywords: Imaging | inverse scattering | microwaves | Phase retrieval  
? Quartile:  
2025:  
? Geotechnical Engineering and Engineering Geology (Q1, rank 22, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 90, percentile 91)
- 2015:  
? Geotechnical Engineering and Engineering Geology (Q1, rank 7, percentile 96)

? Electrical and Electronic Engineering (Q1, rank 89, percentile 86)  
? Source Id: 17259  
? Author Ids: 14029886000;57201738411;7004880389;7006280562  
? Authoraffiliationids: 60020261;60020261;60025153;60025153  
? Corresponding: Costanzo S.

166.

? Title: Electromagnetic inverse scattering of axially moving cylindrical targets  
? Venue: IEEE Transactions on Geoscience and Remote Sensing  
? Year: 2015  
? Type: Journal  
? Subtype: Article  
? Citations: 26  
? Doi: 10.1109/Tgrs.2014.2342933  
? Scopus ID: 2-s2.0-84907451923  
? Issn: 01962892  
? Volume: 53  
? Issue: 3  
? Pages: 1452-1462  
? Authors: Pastorino Matteo; Raffetto Mirco; Randazzo Andrea  
? Keywords: Bianisotropic media | Inverse scattering procedures | Moving media | Reconstruction of permittivity and velocity profiles | Time-harmonic electromagnetic scattering

? Quartile:

2025:

? Earth and Planetary Sciences (all) (Q1, rank 6, percentile 97)  
? Electrical and Electronic Engineering (Q1, rank 37, percentile 96)

2015:

? Earth and Planetary Sciences (all) (Q1, rank 4, percentile 97)  
? Electrical and Electronic Engineering (Q1, rank 33, percentile 95)

? Source Id: 17360

? Author Ids: 7004880389;6701772951;7006280562

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Pastorino M.

167.

? Title: Direct and inverse scattering of moving cylinders at relativistic and non relativistic velocities

? Venue: Mediterranean Microwave Symposium

? Year: 2015

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Mms.2015.7375503

? Scopus ID: 2-s2.0-84962764614

? Issn: 21579822

? eISSN: 21579830

? Volume: 2015-January

? Authors: Gragnani G. L.; Pastorino M.; Raffetto M.; Randazzo A.

? Keywords: Direct scattering problem | elliptic cylinder | inverse scattering problem | moving media | reconstruction of permittivity and velocity profiles

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 604, percentile 39)

? Source Id: 20600195647

? Author Ids: 6701681576;7004880389;6701772951;7006280562

- ? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Gragnani G.
168.  
? Title: A Banach-space multifrequency imaging approach for electromagnetic subsurface sensing  
? Venue: Mediterranean Microwave Symposium  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Mms.2015.7375371  
? Scopus ID: 2-s2.0-84962636475  
? Issn: 21579822  
? eISSN: 21579830  
? Volume: 2015-January  
? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea; Tavanti Emanuele  
? Keywords: Banach spaces | Electromagnetic propagation | Microwave imaging | Multifrequency processing | Subsurface sensing  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 604, percentile 39)  
? Source Id: 20600195647  
? Author Ids: 9739222400;55512997500;7004880389;7006280562;57038817000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.
169.  
? Title: A microwave tomographic system for wood characterization in the forest products industry  
? Venue: Wood Material Science and Engineering  
? Year: 2015  
? Type: Journal  
? Subtype: Article  
? Citations: 38  
? Doi: 10.1080/17480272.2014.898696  
? Scopus ID: 2-s2.0-84924306554  
? Issn: 17480272  
? eISSN: 17480280  
? Volume: 10  
? Issue: 1  
? Pages: 75-85  
? Authors: Pastorino Matteo; Randazzo Andrea; Fedeli Alessandro; Salvadò Andrea; Poretti Samuel; Maffongelli Manuela; Monleone Ricardo; Lanini Matteo  
? Keywords: inverse problems | microwave imaging | tomography | Wood industry  
? Quartile:  
2025:  
? Materials Science (all) (Q2, rank 169, percentile 63)  
2015:  
? Materials Science (all) (Q3, rank 236, percentile 46)  
? Source Id: 8700153309  
? Author Ids: 7004880389;7006280562;55512997500;15623387700;25927504500;36682904800;15623618300;41761929500  
? Authoraffiliationids:  
60025153;60025153;60025153;60101870;60101870;60101870;60101870;60101870

- ? Corresponding: Pastorino M.
- 170.
- ? Title: Buried object detection by means of a  $L_p$  Banach-space inversion procedure
  - ? Venue: Radio Science
  - ? Year: 2015
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 30
  - ? Doi: 10.1002/2014rs005542
  - ? Scopus ID: 2-s2.0-84923284693
  - ? Issn: 00486604
  - ? eISSN: 1944799X
  - ? Volume: 50
  - ? Issue: 1
  - ? Pages: 41-51
  - ? Authors: Estatico Claudio; Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea
  - ? Keywords: buried object detection | electromagnetic imaging | inexact Newton algorithm | inverse problems
  - ? Quartile:
- 2025:
- ? Earth and Planetary Sciences (all) (Q2, rank 89, percentile 55)
  - ? Electrical and Electronic Engineering (Q2, rank 483, percentile 51)
  - ? Condensed Matter Physics (Q3, rank 278, percentile 37)
- 2015:
- ? Earth and Planetary Sciences (all) (Q1, rank 35, percentile 79)
  - ? Electrical and Electronic Engineering (Q1, rank 159, percentile 75)
  - ? Condensed Matter Physics (Q2, rank 133, percentile 66)
- ? Source Id: 28580
  - ? Author Ids: 9739222400;55512997500;7004880389;7006280562
  - ? Authoraffiliationids: 60025153;60025153;60025153;60025153
  - ? Corresponding: Estatico C.
- 171.
- ? Title: Electromagnetic subsurface prospecting by a fully nonlinear multifocusing inexact Newton method
  - ? Venue: Journal of the Optical Society of America A Optics and Image Science and Vision
  - ? Year: 2014
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 24
  - ? Doi: 10.1364/Josaa.31.002618
  - ? Scopus ID: 2-s2.0-84942371960
  - ? Issn: 10847529
  - ? eISSN: 15208532
  - ? Volume: 31
  - ? Issue: 12
  - ? Pages: 2618-2629
  - ? Authors: Salucci Marco; Oliveri Giacomo; Randazzo Andrea; Pastorino Matteo; Massa Andrea
  - ? Quartile:
- 2025:
- ? Computer Vision and Pattern Recognition (Q2, rank 78, percentile 54)
  - ? Atomic and Molecular Physics, and Optics (Q3, rank 134, percentile 43)
  - ? Electronic, Optical and Magnetic Materials (Q3, rank 180, percentile 41)

2014:

- ? Electronic, Optical and Magnetic Materials (Q2, rank 57, percentile 72)
- ? Atomic and Molecular Physics, and Optics (Q2, rank 44, percentile 72)
- ? Computer Vision and Pattern Recognition (Q2, rank 22, percentile 66)
- ? Source Id: 12320
- ? Author Ids: 54387549100;6701615935;7006280562;7004880389;7005085831
- ? Authoraffiliationids: 60015986;60015986;60025153;60025153;60015986-60007136
- ? Corresponding: Salucci M.

172.

- ? Title: FVTD-based analysis of brain stroke response in microwave imaging systems
- ? Venue: Ist 2014 2014 IEEE International Conference on Imaging Systems and Techniques Proceedings
- ? Year: 2014
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 2
- ? Doi: 10.1109/Ist.2014.6958511
- ? Scopus ID: 2-s2.0-84916626652
- ? Pages: 392-397
- ? Authors: Cerruti Matteo; Pastorino Matteo; Randazzo Andrea
- ? Keywords: Brain stroke detection | Finite-Volume Time-Domain method | Microwave imaging
- ? Source Id: 21100349566
- ? Author Ids: 56166539200;7004880389;7006280562
- ? Authoraffiliationids: 60025153;60025153;60025153
- ? Corresponding: Cerruti M.

173.

- ? Title: Quick and reliable estimates of velocity profiles in pipelines by a simple electromagnetic inverse scattering technique
- ? Venue: Ist 2014 2014 IEEE International Conference on Imaging Systems and Techniques Proceedings
- ? Year: 2014
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 1
- ? Doi: 10.1109/Ist.2014.6958513
- ? Scopus ID: 2-s2.0-84916619947
- ? Pages: 404-409
- ? Authors: Pastorino Matteo; Raffetto Mirco; Randazzo Andrea; Fedeli Alessandro
- ? Keywords: bianisotropic media | Imaging systems | microwave tomography | moving media
- ? Source Id: 21100349566
- ? Author Ids: 7004880389;6701772951;7006280562;55512997500
- ? Authoraffiliationids: 60025153;60025153;60025153;60025153
- ? Corresponding: Pastorino M.

174.

- ? Title: A numerical analysis concerning microwave imaging in Lp Banach spaces by using an inexact Newton method
- ? Venue: Ist 2014 2014 IEEE International Conference on Imaging Systems and Techniques Proceedings
- ? Year: 2014
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 0
- ? Doi: 10.1109/Ist.2014.6958437

? Scopus ID: 2-s2.0-84916599108  
? Pages: 11-16  
? Authors: Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.  
? Keywords: Banach spaces | Inverse problems | Iterative algorithms | Microwave imaging | Newton method  
? Source Id: 21100349566  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Estatico C.

175.

? Title: Experimental validation of a novel Gauss-Newton inversion method for microwave tomographic imaging  
? Venue: 2014 31th Ursi General Assembly and Scientific Symposium Ursi Gass 2014  
? Year: 2014  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Ursigass.2014.6929057  
? Scopus ID: 2-s2.0-84919725108  
? Authors: Fedeli Alessandro; Pastorino Matteo; Randazzo Andrea  
? Source Id: 21100357902  
? Author Ids: 55512997500;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Fedeli A.

176.

? Title: Electromagnetic scattering by lossy multilayer elliptic cylinders  
? Venue: IEEE Microwave and Wireless Components Letters  
? Year: 2014  
? Type: Journal  
? Subtype: Article  
? Citations: 4  
? Doi: 10.1109/Lmwc.2014.2330498  
? Scopus ID: 2-s2.0-84930619974  
? Issn: 15311309  
? Volume: 24  
? Issue: 9  
? Pages: 584-586  
? Authors: Pastorino Matteo; Raffetto Mirco; Randazzo Andrea  
? Keywords: Electromagnetic scattering | inhomogeneous media | lossy materials  
? Quartile:  
2014:  
? Electrical and Electronic Engineering (Q1, rank 91, percentile 86)  
? Condensed Matter Physics (Q1, rank 55, percentile 86)  
? Source Id: 17295  
? Author Ids: 7004880389;6701772951;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Pastorino M.

177.

? Title: Electromagnetic subsurface prospecting by a multifocusing inexact Newton method within the second-order Born approximation  
? Venue: Journal of the Optical Society of America A Optics and Image Science and Vision  
? Year: 2014  
? Type: Journal

? Subtype: Article  
? Citations: 35  
? Doi: 10.1364/Josaa.31.001167  
? Scopus ID: 2-s2.0-84902278493  
? Issn: 10847529  
? eISSN: 15208532  
? Volume: 31  
? Issue: 6  
? Pages: 1167-1179  
? Authors: Salucci Marco; Oliveri Giacomo; Randazzo Andrea; Pastorino Matteo; Massa Andrea  
? Quartile:  
2025:  
? Computer Vision and Pattern Recognition (Q2, rank 78, percentile 54)  
? Atomic and Molecular Physics, and Optics (Q3, rank 134, percentile 43)  
? Electronic, Optical and Magnetic Materials (Q3, rank 180, percentile 41)  
2014:  
? Electronic, Optical and Magnetic Materials (Q2, rank 57, percentile 72)  
? Atomic and Molecular Physics, and Optics (Q2, rank 44, percentile 72)  
? Computer Vision and Pattern Recognition (Q2, rank 22, percentile 66)  
? Source Id: 12320  
? Author Ids: 54387549100;6701615935;7006280562;7004880389;7005085831  
? Authoraffiliationids: 60015986;60015986;60025153;60025153;60015986  
? Corresponding: Salucci M.

178.

? Title: Microwave imaging of dielectric targets by using the inexact-Newton method: A short review  
? Venue: 2014 IEEE Conference on Antenna Measurements and Applications Cama 2014  
? Year: 2014  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Cama.2014.7003373  
? Scopus ID: 2-s2.0-84946531247  
? Authors: Pastorino Matteo; Randazzo Andrea  
? Source Id: 21100369076  
? Author Ids: 7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Pastorino M.

179.

? Title: A Trainingless WiFi fingerprint positioning approach over mobile devices  
? Venue: IEEE Antennas and Wireless Propagation Letters  
? Year: 2014  
? Type: Journal  
? Subtype: Article  
? Citations: 89  
? Doi: 10.1109/Lawp.2014.2316973  
? Scopus ID: 2-s2.0-85018961542  
? Issn: 15361225  
? Volume: 13  
? Pages: 832-835  
? Authors: Bisio Igor; Cerruti Matteo; Lavagetto Fabio; Marchese Mario; Pastorino Matteo; Randazzo Andrea; Sciarrone Andrea  
? Keywords: Electromagnetic propagation | fingerprinting | finite-difference time-

domain method | indoor positioning

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 180, percentile 82)

2014:

? Electrical and Electronic Engineering (Q1, rank 89, percentile 86)

? Source Id: 18894

? Author Ids:

8546192900;56166539200;7004136693;7004398165;7004880389;7006280562;36180166900

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

? Corresponding: Bisio I.

180.

? Title: Two-dimensional green's function for scattering and radiation problems in elliptically-layered media

? Venue: IEEE Transactions on Antennas and Propagation

? Year: 2014

? Type: Journal

? Subtype: Article

? Citations: 12

? Doi: 10.1109/TAP.2014.2299817

? Scopus ID: 2-s2.0-84907421819

? Issn: 0018926x

? Volume: 62

? Issue: 4

? Pages: 2071-2080

? Authors: Pastorino Matteo; Raffetto Mirco; Randazzo Andrea

? Keywords: Electromagnetic scattering | Green function | integral equations | nonhomogeneous media

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)

2014:

? Electrical and Electronic Engineering (Q1, rank 54, percentile 91)

? Subject (Q1, rank 34, percentile 91)

? Source Id: 17337

? Author Ids: 7004880389;6701772951;7006280562

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Pastorino M.

181.

? Title: Electromagnetic inverse scattering of axially moving elliptic targets

? Venue: Proceedings of the 2013 International Conference on Electromagnetics in Advanced Applications Iceaa 2013

? Year: 2013

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Iceaa.2013.6632213

? Scopus ID: 2-s2.0-84888311418

? Pages: 163-166

? Authors: Pastorino M.; Raffetto M.; Randazzo A.

? Source Id: 21100268402

? Author Ids: 7004880389;6701772951;7006280562

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Pastorino M.

182.

? Title: An inverse scattering approach for inspecting dielectric scatterers at microwave frequencies without phase information  
? Venue: Ist 2013 2013 IEEE International Conference on Imaging Systems and Techniques Proceedings  
? Year: 2013  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Ist.2013.6729728  
? Scopus ID: 2-s2.0-84894483620  
? Pages: 392-397  
? Authors: Costanzo Sandra; Di Massa Giuseppe; Pastorino Matteo; Randazzo Andrea  
? Keywords: dielectrics | Electromagnetic imaging | inverse scattering | phase retrieval  
? Source Id: 21100286952  
? Author Ids: 14029886000;57201738411;7004880389;7006280562  
? Authoraffiliationids: 60020261;60020261;60025153;60025153  
? Corresponding: Costanzo S.

183.

? Title: Reconstruction of dielectric and velocity profiles in pipelines through an electromagnetic inverse scattering technique  
? Venue: Ist 2013 2013 IEEE International Conference on Imaging Systems and Techniques Proceedings  
? Year: 2013  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Ist.2013.6729668  
? Scopus ID: 2-s2.0-84894480955  
? Pages: 85-90  
? Authors: Pastorino Matteo; Raffetto Mirco; Randazzo Andrea  
? Keywords: Dielectric reconstruction | inverse scattering | microwaves | stochastic optimization | velocity profiling  
? Source Id: 21100286952  
? Author Ids: 7004880389;6701772951;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Pastorino M.

184.

? Title: Detection of subsurface metallic utilities by means of a SAP technique: Comparing MUSIC- and SVM-based approaches  
? Venue: Journal of Applied Geophysics  
? Year: 2013  
? Type: Journal  
? Subtype: Article  
? Citations: 27  
? DOI: 10.1016/j.jappgeo.2013.01.011  
? Scopus ID: 2-s2.0-84884418877  
? Issn: 09269851  
? Volume: 97  
? Pages: 60-68  
? Authors: Meschino Simone; Pajewski Lara; Pastorino Matteo; Randazzo Andrea; Schettini Giuseppe  
? Keywords: Buried object detection | Direction of arrival estimation | Electromagnetic

scattering | Smart antennas | Sub-array processing

? Quartile:

2025:

? Geophysics (Q2, rank 49, percentile 72)

2013:

? Geophysics (Q2, rank 40, percentile 57)

? Source Id: 28435

? Author Ids: 35230538700;12344632700;7004880389;7006280562;7102615533

? Authoraffiliationids: 60012630;60012630;60025153;60025153;60012630

? Corresponding: Meschino S.

185.

? Title: Microwave imaging of three-dimensional targets by means of an inexact-newton-based inversion algorithm

? Venue: International Journal of Antennas and Propagation

? Year: 2013

? Type: Journal

? Subtype: Article

? Citations: 15

? Doi: 10.1155/2013/407607

? Scopus ID: 2-s2.0-84884229973

? Issn: 16875869

? eISSN: 16875877

? Volume: 2013

? Authors: Estatico Claudio; Pastorino Matteo; Randazzo Andrea

? Quartile:

2025:

? Electrical and Electronic Engineering (Q2, rank 379, percentile 62)

2013:

? Electrical and Electronic Engineering (Q3, rank 361, percentile 42)

? Source Id: 19700186861

? Author Ids: 9739222400;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Estatico C.

186.

? Title: Imaging buried objects within the second-order Born approximation through a multiresolution-regularized inexact-Newton method

? Venue: 2013 International Symposium on Electromagnetic Theory Emts 2013 Proceedings

? Year: 2013

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 10

? Scopus ID: 2-s2.0-84883260718

? Pages: 116-118

? Authors: Salucci Marco; Sartori Davide; Anselmi Nicola; Randazzo Andrea; Oliveri Giacomo; Massa Andrea

? Source Id: 21100255412

? Author Ids: 54387549100;55840178500;55749784900;7006280562;6701615935;7005085831

? Authoraffiliationids: 60015986;60015986;60015986;60025153;60015986;60015986

? Corresponding: Salucci M.

187.

? Title: Electromagnetic imaging of dielectric targets by using a tomographic systems

? Venue: 2013 International Symposium on Electromagnetic Theory Emts 2013 Proceedings

? Year: 2013

? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 0  
? Scopus ID: 2-s2.0-84883241724  
? Pages: 127-130  
? Authors: Pastorino Matteo; Randazzo Andrea; Monleone Ricardo; Salvade Andrea; Poretti Samuel; Maffongelli Manuela  
? Source Id: 21100255412  
? Author Ids: 7004880389;7006280562;15623618300;15623387700;25927504500;36682904800  
? Authoraffiliationids: 60025153;60025153;60101870;60101870;60101870;60101870  
? Corresponding: Pastorino M.

188.

? Title: Buried object detection by means of a  $L^p$  Banach-space inversion procedure  
? Venue: 2013 International Symposium on Electromagnetic Theory Emits 2013 Proceedings  
? Year: 2013  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Scopus ID: 2-s2.0-84883219311  
? Pages: 131-134  
? Authors: Estatico C.; Pastorino M.; Randazzo A.  
? Source Id: 21100255412  
? Author Ids: 9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Estatico C.

189.

? Title: Phaseless imaging of dielectric scatterers-Preliminary experimental results  
? Venue: 2013 7th European Conference on Antennas and Propagation Eucap 2013  
? Year: 2013  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Scopus ID: 2-s2.0-84881305095  
? Pages: 3852-3855  
? Authors: Costanzo Sandra; Borgia Antonio; Di Massa Giuseppe; Pastorino Matteo; Randazzo Andrea  
? Keywords: dielectrics | inverse scattering | microwaves | phase retrieval  
? Source Id: 21100248815  
? Author Ids: 14029886000;25638513000;57201738411;7004880389;7006280562  
? Authoraffiliationids: 60020261;60020261;60020261;60025153;60025153  
? Corresponding: Costanzo S.

190.

? Title: Microwave imaging of elliptically shaped dielectric cylinders by means of an  $L^p$  Banach-space inversion algorithm  
? Venue: Measurement Science and Technology  
? Year: 2013  
? Type: Journal  
? Subtype: Article  
? Citations: 18  
? Doi: 10.1088/0957-0233/24/7/074017  
? Scopus ID: 2-s2.0-84879915479  
? Issn: 09570233  
? eISSN: 13616501  
? Volume: 24  
? Issue: 7

? Authors: Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.

? Quartile:

2025:

? Applied Mathematics (Q1, rank 109, percentile 83)

? Instrumentation (Q2, rank 48, percentile 74)

? Engineering (miscellaneous) (Q2, rank 81, percentile 71)

2013:

? Applied Mathematics (Q1, rank 74, percentile 81)

? Instrumentation (Q1, rank 20, percentile 79)

? Source Id: 15526

? Author Ids: 9739222400;55512997500;7004880389;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Estatico C.

191.

? Title: Microwave and millimeter-wave sensors, systems, and techniques for electromagnetic imaging and materials characterization

? Venue: International Journal of Microwave Science and Technology

? Year: 2012

? Type: Journal

? Subtype: Editorial

? Citations: 3

? Doi: 10.1155/2012/132136

? Scopus ID: 2-s2.0-84871376900

? Issn: 16875826

? eISSN: 16875834

? Authors: Randazzo Andrea; Donnell Kristen M.; Lee Yeou Song

? Quartile:

2012:

? Electrical and Electronic Engineering (Q4, rank 567, percentile 7)

? Radiation (Q4, rank 39, percentile 3)

? Condensed Matter Physics (Q4, rank 374, percentile 3)

? Source Id: 19900193584

? Author Ids: 7006280562;36550052000;8396155200

? Authoraffiliationids: 60025153;60146648;60102370

? Corresponding: Randazzo A.

192.

? Title: Imaging of dielectric targets with metallic inclusions by means of a prototype of microwave axial tomograph

? Venue: Ist 2012 2012 IEEE International Conference on Imaging Systems and Techniques Proceedings

? Year: 2012

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Ist.2012.6295493

? Scopus ID: 2-s2.0-84870699668

? Pages: 223-227

? Authors: Salvad^x A.; Monleone R.; Massimini A.; Poretti S.; Maffongelli M.; Pastorino M.; Randazzo A.

? Keywords: Imaging Systems | Inverse Problems | Microwave Sensor | Microwave Tomography | Nondestructive Testing

? Source Id: 21100222924

? Author Ids:

15623387700;15623618300;36682957200;25927504500;36682904800;7004880389;7006280562

- ? Authoraffiliationids: 60101870;60101870;60101870;60101870;60101870;60025153;60025153  
? Corresponding: Salvad<sup>✉</sup> A.  
193.  
? Title: Microwave imaging of elliptically-shaped dielectric cylinders by means of a Lp Banach-space inversion algorithm  
? Venue: Ist 2012 2012 IEEE International Conference on Imaging Systems and Techniques Proceedings  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ist.2012.6295491  
? Scopus ID: 2-s2.0-84870688522  
? Pages: 533-537  
? Authors: Estatico C.; Fedeli A.; Pastorino M.; Randazzo A.  
? Keywords: Inverse problems | Iterative algorithms | Microwave imaging | Newton method  
? Source Id: 21100222924  
? Author Ids: 9739222400;55512997500;7004880389;7006280562  
? Authoraffiliationids: 60005400;60025153;60025153;60025153  
? Corresponding: Estatico C.  
194.  
? Title: Trainingless fingerprinting-based indoor positioning algorithms with smartphones using electromagnetic propagation models  
? Venue: Ist 2012 2012 IEEE International Conference on Imaging Systems and Techniques Proceedings  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 8  
? Doi: 10.1109/Ist.2012.6295537  
? Scopus ID: 2-s2.0-84870666077  
? Pages: 190-194  
? Authors: Bisio Igor; Lavagetto Fabio; Marchese Mario; Pastorino Matteo; Randazzo Andrea  
? Keywords: Electromagnetic propagation | Smartphone terminals | WI-Fi Signals Fingerprint  
? Source Id: 21100222924  
? Author Ids: 8546192900;7004136693;7004398165;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bisio I.  
195.  
? Title: Inversion of em scattering data through a multiresolution regularization approach within the contrast source formulation  
? Venue: IEEE Antennas and Propagation Society AP S International Symposium Digest  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Aps.2012.6348672  
? Scopus ID: 2-s2.0-84870502434  
? Issn: 15223965  
? Authors: Oliveri Giacomo; Tommasi Andrea; Massa Andrea; Randazzo Andrea; Pastorino Matteo  
? Quartile:

2025:

? Electrical and Electronic Engineering (Q4, rank 853, percentile 14)

2012:

? Electrical and Electronic Engineering (Q3, rank 433, percentile 29)

? Source Id: 18719

? Author Ids: 6701615935;55511188900;7005085831;7006280562;7004880389

? Authoraffiliationids: 60015986;60015986;60015986;60025153;60025153

? Corresponding: Oliveri G.

196.

? Title: Swarm optimization methods in microwave imaging

? Venue: International Journal of Microwave Science and Technology

? Year: 2012

? Type: Journal

? Subtype: Review

? Citations: 29

? Doi: 10.1155/2012/491713

? Scopus ID: 2-s2.0-84870155957

? Issn: 16875826

? eISSN: 16875834

? Authors: Randazzo Andrea

? Quartile:

2012:

? Electrical and Electronic Engineering (Q4, rank 567, percentile 7)

? Radiation (Q4, rank 39, percentile 3)

? Condensed Matter Physics (Q4, rank 374, percentile 3)

? Source Id: 19900193584

? Author Ids: 7006280562

? Authoraffiliationids: 60025153

? Corresponding: Randazzo A.

197.

? Title: Nondestructive analysis of dielectric bodies by means of an ant colony optimization method

? Venue: Swarm Intelligence for Electric and Electronic Engineering

? Year: 2012

? Type: Book

? Subtype: Book Chapter

? Citations: 3

? DOI: 10.4018/978-1-4666-2666-9.ch015

? Scopus ID: 2-s2.0-84870169700

? Pages: 308-325

? Authors: Pastorino Matteo; Randazzo Andrea

? Source Id: 21100306288

? Author Ids: 7004880389;7006280562

? Authoraffiliationids: 60025153;60025153

? Corresponding: Pastorino M.

198.

? Title: A regularisation scheme for electromagnetic inverse problems: Application to crack detection in civil structures

? Venue: Nondestructive Testing and Evaluation

? Year: 2012

? Type: Journal

? Subtype: Article

? Citations: 15

? Doi: 10.1080/10589759.2012.665920

? Scopus ID: 2-s2.0-84864685880  
? Issn: 10589759  
? eISSN: 14772671  
? Volume: 27  
? Issue: 3  
? Pages: 189-197  
? Authors: Randazzo Andrea; Estatico Claudio  
? Keywords: electromagnetic imaging | inverse problems | regularisation | tomography  
? Quartile:  
2025:  
? Physics and Astronomy (all) (Q1, rank 60, percentile 76)  
? Mechanical Engineering (Q2, rank 216, percentile 70)  
? Mechanics of Materials (Q2, rank 145, percentile 65)  
? Materials Science (all) (Q2, rank 193, percentile 58)  
2012:  
? Mechanical Engineering (Q2, rank 163, percentile 67)  
? Mechanics of Materials (Q2, rank 118, percentile 61)  
? Materials Science (all) (Q2, rank 159, percentile 61)  
? Physics and Astronomy (all) (Q2, rank 95, percentile 50)  
? Source Id: 17870  
? Author Ids: 7006280562;9739222400  
? Authoraffiliationids: 60025153;60005400  
? Corresponding: Randazzo A.

199.  
? Title: Buried object detection by an inexact Newton method applied to nonlinear inverse scattering  
? Venue: International Journal of Microwave Science and Technology  
? Year: 2012  
? Type: Journal  
? Subtype: Article  
? Citations: 15  
? Doi: 10.1155/2012/637301  
? Scopus ID: 2-s2.0-84864934600  
? Issn: 16875826  
? eISSN: 16875834  
? Authors: Pastorino Matteo; Randazzo Andrea  
? Quartile:  
2012:  
? Electrical and Electronic Engineering (Q4, rank 567, percentile 7)  
? Radiation (Q4, rank 39, percentile 3)  
? Condensed Matter Physics (Q4, rank 374, percentile 3)  
? Source Id: 19900193584  
? Author Ids: 7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Pastorino M.

200.  
? Title: A Novel Microwave Imaging Approach Based on Regularization in  $\| \cdot \|_p$  Banach Spaces  
? Venue: IEEE Transactions on Antennas and Propagation  
? Year: 2012  
? Type: Journal  
? Subtype: Article  
? Citations: 87  
? Doi: 10.1109/TAP.2012.2196925

- ? Scopus ID: 2-s2.0-84863635742  
? Issn: 0018926x  
? Volume: 60  
? Issue: 7  
? Pages: 3373-3381  
? Authors: Estatico C.; Pastorino M.; Randazzo A.  
? Keywords: Inverse problems | iterative algorithms | microwave imaging | Newton method  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)  
2012:  
? Subject (Q1, rank 30, percentile 92)  
? Electrical and Electronic Engineering (Q1, rank 53, percentile 91)  
? Source Id: 17337  
? Author Ids: 9739222400;7004880389;7006280562  
? Authoraffiliationids: 60005400;60025153;60025153  
? Corresponding: Estatico C.
201.  
? Title: Sub-surface localization of buried cylinders by means of sub-array processing  
? Venue: Proceedings of 6th European Conference on Antennas and Propagation EuCap 2012  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.1109/EuCAP.2012.6206193  
? Scopus ID: 2-s2.0-84862863494  
? Pages: 1373-1377  
? Authors: Meschino S.; Pajewski L.; Schettini G.; Pastorino M.; Randazzo A.  
? Keywords: Buried object detection | direction of arrival estimation | sub-array processing  
? Source Id: 21100204902  
? Author Ids: 35230538700;12344632700;7102615533;7004880389;7006280562  
? Authoraffiliationids: 60012630;60012630;60012630;60025153;60025153  
? Corresponding: Meschino S.
202.  
? Title: A Banach-space regularization approach for microwave imaging  
? Venue: Proceedings of 6th European Conference on Antennas and Propagation EuCap 2012  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.1109/EuCAP.2012.6206201  
? Scopus ID: 2-s2.0-84862841147  
? Pages: 1382-1386  
? Authors: Estatico C.; Pastorino M.; Randazzo A.  
? Keywords: inverse problems | Microwave imaging | regularization  
? Source Id: 21100204902  
? Author Ids: 9739222400;7004880389;7006280562  
? Authoraffiliationids: 60005400;60025153;60025153  
? Corresponding: Estatico C.
203.  
? Title: Reconstruction of metallic inclusions inside dielectric targets by means of a microwave tomographic system  
? Venue: IEEE Microwave and Wireless Components Letters

- ? Year: 2012  
? Type: Journal  
? Subtype: Article  
? Citations: 12  
? Doi: 10.1109/Lmwc.2012.2203115  
? Scopus ID: 2-s2.0-84863785657  
? Issn: 15311309  
? Volume: 22  
? Issue: 7  
? Pages: 378-380  
? Authors: Maffongelli M.; Monleone R.; Pastorino M.; Poretti S.; Randazzo A.; Salvadò A.  
? Keywords: Microwave imaging | microwave sensors | nondestructive testing | tomography | wood industry  
? Quartile:  
2012:  
? Condensed Matter Physics (Q1, rank 33, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 54, percentile 91)  
? Source Id: 17295  
? Author Ids: 36682904800;15623618300;7004880389;25927504500;7006280562;15623387700  
? Authoraffiliationids: 60101870;60101870;60025153;60101870;60025153;60101870  
? Corresponding: Maffongelli M.
204.  
? Title: Numerical assessment of the capabilities of a microwave imaging approach for the reconstruction of dielectric targets in nondestructive evaluation applications  
? Venue: Measurement Science and Technology  
? Year: 2012  
? Type: Journal  
? Subtype: Article  
? Citations: 2  
? Doi: 10.1088/0957-0233/23/11/114008  
? Scopus ID: 2-s2.0-84868146606  
? Issn: 09570233  
? eISSN: 13616501  
? Volume: 23  
? Issue: 11  
? Authors: Pastorino M.; Randazzo A.  
? Quartile:  
2025:  
? Applied Mathematics (Q1, rank 109, percentile 83)  
? Instrumentation (Q2, rank 48, percentile 74)  
? Engineering (miscellaneous) (Q2, rank 81, percentile 71)  
2012:  
? Applied Mathematics (Q1, rank 64, percentile 83)  
? Instrumentation (Q1, rank 17, percentile 81)  
? Source Id: 15526  
? Author Ids: 7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Pastorino M.
205.  
? Title: Electromagnetic imaging within the contrast-source formulation by means of the multiscaling inexact Newton method  
? Venue: Journal of the Optical Society of America A Optics and Image Science and Vision

? Year: 2012  
? Type: Journal  
? Subtype: Article  
? Citations: 20  
? Doi: 10.1364/Josaa.29.000945  
? Scopus ID: 2-s2.0-84861864706  
? Issn: 10847529  
? eISSN: 15208532  
? Volume: 29  
? Issue: 6  
? Pages: 945-958  
? Authors: Oliveri Giacomo; Randazzo Andrea; Pastorino Matteo; Massa Andrea  
? Quartile:  
2025:  
? Computer Vision and Pattern Recognition (Q2, rank 78, percentile 54)  
? Atomic and Molecular Physics, and Optics (Q3, rank 134, percentile 43)  
? Electronic, Optical and Magnetic Materials (Q3, rank 180, percentile 41)  
2012:  
? Electronic, Optical and Magnetic Materials (Q1, rank 46, percentile 76)  
? Atomic and Molecular Physics, and Optics (Q2, rank 39, percentile 73)  
? Computer Vision and Pattern Recognition (Q2, rank 21, percentile 64)  
? Source Id: 12320  
? Author Ids: 6701615935;7006280562;7004880389;7005085831  
? Authoraffiliationids: 60015986;60025153;60025153;60015986  
? Corresponding: Oliveri G.  
206.  
? Title: Impact of background noise on dielectric reconstructions obtained by a prototype of microwave axial tomograph  
? Venue: IEEE Transactions on Instrumentation and Measurement  
? Year: 2012  
? Type: Journal  
? Subtype: Article  
? Citations: 28  
? Doi: 10.1109/Tim.2011.2159144  
? Scopus ID: 2-s2.0-83655163893  
? Issn: 00189456  
? Volume: 61  
? Issue: 1  
? Pages: 140-148  
? Authors: Monleone Ricardo D.; Pastorino Matteo; Fortuny-Guasch Joaquim; Salvad<sup>or</sup> Andrea; Bartesaghi Thomas; Bozza Giovanni; Maffongelli Manuela; Massimini Andrea; Carbonetti Andrea; Randazzo Andrea  
? Keywords: Electromagnetic Interference | imaging systems | inverse problems | microwave sensor | microwave tomography | nondestructive testing  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 16, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 119, percentile 88)  
2012:  
? Instrumentation (Q1, rank 9, percentile 90)  
? Electrical and Electronic Engineering (Q1, rank 94, percentile 84)  
? Source Id: 15361  
? Author Ids: 15623618300;7004880389;6603372832;15623387700;22033467000;9740507100;36682957200;54782273000;7006280562

- ? Authoraffiliationids: 60101870;60025153;60103695;60101870;60101870;60025153;60101870;  
60101870;60101870;60025153  
? Corresponding: Monleone R.
- 207.
- ? Title: Electromagnetic inversion with the multiscaling inexact Newton method-experimental validation
- ? Venue: Microwave and Optical Technology Letters
- ? Year: 2011
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 24
- ? DOI: 10.1002/mop.26435
- ? Scopus ID: 2-s2.0-80053192974
- ? Issn: 08952477
- ? eISSN: 10982760
- ? Volume: 53
- ? Issue: 12
- ? Pages: 2834-2838
- ? Authors: Randazzo Andrea; Oliveri Giacomo; Massa Andrea; Pastorino Matteo
- ? Keywords: experimental results | inexact-Newton method | inverse scattering | iterative multiscaling approach | tomographic imaging
- ? Quartile:
- 2025:
- ? Electrical and Electronic Engineering (Q3, rank 542, percentile 45)
- ? Electronic, Optical and Magnetic Materials (Q3, rank 199, percentile 35)
- ? Atomic and Molecular Physics, and Optics (Q3, rank 156, percentile 34)
- ? Condensed Matter Physics (Q3, rank 296, percentile 33)
- 2011:
- ? Electrical and Electronic Engineering (Q2, rank 243, percentile 58)
- ? Condensed Matter Physics (Q3, rank 196, percentile 48)
- ? Electronic, Optical and Magnetic Materials (Q3, rank 98, percentile 46)
- ? Atomic and Molecular Physics, and Optics (Q3, rank 77, percentile 45)
- ? Source Id: 12250
- ? Author Ids: 7006280562;6701615935;7005085831;7004880389
- ? Authoraffiliationids: 60025153;60015986;60015986;60025153
- ? Corresponding: Randazzo A.
- 208.
- ? Title: CSI-CFI formulations of the multiresolution Inexact Newton method - A numerical comparison
- ? Venue: 2011 30th Ursi General Assembly and Scientific Symposium Ursigass 2011
- ? Year: 2011
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 0
- ? Doi: 10.1109/Ursigass.2011.6050369
- ? Scopus ID: 2-s2.0-81255166836
- ? Authors: Oliveri Giacomo; Randazzo Andrea; Pastorino Matteo; Massa Andrea
- ? Source Id: 20500195093
- ? Author Ids: 6701615935;7006280562;7004880389;7005085831
- ? Authoraffiliationids: 60015986;60025153;60025153;60015986
- ? Corresponding: Oliveri G.
- 209.
- ? Title: Assessment of the electromagnetic inversion with the multiscaling Inexact-Newton method

? Venue: IEEE Antennas and Propagation Society AP S International Symposium Digest  
? Year: 2011  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Aps.2011.5997042  
? Scopus ID: 2-s2.0-80055011610  
? Issn: 15223965  
? Pages: 2541-2544  
? Authors: Oliveri Giacomo; Massa Andrea; Randazzo Andrea; Pastorino Matteo  
? Keywords: Electromagnetic inverse scattering | Inexact Newton Method | Iterative Multiscaling Approach | Microwave Imaging  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q4, rank 853, percentile 14)  
2011:  
? Electrical and Electronic Engineering (Q3, rank 407, percentile 30)  
? Source Id: 18719  
? Author Ids: 6701615935;7005085831;7006280562;7004880389  
? Authoraffiliationids: 60015986;60015986;60025153;60025153  
? Corresponding: Oliveri G.

210.  
? Title: A multistatic tomographic approach to microwave imaging of dielectric targets  
? Venue: Proceedings of the 5th European Conference on Antennas and Propagation Eucap 2011  
? Year: 2011  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Scopus ID: 2-s2.0-79959681192  
? Pages: 2790-2794  
? Authors: Randazzo A.; Pastorino M.; Salvadò A.; Monleone R.; Maffongelli M.; Lanini M.  
? Source Id: 19900192144  
? Author Ids: 7006280562;7004880389;15623387700;15623618300;36682904800;41761929500  
? Authoraffiliationids: 60025153;60025153;60101870;60101870;60101870;60101870  
? Corresponding: Randazzo A.

211.  
? Title: Microwave axial tomograph for medical applications: Preliminary set-up configuration  
? Venue: Memea 2011 2011 IEEE International Symposium on Medical Measurements and Applications Proceedings  
? Year: 2011  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? DOI: 10.1109/MeMeA.2011.5966680  
? Scopus ID: 2-s2.0-80052389695  
? Pages: 176-181  
? Authors: Maffongelli Manuela; Salvade Andrea; Monleone Ricardo D.; Poretti Samuel; Pastorino Matteo; Randazzo Andrea  
? Keywords: Biomedical imaging | Electromagnetic scattering | Imaging Systems | Inverse Problems | Microwave  
? Source Id: 19900193848

? Author Ids: 36682904800;15623387700;15623618300;25927504500;7004880389;7006280562  
? Authoraffiliationids: 60101870;60101870;60101870;60101870;60025153;60025153  
? Corresponding: Maffongelli M.

212.

? Title: Imaging of separate scatterers by means of a multiscaling multiregion Inexact-Newton approach  
? Venue: Progress in Electromagnetics Research M  
? Year: 2011  
? Type: Journal  
? Subtype: Article  
? Citations: 8  
? Doi: 10.2528/PierM11051404  
? Scopus ID: 2-s2.0-79959871596  
? Issn: 19378726  
? eISSN: 10988963  
? Volume: 18  
? Pages: 247-257  
? Authors: Oliveri G.; Randazzo A.; Pastorino M.; Massa Andrea  
? Quartile:  
2025:  
? Electronic, Optical and Magnetic Materials (Q3, rank 184, percentile 40)  
? Condensed Matter Physics (Q3, rank 277, percentile 38)  
2011:  
? Condensed Matter Physics (Q3, rank 205, percentile 46)  
? Electronic, Optical and Magnetic Materials (Q3, rank 102, percentile 44)  
? Source Id: 19700186909  
? Author Ids: 6701615935;7006280562;7004880389;7005085831  
? Authoraffiliationids: 60015986;60025153;60025153;60015986  
? Corresponding: Oliveri G.

213.

? Title: A differential evolution-based iterative multi-scaling algorithm for microwave imaging of dielectric structures  
? Venue: 2010 IEEE International Conference on Imaging Systems and Techniques Ist 2010 Proceedings  
? Year: 2010  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.1109/Ist.2010.5548515  
? Scopus ID: 2-s2.0-77957854022  
? Pages: 90-95  
? Authors: Donelli M.; Massa A.; Oliveri G.; Pastorino M.; Randazzo A.  
? Keywords: Differential evolution | Inverse scattering | Microwave imaging  
? Source Id: 19700181227  
? Author Ids: 7006135869;7005085831;6701615935;7004880389;7006280562  
? Authoraffiliationids: 60015986;60015986;60015986;60025153;60025153  
? Corresponding: Donelli M.

214.

? Title: Crack detection in dielectric structures by a linear sampling approach  
? Venue: International Journal of Signal and Imaging Systems Engineering  
? Year: 2010  
? Type: Journal  
? Subtype: Article  
? Citations: 1

? Doi: 10.1504/Ijsise.2010.034996

? Scopus ID: 2-s2.0-77956257544

? Issn: 17480698

? eISSN: 17480701

? Volume: 3

? Issue: 2

? Pages: 73-80

? Authors: Bozza G.; Brignone M.; Pastorino M.; Piana M.; Randazzo A.

? Keywords: Crack detection | Imaging systems | Inverse scattering | Linear sampling method | Non-destructive testing

? Quartile:

2025:

? Control and Systems Engineering (Q2, rank 155, percentile 59)

? Electrical and Electronic Engineering (Q2, rank 409, percentile 59)

? Source Id: 19500157222

? Author Ids: 9740507100;8580886100;7004880389;35557405100;7006280562

? Authoraffiliationids:

60025153;60025153-106394475;60025153;106394475-60032256;60025153

? Corresponding: Bozza G.

215.

? Title: A fast and efficient microwave method for detecting dielectric and conducting bodies inside complex structures

? Venue: European Microwave Week 2009 Eumw 2009 Science Progress and Quality at Radiofrequencies Conference Proceedings 39th European Microwave Conference Eumc 2009

? Year: 2009

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Eumc.2009.5296252

? Scopus ID: 2-s2.0-72949090619

? Pages: 1618-1621

? Authors: Bozza G.; Brignone M.; Piana M.; Pastorino M.; Randazzo A.

? Source Id: 19500157491

? Author Ids: 9740507100;8580886100;35557405100;7004880389;7006280562

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

? Corresponding: Bozza G.

216.

? Title: An inverse scattering based hybrid method for the measurement of the complex dielectric permittivities of arbitrarily shaped homogenous targets

? Venue: 2009 IEEE Instrumentation and Measurement Technology Conference I2mtc 2009

? Year: 2009

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5

? Doi: 10.1109/Imtc.2009.5168544

? Scopus ID: 2-s2.0-70450105873

? Pages: 719-723

? Authors: Bozza Giovanni; Brignone Massimo; Pastorino Matteo; Piana Michele; Randazzov Andrea

? Source Id: 19400158531

? Author Ids: 9740507100;8580886100;7004880389;35557405100;7006280562

? Authoraffiliationids: 60025153;60032256;60025153;60083086;60025153

? Corresponding: Bozza G.

217.

? Title: Integration of linear sampling and newton-like schemes in inverse scattering  
? Venue: IEEE Antennas and Propagation Society AP S International Symposium Digest  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Aps.2009.5171684  
? Scopus ID: 2-s2.0-71049193435  
? Issn: 15223965  
? Authors: Bozza G.; Brignone M.; Pastorino M.; Piana M.; Randazzo A.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q4, rank 853, percentile 14)  
? Source Id: 18719  
? Author Ids: 9740507100;8580886100;7004880389;35557405100;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60032256;60025153  
? Corresponding: Bozza G.

218.  
? Title: Microwave detection of unknown targets by using support vector machines  
? Venue: 2009 IEEE International Workshop on Imaging Systems and Techniques Ist 2009 Proceedings  
? Year: 2009  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Ist.2009.5071620  
? Scopus ID: 2-s2.0-70349656983  
? Pages: 141-146  
? Authors: Randazzo Andrea; Pastorino Matteo  
? Keywords: Component | Microwave imaging | Regression | Support vector machine  
? Source Id: 19300157114  
? Author Ids: 7006280562;7004880389  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Randazzo A.

219.  
? Title: A new microwave axial tomograph for the inspection of dielectric materials  
? Venue: IEEE Transactions on Instrumentation and Measurement  
? Year: 2009  
? Type: Journal  
? Subtype: Article  
? Citations: 31  
? Doi: 10.1109/Tim.2009.2015521  
? Scopus ID: 2-s2.0-67649621679  
? Issn: 00189456  
? Volume: 58  
? Issue: 7  
? Pages: 2072-2079  
? Authors: Salvade Andrea; Pastorino Mateo; Monleone Ricardo; Bozza Giovanni; Randazzo Andrea  
? Keywords: Imaging systems | Inverse problems | Microwave tomography | Nondestructive testing | Radar  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 16, percentile 91)

- ? Electrical and Electronic Engineering (Q1, rank 119, percentile 88)  
? Source Id: 15361  
? Author Ids: 15623387700;7004880389;15623618300;9740507100;7006280562  
? Authoraffiliationids: 60101870;60025153;60101870;60025153;60025153  
? Corresponding: Salvade A.
220.  
? Title: Enhanced nonlinear inverse scattering through linear super-resolution techniques  
? Venue: Ist 2008 IEEE Workshop on Imaging Systems and Techniques Proceedings  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ist.2008.4659974  
? Scopus ID: 2-s2.0-57849154868  
? Pages: 227-231  
? Authors: Bozza Giovanni; Estatico Claudio; Nagy James G.; Pastorino Matteo; Randazzo Andrea  
? Source Id: 14000156210  
? Author Ids: 9740507100;9739222400;7202084277;7004880389;7006280562  
? Authoraffiliationids: 60025153;60032259;60000928;60025153;60025153  
? Corresponding: Bozza G.
221.  
? Title: A linear sampling approach to crack detection in microwave imaging  
? Venue: Ist 2008 IEEE Workshop on Imaging Systems and Techniques Proceedings  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 17  
? Doi: 10.1109/Ist.2008.4659973  
? Scopus ID: 2-s2.0-57849153473  
? Pages: 222-226  
? Authors: Bozza Giovanni; Brignone Massimo; Pastorino Matteo; Piana Michele; Randazzo Andrea  
? Source Id: 14000156210  
? Author Ids: 9740507100;8580886100;7004880389;35557405100;7006280562  
? Authoraffiliationids: 60025153;60032256;60025153;60032256;60025153  
? Corresponding: Bozza G.
222.  
? Title: Microwave imaging of foreign bodies inside wood trunks  
? Venue: Ist 2008 IEEE Workshop on Imaging Systems and Techniques Proceedings  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 12  
? Doi: 10.1109/Ist.2008.4659947  
? Scopus ID: 2-s2.0-57849138920  
? Pages: 88-93  
? Authors: Salvad`a A.; Pastorino M.; Monleone R.; Randazzo A.; Bartesaghi T.; Bozza G.; Poretti S.  
? Keywords: Imaging systems | Inverse problems | Microwave tomography | Non-destructive testing | Reconstruction procedures  
? Source Id: 14000156210  
? Author Ids:

15623387700;7004880389;15623618300;7006280562;22033467000;9740507100;25927504500

? Authoraffiliationids: 60101870;60025153;60101870;60025153;60101870;60025153;60101870

? Corresponding: Salvad<sup>o</sup> A.

223.

? Title: Hybrid approach to the inverse scattering problem by using ant colony optimization and no-sampling linear sampling

? Venue: 2008 IEEE International Symposium on Antennas and Propagation and Usnc Ursi National Radio Science Meeting Apsursi

? Year: 2008

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5

? Doi: 10.1109/Aps.2008.4619941

? Scopus ID: 2-s2.0-55649103006

? Authors: Brignone M.; Bozza G.; Randazzo A.; Aramini R.; Piana M.; Pastorino M.

? Source Id: 12600154756

? Author Ids: 8580886100;9740507100;7006280562;15759187700;35557405100;7004880389

? Authoraffiliationids: 60025153;60025153;60025153;60015986;60032256;60025153

? Corresponding: Brignone M.

224.

? Title: A hybrid approach to 3D microwave imaging by using linear sampling and ACO

? Venue: IEEE Transactions on Antennas and Propagation

? Year: 2008

? Type: Journal

? Subtype: Article

? Citations: 61

? Doi: 10.1109/Tap.2008.929504

? Scopus ID: 2-s2.0-54249088049

? Issn: 0018926x

? Volume: 56

? Issue: 10

? Pages: 3224-3232

? Authors: Brignone Massimo; Bozza Giovanni; Randazzo Andrea; Piana Michele; Pastorino Matteo

? Keywords: Ant colony optimization (ACO) | Inverse scattering | Linear sampling method (LSM) | Stochastic methods

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)

? Source Id: 17337

? Author Ids: 8580886100;9740507100;7006280562;35557405100;7004880389

? Authoraffiliationids: 60032256-60025153;60025153;60025153;60032256-60025153;60025153

? Corresponding: Brignone M.

225.

? Title: The differential evolution algorithm as applied to array antennas and imaging

? Venue: Studies in Computational Intelligence

? Year: 2008

? Type: Book Series

? Subtype: Review

? Citations: 3

? Doi: 10.1007/978-3-540-68830-3\_9

? Scopus ID: 2-s2.0-51649097683

? Issn: 1860949x

? Volume: 143

- ? Pages: 239-255  
? Authors: Massa Andrea; Pastorino M.; Randazzo A.  
? Quartile:  
2025:  
? Artificial Intelligence (Q3, rank 308, percentile 37)  
? Source Id: 4900152708  
? Author Ids: 7005085831;7004880389;7006280562  
? Authoraffiliationids: 60015986;60025153;60025153  
? Corresponding: Massa A.
226.  
? Title: Microwave detection of dielectric structures by using a tomographic approach  
? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference  
? Year: 2008  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Imtc.2008.4547243  
? Scopus ID: 2-s2.0-51349154773  
? Issn: 10915281  
? Pages: 1300-1305  
? Authors: Salvadò A.; Pastorino M.; Monleone R.; Bartesaghi T.; Bozza G.; Randazzo A.  
? Keywords: Imaging systems | Inverse problems | Microwave sensor | Microwave tomography | Nondestructive testing | Radar | Reconstruction procedures  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)  
? Source Id: 15045  
? Author Ids: 15623387700;7004880389;15623618300;22033467000;9740507100;7006280562  
? Authoraffiliationids: 60101870;60025153;60101870;60101870;60025153;60025153  
? Corresponding: Salvadò A.
227.  
? Title: Direction of arrival estimation based on support vector regression: Experimental validation and comparison with MUSIC  
? Venue: IEEE Antennas and Wireless Propagation Letters  
? Year: 2007  
? Type: Journal  
? Subtype: Article  
? Citations: 100  
? Doi: 10.1109/Lawp.2007.903491  
? Scopus ID: 2-s2.0-68949202035  
? Issn: 15361225  
? Volume: 6  
? Pages: 379-382  
? Authors: Randazzo A.; Abou-Khousa M. A.; Pastorino M.; Zoughi R.  
? Keywords: Directions of arrival (doas) | Support vector machines (svms)/regression | Uniform linear array (ula)  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 180, percentile 82)  
? Source Id: 18894  
? Author Ids: 7006280562;14048137900;7004880389;57207607521  
? Authoraffiliationids: 60025153-60146648;60025153-60146648;60025153-60146648;60025153-60146648  
? Corresponding: Randazzo A.

228.

? Title: Short-range image-based method for the inspection of strong scatterers using microwaves  
? Venue: IEEE Transactions on Instrumentation and Measurement  
? Year: 2007  
? Type: Journal  
? Subtype: Article  
? Citations: 36  
? Doi: 10.1109/TIM.2007.900127  
? Scopus ID: 2-s2.0-34547874571  
? Issn: 00189456  
? Volume: 56  
? Issue: 4  
? Pages: 1181-1188  
? Authors: Bozza Giovanni; Estatico Claudio; Massa Andrea; Pastorino Matteo; Randazzo Andrea  
? Keywords: Imaging systems | Inverse problems | Inverse scattering | Microwave imaging | Newton methods  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 16, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 119, percentile 88)  
? Source Id: 15361  
? Author Ids: 9740507100;9739222400;7005085831;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60015986;60025153;60025153  
? Corresponding: Bozza G.

229.

? Title: Microwave imaging for nondestructive testing of dielectric structures: Numerical simulations using an inexact Newton technique  
? Venue: Materials Evaluation  
? Year: 2007  
? Type: Trade Journal  
? Subtype: Article  
? Citations: 18  
? Scopus ID: 2-s2.0-38749097822  
? Issn: 00255327  
? Volume: 65  
? Issue: 9  
? Pages: 917-922  
? Authors: Bozza G.; Estatico C.; Pastorino M.; Randazzo A.  
? Keywords: Inexact Newton technique | Inverse scattering | Microwave imaging | Nondestructive testing | Regularizing schemes  
? Quartile:  
2025:  
? Mechanical Engineering (Q4, rank 618, percentile 16)  
? Mechanics of Materials (Q4, rank 367, percentile 11)  
? Materials Science (all) (Q4, rank 415, percentile 11)  
? Source Id: 17801  
? Author Ids: 9740507100;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Bozza G.

230.

? Title: A blade coating inspection method based on an electromagnetic inverse scattering approach

? Venue: Proceedings of the 2007 IEEE International Workshop on Imaging Systems and Techniques Ist 07  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? DOI: 10.1109/ist.2007.379582  
? Scopus ID: 2-s2.0-34748917176  
? Authors: Randazzo A.; Pignone E.  
? Keywords: Blade coatings | Eddy current | Electromagnetic scattering | Thickness evaluation  
? Source Id: 21100990202  
? Author Ids: 7006280562;8241707600  
? Authoraffiliationids: 60025153;60073836  
? Corresponding: Randazzo A.

231.

? Title: Electromagnetic imaging for non-intrusive evaluation in civil engineering  
? Venue: Proceedings of the 2007 IEEE International Workshop on Imaging Systems and Techniques Ist 07  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? DOI: 10.1109/ist.2007.379581  
? Scopus ID: 2-s2.0-34748913160  
? Authors: Bozza G.; Estatico C.; Pastorino M.; Randazzo A.  
? Keywords: Civil engineering | Electromagnetic imaging | Inverse scattering | Newton methods | Nondestructive testing  
? Source Id: 7900153128  
? Author Ids: 9740507100;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60032259;60025153;60025153  
? Corresponding: Bozza G.

232.

? Title: A numerical evaluation of an optimal setup for a microwave axial tomograph aimed at the inspection of wood  
? Venue: Proceedings of the 2007 IEEE International Workshop on Imaging Systems and Techniques Ist 07  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? DOI: 10.1109/ist.2007.379588  
? Scopus ID: 2-s2.0-34748883226  
? Authors: Salvadò Andrea; Pastorino Matteo; Monleone Ricardo; Randazzo Andrea; Bartesaghi Thomas; Bozza Giovanni  
? Keywords: Electromagnetic field simulation | Imaging systems | Microwave sensor | Microwave tomography | Nondestructive testing inverse problems | Radar | Reconstruction procedures | Scattering  
? Source Id: 21100984531  
? Author Ids: 15623387700;7004880389;15623618300;7006280562;22033467000;9740507100  
? Authoraffiliationids: 60101870;60025153;60101870;60025153;60101870;60025153  
? Corresponding: Salvadò A.

233.

? Title: Detection of defects in wood slabs by using a microwave imaging technique

? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 25  
? DOI: 10.1109/imtc.2007.379332  
? Scopus ID: 2-s2.0-34648831081  
? Issn: 10915281  
? Authors: Pastorino M.; Salvad` A.; Monleone R.; Bartesaghi T.; Bozza G.; Randazzo A.  
? Keywords: Imaging systems | Inverse problems | Microwave sensor | Microwave tomography | Nondestructive testing | Radar | Reconstruction procedures  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)  
? Source Id: 15045  
? Author Ids: 7004880389;15623387700;15623618300;22033467000;9740507100;7006280562  
? Authoraffiliationids: 60025153;60101870;60101870;60101870;60025153;60025153  
? Corresponding: Pastorino M.

234.

? Title: A numerical assessment of the semiconvergence behavior in an inverse-scattering approach to electromagnetic imaging  
? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference  
? Year: 2007  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? DOI: 10.1109/imtc.2007.379277  
? Scopus ID: 2-s2.0-34648813258  
? Issn: 10915281  
? Authors: Bozza G.; Estatico C.; Pastorino M.; Randazzo A.  
? Keywords: Ill-posed problems | Imaging systems | Inexact newton methods | Inverse problems | Inverse scattering | Regularization techniques  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)  
? Source Id: 15045  
? Author Ids: 9740507100;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60032259;60025153;60025153  
? Corresponding: Bozza G.

235.

? Title: Application of an inexact-Newton method within the second-order Born approximation to buried objects  
? Venue: IEEE Geoscience and Remote Sensing Letters  
? Year: 2007  
? Type: Journal  
? Subtype: Article  
? Citations: 43  
? Doi: 10.1109/Lgrs.2006.885864  
? Scopus ID: 2-s2.0-33846597139  
? Issn: 1545598x  
? Volume: 4  
? Issue: 1  
? Pages: 51-55  
? Authors: Bozza Giovanni; Estatico Claudio; Pastorino Matteo; Randazzo Andrea

? Keywords: Buried objects | Inverse scattering | Iterative regularization | Newton method

? Quartile:

2025:

? Geotechnical Engineering and Engineering Geology (Q1, rank 22, percentile 91)

? Electrical and Electronic Engineering (Q1, rank 90, percentile 91)

? Source Id: 17259

? Author Ids: 9740507100;9739222400;7004880389;7006280562

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

? Corresponding: Bozza G.

236.

? Title: Synthesis of metamaterial coatings for cylindrical structures by an ant-colony optimization algorithm

? Venue: Ist 2006 Proceedings of the 2006 IEEE International Workshop on Imaging Systems and Techniques

? Year: 2006

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Ist.2006.1650792

? Scopus ID: 2-s2.0-33845598481

? Volume: 2006

? Pages: 143-147

? Authors: Bozza G.; Pastorino M.; Raffetto M.; Randazzo A.

? Keywords: Ant colony optimization | Metamaterials | Synthesis

? Source Id: 5100153514

? Author Ids: 9740507100;7004880389;6701772951;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Bozza G.

237.

? Title: A new microwave axial tomograph for the inspection of dielectric materials

? Venue: Ist 2006 Proceedings of the 2006 IEEE International Workshop on Imaging Systems and Techniques

? Year: 2006

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Ist.2006.1650793

? Scopus ID: 2-s2.0-33845589277

? Volume: 2006

? Pages: 148-153

? Authors: Salvadò Andrea; Pastorino Matteo; Monleone Ricardo; Randazzo Andrea

? Keywords: Imaging systems | Inverse problems | Microwave tomography | Nondestructive testing | Radar

? Source Id: 5100153514

? Author Ids: 15623387700;7004880389;15623618300;7006280562

? Authoraffiliationids: 60101870;60025153;60101870;60025153

? Corresponding: Salvadò A.

238.

? Title: An inexact-newton algorithm for tomographic microwave imaging

? Venue: Ist 2006 Proceedings of the 2006 IEEE International Workshop on Imaging Systems and Techniques

? Year: 2006

? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Ist.2006.1650791  
? Scopus ID: 2-s2.0-33845562281  
? Volume: 2006  
? Pages: 137-142  
? Authors: Bozza G.; Estatico C.; Massa A.; Pastorino M.; Randazzo A.  
? Keywords: Imaging | Inverse scattering | Newton method | Regularization  
? Source Id: 5100153514  
? Author Ids: 9740507100;9739222400;7005085831;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60015986;60025153;60025153  
? Corresponding: Bozza G.

239.

? Title: Optimization of the directivity of a monopulse antenna with a subarray weighting by a hybrid differential evolution method  
? Venue: IEEE Antennas and Wireless Propagation Letters  
? Year: 2006  
? Type: Journal  
? Subtype: Article  
? Citations: 68  
? Doi: 10.1109/Lawp.2006.872435  
? Scopus ID: 2-s2.0-47249144421  
? Issn: 15361225  
? Volume: 5  
? Issue: 1  
? Pages: 155-158  
? Authors: Massa Andrea; Pastorino Matteo; Randazzo Andrea  
? Keywords: Array antennas | Evolutionary algorithm | Monopulse antennas | Sum and difference patterns  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 180, percentile 82)  
? Source Id: 18894  
? Author Ids: 7005085831;7004880389;7006280562  
? Authoraffiliationids: 60015986;60025153;60025153  
? Corresponding: Massa A.

240.

? Title: Short-range microwave imaging technique based on an inexact-Newton method for the nondestructive inspection of dielectric objects  
? Venue: IMS 2006 Proceedings of the 2006 IEEE International Workshop on Measurement Systems for Homeland Security Contraband Detection and Personal Safety  
? Year: 2006  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Mshs.2006.314345  
? Scopus ID: 2-s2.0-46249095152  
? Pages: 26-31  
? Authors: Bozza Giovanni; Pastorino Matteo; Randazzo Andrea  
? Keywords: Electromagnetic diagnostics | Inexact Newton methods | Inverse scattering | Microwave imaging  
? Source Id: 11800154530  
? Author Ids: 9740507100;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153

- ? Corresponding: Bozza G.  
241.  
? Title: Short-range image-based method for the inspection of strong scatterers using microwaves  
? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference  
? Year: 2006  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Imtc.2006.236934  
? Scopus ID: 2-s2.0-36049047668  
? Issn: 10915281  
? Pages: 397-402  
? Authors: Bozza G.; Estatico C.; Massa A.; Pastorino M.; Randazzo A.  
? Keywords: Imaging systems | Inverse problems | Inverse scattering | Microwave imaging | Newton methods  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)  
? Source Id: 15045  
? Author Ids: 9740507100;9739222400;7005085831;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60015986;60025153;60025153  
? Corresponding: Bozza G.  
242.  
? Title: An inexact Newton method for microwave reconstruction of strong scatterers  
? Venue: IEEE Antennas and Wireless Propagation Letters  
? Year: 2006  
? Type: Journal  
? Subtype: Article  
? Citations: 63  
? Doi: 10.1109/Lawp.2006.870360  
? Scopus ID: 2-s2.0-34547860148  
? Issn: 15361225  
? Volume: 5  
? Issue: 1  
? Pages: 61-64  
? Authors: Bozza G.; Estatico C.; Pastorino M.; Randazzo A.  
? Keywords: Experimental data | Inexact newton methods | Inverse scattering | Microwave imaging | Regularization  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 180, percentile 82)  
? Source Id: 18894  
? Author Ids: 9740507100;9739222400;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Bozza G.  
243.  
? Title: The SVM-based smart antenna for estimation of the directions of arrival of electromagnetic waves  
? Venue: IEEE Transactions on Instrumentation and Measurement  
? Year: 2006  
? Type: Journal  
? Subtype: Article  
? Citations: 31

? Doi: 10.1109/Tim.2006.884295  
? Scopus ID: 2-s2.0-33947328374  
? Issn: 00189456  
? Volume: 55  
? Issue: 6  
? Pages: 1918-1925

? Authors: Pastorino Matteo; Randazzo Andrea  
? Keywords: Array antennas | Direction of arrival estimation | Multiple antennas | Regression | Support vector machines (SVMs)

? Quartile:

2025:

? Instrumentation (Q1, rank 16, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 119, percentile 88)

? Source Id: 15361

? Author Ids: 7004880389;7006280562

? Authoraffiliationids: 60000251-60025153;60000251-60025153

? Corresponding: Pastorino M.

244.

? Title: A microwave axial tomograph: Experimental set up and reconstruction procedure  
? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference

? Year: 2006

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 7

? Doi: 10.1109/Imtc.2006.236933

? Scopus ID: 2-s2.0-33845570089

? Issn: 10915281

? Pages: 392-396

? Authors: Pastorino Matteo; Salvad`a Andrea; Monleone Ricardo; Randazzo Andrea

? Keywords: Imaging systems | Inverse problems | Microwave sensor | Microwave tomography | Nondestructive testing | Radar | Reconstruction procedures

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)

? Source Id: 15045

? Author Ids: 7004880389;15623387700;15623618300;7006280562

? Authoraffiliationids: 60025153;60101870;60101870;60025153

? Corresponding: Pastorino M.

245.

? Title: New results on electromagnetic imaging based on the inversion of synthetic and measured scattered-field data

? Venue: IEEE Transactions on Instrumentation and Measurement

? Year: 2006

? Type: Journal

? Subtype: Article

? Citations: 4

? Doi: 10.1109/Tim.2006.876576

? Scopus ID: 2-s2.0-33746342133

? Issn: 00189456

? Volume: 55

? Issue: 4

? Pages: 1085-1093

? Authors: Azaro Renzo; Bozza Giovanni; Estatico Claudio; Massa Andrea; Pastorino Matteo; Pernigato Denis; Randazzo Andrea

? Keywords: Electromagnetic scattering | Imaging systems | Inverse problems | Microwaves  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 16, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 119, percentile 88)  
? Source Id: 15361  
? Author Ids:  
8662846400;9740507100;9739222400;7005085831;7004880389;15924046500;7006280562  
? Authoraffiliationids: 101241495;60025153;60025153;60015986;60025153;60015986;60025153  
? Corresponding: Azaro R.

246.  
? Title: A regularization approach to microwave imaging under the second-order born approximation with real data  
? Venue: Ist 2005 Proceedings of the 2005 IEEE International Workshop on Imaging Systems and Techniques  
? Year: 2005  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 11  
? Scopus ID: 2-s2.0-33847226954  
? Volume: 2005  
? Pages: 14-19  
? Authors: Bozza G.; Estatico C.; Massa A.; Pastorino M.; Randazzo A.  
? Source Id: 5200153047  
? Author Ids: 9740507100;9739222400;7005085831;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60015986;60025153;60025153  
? Corresponding: Bozza G.

247.  
? Title: Estimation of the DOA of reflected signals by means of smart antennas  
? Venue: Ist 2005 Proceedings of the 2005 IEEE International Workshop on Imaging Systems and Techniques  
? Year: 2005  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Scopus ID: 2-s2.0-33847188121  
? Volume: 2005  
? Pages: 2-7  
? Authors: Pastorino M.; Randazzo A.; Stanchi P.  
? Source Id: 5200153047  
? Author Ids: 7004880389;7006280562;15623423400  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Pastorino M.

248.  
? Title: A smart antenna for the DOA estimation of impinging signals and passive obstacle detection for homeland security  
? Venue: IMS 2005 Proceedings of the 2005 IEEE International Workshop on Measurement Systems for Homeland Security Contraband Detection and Personal Safety  
? Year: 2005  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/Mshs.2005.1502558

? Scopus ID: 2-s2.0-33745508354  
? Volume: 2005  
? Pages: 70-76  
? Authors: Pastorino Matteo; Randazzo Andrea  
? Keywords: Electromagnetic Sources | Homeland Security | Intelligent Systems | Passive Scatterers | Smart Antennas  
? Source Id: 4700152231  
? Author Ids: 7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Pastorino M.

249.

? Title: Interactions between electromagnetic waves and elliptically shaped metamaterials  
? Venue: IEEE Antennas and Wireless Propagation Letters  
? Year: 2005  
? Type: Journal  
? Subtype: Article  
? Citations: 9  
? Doi: 10.1109/Lawp.2005.848382  
? Scopus ID: 2-s2.0-31144437167  
? Issn: 15361225  
? Volume: 4  
? Issue: 1  
? Pages: 165-168  
? Authors: Pastorino Matteo; Raffetto Mirco; Randazzo Andrea  
? Keywords: Double-negative materials | Electromagnetic scattering | Elliptic cylinders | Metamaterials | Series solution  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 180, percentile 82)  
? Source Id: 18894  
? Author Ids: 7004880389;6701772951;7006280562  
? Authoraffiliationids: 60000251-60025153;60025153;60025153  
? Corresponding: Pastorino M.

250.

? Title: New results on electromagnetic imaging based on the inversion of measured scattered-field data  
? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference  
? Year: 2005  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 8  
? Scopus ID: 2-s2.0-28544442756  
? Issn: 10915281  
? Volume: 3  
? Pages: 2048-2053  
? Authors: Azaro R.; Bozza G.; Estatico C.; Massa A.; Pastorino M.; Pregnolato D.; Randazzo A.  
? Keywords: Electromagnetic scattering | Imaging systems | Inverse problems | Microwaves  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)  
? Source Id: 15045

- ? Author Ids: 8662846400;9740507100;9739222400;7005085831;7004880389;15924046500;7006280562  
? Authoraffiliationids: ;60025153;60025153;60015986;60025153;60015986;60025153  
? Corresponding: Azaro R.
251.  
? Title: A two-step iterative inexact-Newton method for electromagnetic imaging of dielectric structures from real data  
? Venue: Inverse Problems  
? Year: 2005  
? Type: Journal  
? Subtype: Article  
? Citations: 49  
? Doi: 10.1088/0266-5611/21/6/S07  
? Scopus ID: 2-s2.0-28544439972  
? Issn: 02665611  
? eISSN: 13616420  
? Volume: 21  
? Issue: 6  
? Pages: S81-S94  
? Authors: Estatico C.; Bozza G.; Massa A.; Pastorino M.; Randazzo A.  
? Quartile:  
2025:  
? Mathematical Physics (Q1, rank 21, percentile 77)  
? Applied Mathematics (Q2, rank 200, percentile 70)  
? Theoretical Computer Science (Q2, rank 58, percentile 57)  
? Signal Processing (Q2, rank 83, percentile 57)  
? Computer Science Applications (Q3, rank 495, percentile 49)  
? Source Id: 28497  
? Author Ids: 9739222400;9740507100;7005085831;7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153;60015986;60025153;60025153  
? Corresponding: Estatico C.
252.  
? Title: An inexact-Newton method for short-range microwave imaging within the second-order born approximation  
? Venue: IEEE Transactions on Geoscience and Remote Sensing  
? Year: 2005  
? Type: Journal  
? Subtype: Conference Paper  
? Citations: 67  
? Doi: 10.1109/Tgrs.2005.856631  
? Scopus ID: 2-s2.0-27844535704  
? Issn: 01962892  
? Volume: 43  
? Issue: 11  
? Pages: 2593-2605  
? Authors: Estatico Claudio; Pastorino Matteo; Randazzo Andrea  
? Keywords: Dielectrics | Imaging | Inverse scattering | Iterative regularization | Newton methods  
? Quartile:  
2025:  
? Earth and Planetary Sciences (all) (Q1, rank 6, percentile 97)  
? Electrical and Electronic Engineering (Q1, rank 37, percentile 96)  
? Source Id: 17360  
? Author Ids: 9739222400;7004880389;7006280562

? Authoraffiliationids:

60025153;60000251-60025153-101036315-101913095;60000251-60025153

? Corresponding: Estatico C.

253.

? Title: A smart antenna system for direction of arrival estimation based on a support vector regression

? Venue: IEEE Transactions on Antennas and Propagation

? Year: 2005

? Type: Journal

? Subtype: Article

? Citations: 132

? Doi: 10.1109/TAP.2005.850735

? Scopus ID: 2-s2.0-23044495266

? Issn: 0018926x

? Volume: 53

? Issue: 7

? Pages: 2161-2168

? Authors: Pastorino Matteo; Randazzo Andrea

? Keywords: Antenna arrays | Direction of arrival (DOA) estimation | Regression | Support vector machines

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)

? Source Id: 17337

? Author Ids: 7004880389;7006280562

? Authoraffiliationids: 101036315;101036315

? Corresponding: Pastorino M.

254.

? Title: Optimization of the difference patterns for monopulse antennas by a hybrid real/integer-coded differential evolution method

? Venue: IEEE Transactions on Antennas and Propagation

? Year: 2005

? Type: Journal

? Subtype: Article

? Citations: 148

? Doi: 10.1109/TAP.2004.838788

? Scopus ID: 2-s2.0-13244279553

? Issn: 0018926x

? Volume: 53

? Issue: 1 li

? Pages: 372-376

? Authors: Caorsi Salvatore; Massa Andrea; Pastorino Matteo; Randazzo Andrea

? Keywords: Array antennas | Evolutionary algorithm | Monopulse antennas | Sum and difference patterns

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)

? Source Id: 17337

? Author Ids: 7102084534;7005085831;7004880389;7006280562

? Authoraffiliationids: 60015197;60015986;60025153;60025153

? Corresponding: Caorsi S.

255.

? Title: Microwave imaging of cylindrical inhomogeneities based on an analytical forward solver and multiple illuminations

? Venue: 2004 IEEE International Workshop on Imaging Systems and Techniques Ist  
? Year: 2004  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Scopus ID: 2-s2.0-15844430469  
? Pages: 100-105  
? Authors: Caorsi S.; Massa A.; Pastorino M.; Raffetto M.; Randazzo A.  
? Source Id: 145102  
? Author Ids: 7102084534;7005085831;7004880389;6701772951;7006280562  
? Authoraffiliationids: 60015197;60015986;60025153;60025153;60025153  
? Corresponding: Caorsi S.

256.

? Title: Real-time SVM-based approach for localization of sources  
? Venue: 2004 IEEE International Workshop on Imaging Systems and Techniques Ist  
? Year: 2004  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 8  
? Scopus ID: 2-s2.0-15844417955  
? Pages: 2-6  
? Authors: Pastorino M.; Randazzo A.  
? Keywords: Antenna arrays | Direction of arrival estimation | Regression | Support vector machines  
? Source Id: 145102  
? Author Ids: 7004880389;7006280562  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Pastorino M.

257.

? Title: Reconstruction of two-dimensional buried objects by a differential evolution method  
? Venue: Inverse Problems  
? Year: 2004  
? Type: Journal  
? Subtype: Article  
? Citations: 55  
? Doi: 10.1088/0266-5611/20/6/S09  
? Scopus ID: 2-s2.0-10844256668  
? Issn: 02665611  
? Volume: 20  
? Issue: 6  
? Pages: S135-S150  
? Authors: Massa A.; Pastorino M.; Randazzo A.  
? Quartile:  
2025:  
? Mathematical Physics (Q1, rank 21, percentile 77)  
? Applied Mathematics (Q2, rank 200, percentile 70)  
? Theoretical Computer Science (Q2, rank 58, percentile 57)  
? Signal Processing (Q2, rank 83, percentile 57)  
? Computer Science Applications (Q3, rank 495, percentile 49)  
? Source Id: 28497  
? Author Ids: 7005085831;7004880389;7006280562  
? Authoraffiliationids: 60015986;60025153;60025153  
? Corresponding: Massa A.

258.

? Title: Detection of PEC elliptic cylinders by a memetic algorithm using real data

? Venue: Microwave and Optical Technology Letters

? Year: 2004

? Type: Journal

? Subtype: Article

? Citations: 1

? DOI: 10.1002/mop.20442

? Scopus ID: 2-s2.0-7544230085

? Issn: 08952477

? Volume: 43

? Issue: 4

? Pages: 271-273

? Authors: Caorsi S.; Massa A.; Pastorino M.; Randazzo A.

? Keywords: Electromagnetic imaging | Elliptic cylinders | Evolutionary algorithms

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 542, percentile 45)

? Electronic, Optical and Magnetic Materials (Q3, rank 199, percentile 35)

? Atomic and Molecular Physics, and Optics (Q3, rank 156, percentile 34)

? Condensed Matter Physics (Q3, rank 296, percentile 33)

? Source Id: 12250

? Author Ids: 7102084534;7005085831;7004880389;7006280562

? Authoraffiliationids: 60015197;60015986;60025153;60025153

? Corresponding: Caorsi S.

259.

? Title: A microwave imaging method for NDE/NDT based on the SMW technique for the electromagnetic field prediction

? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference

? Year: 2004

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Scopus ID: 2-s2.0-4644280861

? Issn: 10915281

? Volume: 1

? Pages: 184-189

? Authors: Caorsi S.; Donelli M.; Massa A.; Pastorino M.; Randazzo A.; Rosani A.

? Keywords: Inverse Scattering Technique | Microwave Sensing and Measurements | NDT/NDE | SMW Inversion Method

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)

? Source Id: 15045

? Author Ids: 7102084534;7006135869;7005085831;7004880389;7006280562;6506074034

? Authoraffiliationids: 60015197;60015986;60015986;60025153;60025153;60015986

? Corresponding: Caorsi S.

260.

? Title: Detection of buried objects by an electromagnetic method based on a differential evolution approach

? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference

? Year: 2004

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 6  
? Doi: 10.1109/lmtc.2004.1351257  
? Scopus ID: 2-s2.0-4644228067  
? Issn: 10915281  
? Volume: 2  
? Pages: 1107-1111  
? Authors: Caorsi S.; Donelli M.; Massa A.; Pastorino M.; Randazzo A.  
? Keywords: Buried Objects | Genetic algorithms | Imaging Systems | Inversion Techniques | Microwaves  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)  
? Source Id: 15045  
? Author Ids: 7102084534;7006135869;7005085831;7004880389;7006280562  
? Authoraffiliationids: 60015197;60015986;60015986;60025153;60025153  
? Corresponding: Caorsi S.

261.  
? Title: A reconstruction procedure for microwave nondestructive evaluation based on a numerically computed green's function  
? Venue: IEEE Transactions on Instrumentation and Measurement  
? Year: 2004  
? Type: Journal  
? Subtype: Article  
? Citations: 12  
? Doi: 10.1109/tim.2004.831446  
? Scopus ID: 2-s2.0-4043078400  
? Issn: 00189456  
? Volume: 53  
? Issue: 4  
? Pages: 987-992  
? Authors: Caorsi Salvatore; Massa Andrea; Pastorino Matteo; Randazzo Andrea; Rosani Andrea  
? Quartile:  
2025:  
? Instrumentation (Q1, rank 16, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 119, percentile 88)  
? Source Id: 15361  
? Author Ids: 7102084534;7005085831;7004880389;7006280562;6506074034  
? Authoraffiliationids: 60015197;60015986;60025153;60025153;60015986  
? Corresponding: Caorsi S.

262.  
? Title: Reconstruction algorithms for electromagnetic imaging  
? Venue: IEEE Transactions on Instrumentation and Measurement  
? Year: 2004  
? Type: Journal  
? Subtype: Article  
? Citations: 24  
? Doi: 10.1109/tim.2004.827093  
? Scopus ID: 2-s2.0-2942511377  
? Issn: 00189456  
? Volume: 53  
? Issue: 3  
? Pages: 692-699  
? Authors: Pastorino Matteo; Caorsi Salvatore; Massa Andrea; Randazzo Andrea

? Keywords: Genetic algorithms | Imaging systems | Inversion techniques | Microwaves

? Quartile:

2025:

? Instrumentation (Q1, rank 16, percentile 91)

? Electrical and Electronic Engineering (Q1, rank 119, percentile 88)

? Source Id: 15361

? Author Ids: 7004880389;7102084534;7005085831;7006280562

? Authoraffiliationids: 60025153;60015197;60015986;60025153

? Corresponding: Pastorino M.

263.

? Title: Electromagnetic detection of dielectric scatterers using phaseless synthetic and real data and the memetic algorithm

? Venue: IEEE Transactions on Geoscience and Remote Sensing

? Year: 2003

? Type: Journal

? Subtype: Article

? Citations: 55

? Doi: 10.1109/Tgrs.2003.815676

? Scopus ID: 2-s2.0-0442280595

? Issn: 01962892

? Volume: 41

? Issue: 12 Part I

? Pages: 2745-2753

? Authors: Caorsi Salvatore; Massa Andrea; Pastorino Matteo; Randazzo Andrea

? Keywords: Electromagnetic imaging | Elliptic cylinders | Genetic algorithms | Inverse scattering

? Quartile:

2025:

? Earth and Planetary Sciences (all) (Q1, rank 6, percentile 97)

? Electrical and Electronic Engineering (Q1, rank 37, percentile 96)

? Source Id: 17360

? Author Ids: 7102084534;7005085831;7004880389;7006280562

? Authoraffiliationids: 60015197;60015986;60025153;60025153

? Corresponding: Caorsi S.

264.

? Title: Detection of Buried Inhomogeneous Elliptic Cylinders by a Memetic Algorithm

? Venue: IEEE Transactions on Antennas and Propagation

? Year: 2003

? Type: Journal

? Subtype: Article

? Citations: 54

? Doi: 10.1109/Tap.2003.817984

? Scopus ID: 2-s2.0-0142126356

? Issn: 0018926x

? Volume: 51

? Issue: 10 li

? Pages: 2878-2884

? Authors: Caorsi Salvatore; Massa Andrea; Pastorino Matteo; Raffetto Mirco; Randazzo Andrea

? Keywords: Electromagnetic imaging | Elliptic cylinders | Evolutionary algorithms

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 74, percentile 92)

? Source Id: 17337

- ? Author Ids: 7102084534;7005085831;7004880389;6701772951;7006280562  
? Authoraffiliationids: 60015197;60015986;60025153;60025153;60025153  
? Corresponding: Caorsi S.
- 265.
- ? Title: Multi-illumination approach based on a memetic algorithm for the electromagnetic imaging of cylindrical inhomogeneities  
? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference  
? Year: 2003  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Scopus ID: 2-s2.0-0038507605  
? Volume: 1  
? Pages: 653-658  
? Authors: Caorsi S.; Massa A.; Pastorino M.; Randazzo A.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)  
? Source Id: 15045  
? Author Ids: 7102084534;7005085831;7004880389;7006280562  
? Authoraffiliationids: 60015197;60015986;60025153;60025153  
? Corresponding: Caorsi S.
- 266.
- ? Title: A reconstruction procedure for microwave nondestructive evaluation based on a numerically computed green's function  
? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference  
? Year: 2003  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 6  
? Scopus ID: 2-s2.0-0037493673  
? Volume: 1  
? Pages: 669-674  
? Authors: Caorsi S.; Massa A.; Pastorino M.; Randazzo A.; Rosani A.  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)  
? Source Id: 15045  
? Author Ids: 7102084534;7005085831;7004880389;7006280562;6506074034  
? Authoraffiliationids: 60015197;60015986;60025153;60025153;60015986  
? Corresponding: Caorsi S.
- 267.
- ? Title: Digital-image formation based on the inversion of microwave scattering data  
? 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-s2.0-85084022228  
? Authors: Caorsi S.; Donelli M.; Gragnani G. L.; Massa A.; Pastorino M.; Randazzo A.  
? Keywords: Imaging systems | Inversion techniques | Microwaves  
? Source Id: 21100932446  
? Author Ids: 7102084534;7006135869;6701681576;7005085831;7004880389;7006280562

? Authoraffiliationids: 60015197;60025153;60025153;60015986;60025153;60025153

? Corresponding: Caorsi S.

268.

? Title: Reconstruction algorithms for electromagnetic imaging

? Venue: Conference Record IEEE Instrumentation and Measurement Technology Conference

? Year: 2002

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 8

? Scopus ID: 2-s2.0-0036053305

? Volume: 2

? Pages: 1695-1700

? Authors: Pastorino M.; Caorsi S.; Massa A.; Randazzo A.

? Keywords: Genetic algorithms | Imaging systems | Inversion techniques | Microwaves

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 634, percentile 36)

? Source Id: 15045

? Author Ids: 7004880389;7102084534;7005085831;7006280562

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Pastorino M.

269.

? Title: Active imaging approach for NDE applications based on a hybrid genetic algorithm

? Venue: 2001 31st European Microwave Conference Eumc 2001

? Year: 2001

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Euma.2001.339114

? Scopus ID: 2-s2.0-84897549258

? Authors: Pastorino M.; Caorsi S.; Massa A.; Randazzo A.

? Source Id: 21100301425

? Author Ids: 7004880389;7102084534;7005085831;7006280562

? Authoraffiliationids: 60025153;60015197;60015986;60025153

? Corresponding: Pastorino M.