

# PASTORINO MARTINA

## Overview

- ? Unit: ICT
- ? Role: Ricercatore
- ? Grade: Ricercatore t.d. art. 24 c. 3 lett. A Legge 240/10 (t.pieno)
- ? SSD: IINF-03/A (Telecomunicazioni)
- ? Scopus ID: 57222463026
- ? Unige Id: 425541
- ? Retrieved at: 2025-11-14T15:17:47.385983

## Contact

- ? Email: martina.pastorino@unige.it
- ? Page: <https://rubrica.unige.it/personale/UUFCXI5o>

## Career

- ? Dr, 2020-11-01 ? 2023-10-31
- ? Cb, 2021-03-02 ? 2024-02-20
- ? Ar, 2023-11-02 ? 2024-11-30
- ? Rd, 2024-12-01 ? 2027-11-30

## Teaching

### 2025

- ? Telecommunications (118118), Lm-28 - Electrical Engineering For Energy Transition
- ? Machine Learning For Pattern Recognition (104852), Lm-27 - Internet And Multimedia Engineering

### 2024

- ? Remote Sensing (80048), Lm-30 - Energy Engineering
- ? Machine Learning For Pattern Recognition (104852), Lm-27 - Internet And Multimedia Engineering

## Scopus Metrics

- ? absolute; Docs: 18; Journals: 8; Conferences: 9; Citations: 117; H-index: 5
- ? 15 years (2010-2025); Docs: 18; Journals: 8; Conferences: 9; Citations: 117; H-index: 5
- ? 10 years (2015-2025); Docs: 18; Journals: 8; Conferences: 9; Citations: 117; H-index: 5
- ? 05 years (2020-2025); Docs: 18; Journals: 8; Conferences: 9; Citations: 117; H-index: 5

## Scopus Products

1.

- ? Title: Multisource methodology for traffic analysis zone definition based on the fusion of Remote Sensing, OpenStreetMap, and Floating Car Data
- ? Venue: Journal of Transport Geography
- ? Year: 2025
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 0
- ? DOI: [10.1016/j.jtrangeo.2025.104324](https://doi.org/10.1016/j.jtrangeo.2025.104324)
- ? Scopus ID: 2-s2.0-105008195264
- ? Issn: 09666923
- ? Volume: 128
- ? Authors: Castiglione Marisdea; Gallo Federico; Pastorino Martina; Moser Gabriele; Nigro Marialisa; Sacco Nicola
- ? Keywords: Floating Car Data (FCD) | OpenStreetMap | Satellite images | Spatial

clustering | Traffic analysis zones

? Quartile:

2025:

? Geography, Planning and Development (Q1, rank 53, percentile 93)

? Environmental Science (all) (Q1, rank 30, percentile 87)

? Transportation (Q1, rank 30, percentile 81)

? Source Id: 29295

? Author Ids: 57435152800;57219260268;57222463026;7101795745;36158289300;35615294600

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

? Corresponding: Castiglione M.

2.

? Title: Probabilistic Fusion Framework Combining CNNs and Graphical Models for Multiresolution Satellite and UAV Image Classification

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

? Year: 2025

? Type: Book Series

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1007/978-3-031-78166-7\_19

? Scopus ID: 2-s2.0-85211914595

? Issn: 03029743

? eISSN: 16113349

? Volume: 15302 Lncs

? Pages: 287-303

? Authors: Pastorino Martina; Moser Gabriele; Guerra Fabien; Serpico Sebastiano B.; Zerubia Josiane

? Keywords: deep learning | graphical models | multiresolution imagery | probabilistic fusion | semantic segmentation | UAVs | wildfires

? Quartile:

2025:

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

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

? Source Id: 25674

? Author Ids: 57222463026;7101795745;59342817500;7005306316;56211628500

? Authoraffiliationids: 60025153-60032385;60025153;60102127;60025153;60032385

? Corresponding: Pastorino M.

3.

? Title: Deep Diffusion Models and Unsupervised Hyperspectral Unmixing for Realistic Abundance Map Synthesis

? Venue: IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Cvprw67362.2025.00286

? Scopus ID: 2-s2.0-105017851383

? Issn: 21607508

? eISSN: 21607516

? Pages: 3029-3037

? Authors: Pastorino Martina; Alibani Michael; Acito Nicola; Moser Gabriele

? Quartile:

2025:

- ? Electrical and Electronic Engineering (Q1, rank 54, percentile 94)
  - ? Computer Vision and Pattern Recognition (Q1, rank 13, percentile 92)
  - ? Source Id: 20100195041
  - ? Author Ids: 57222463026;57206664240;8390872300;7101795745
  - ? Authoraffiliationids: 60025153;60028868;60028868;60025153
  - ? Corresponding: Pastorino M.
- 4.
- ? Title: Investigating the Potential of Deep Learning Approaches in the Reconstruction of VNIR-SWIR Hyperspectral Data From Multispectral Imagery
  - ? Venue: IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
  - ? Year: 2025
  - ? Type: Journal
  - ? Subtype: Article
  - ? Citations: 1
  - ? Doi: 10.1109/Jstars.2025.3575518
  - ? Scopus ID: 2-s2.0-105007297563
  - ? Issn: 19391404
  - ? eISSN: 21511535
  - ? Volume: 18
  - ? Pages: 14215-14227
  - ? Authors: Alibani Michael; Pastorino Martina; Moser Gabriele; Acito Nicola
  - ? Keywords: Deep learning (DL) | hyperspectral (HS) data | spectral reconstruction (SR)
  - ? Quartile:
    - 2025:
      - ? Atmospheric Science (Q1, rank 19, percentile 87)
      - ? Computers in Earth Sciences (Q1, rank 11, percentile 86)
  - ? Source Id: 17700155033
  - ? Author Ids: 57206664240;57222463026;7101795745;8390872300
  - ? Authoraffiliationids: 60028868;60025153;60025153;60028868
  - ? Corresponding: Alibani M.
- 5.
- ? Title: Multiresolution Fusion and Classification of Hyperspectral and Panchromatic Remote Sensing Images
  - ? Venue: Proceedings 2025 IEEE CvF Winter Conference on Applications of Computer Vision Workshops Wacvw 2025
  - ? Year: 2025
  - ? Type: Conference Proceeding
  - ? Subtype: Conference Paper
  - ? Citations: 0
  - ? Doi: 10.1109/Wacvw65960.2025.00062
  - ? Scopus ID: 2-s2.0-105005026374
  - ? Pages: 507-516
  - ? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane
  - ? Keywords: classification | crf | fcn | hyperspectral imagery | multiresolution fusion
  - ? Source Id: 21101295029
  - ? Author Ids: 57222463026;7101795745;7005306316;56211628500
  - ? Authoraffiliationids: 60025153;60025153;60025153;60110693
  - ? Corresponding: Pastorino M.
- 6.
- ? Title: A Multiresolution Fusion Framework based on Probabilistic Graphical Modeling for Burnt Zones Mapping from Satellite and UAV Imagery
  - ? Venue: International Geoscience and Remote Sensing Symposium IGARSS
  - ? Year: 2024

? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Igarss53475.2024.10641389  
? Scopus ID: 2-s2.0-85204874432  
? Pages: 7919-7923  
? Authors: Pastorino Martina; Moser Gabriele; Guerra Fabien; Serpico Sebastiano B.; Zerubia Josiane  
? Keywords: fires | probabilistic fusion | satellite images | Semantic segmentation | UAV  
? Source Id: 82000  
? Author Ids: 57222463026;7101795745;59342817500;7005306316;56211628500  
? Authoraffiliationids: 60025153-60032385;60025153;60102127;60025153;60032385  
? Corresponding: Pastorino M.

- 7.
- ? Title: CRFNet: A Deep Convolutional Network to Learn the Potentials of a CRF for the Semantic Segmentation of Remote Sensing Images  
? Venue: IEEE Transactions on Geoscience and Remote Sensing  
? Year: 2024  
? Type: Journal  
? Subtype: Article  
? Citations: 8  
? Doi: 10.1109/Tgrs.2024.3452631  
? Scopus ID: 2-s2.0-85202774976  
? Issn: 01962892  
? eISSN: 15580644  
? Volume: 62  
? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane  
? Keywords: Conditional random fields (CRFs) | convolutional neural network (CNN) | fully convolutional network (FCN) | remote sensing | semantic segmentation  
? Quartile:  
2025:  
? Earth and Planetary Sciences (all) (Q1, rank 6, percentile 97)  
? Electrical and Electronic Engineering (Q1, rank 37, percentile 96)  
2024:  
? Earth and Planetary Sciences (all) (Q1, rank 7, percentile 96)  
? Electrical and Electronic Engineering (Q1, rank 48, percentile 95)  
? Source Id: 17360  
? Author Ids: 57222463026;7101795745;7005306316;56211628500  
? Authoraffiliationids: 60025153-60032385;60025153;60025153;60032385  
? Corresponding: Pastorino M.

- 8.
- ? Title: Multimission, Multifrequency, and Multiresolution SAR Image Classification Through Hierarchical Markov Models and Convolutional Networks  
? Venue: IEEE Geoscience and Remote Sensing Letters  
? Year: 2024  
? Type: Journal  
? Subtype: Article  
? Citations: 2  
? Doi: 10.1109/Lgrs.2024.3414284  
? Scopus ID: 2-s2.0-85196080332  
? Issn: 1545598x  
? eISSN: 15580571  
? Volume: 21

? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane  
? Keywords: Classification | CNN | fully convolutional network (FCN) | Markov random field (MRF) | multifrequency | multimission | multiresolution | probabilistic graphical model (PGM) | synthetic aperture radar (SAR) imagery

? Quartile:

2025:

? Geotechnical Engineering and Engineering Geology (Q1, rank 22, percentile 91)  
? Electrical and Electronic Engineering (Q1, rank 90, percentile 91)

2024:

? Geotechnical Engineering and Engineering Geology (Q1, rank 27, percentile 88)  
? Electrical and Electronic Engineering (Q1, rank 129, percentile 86)

? Source Id: 17259

? Author Ids: 57222463026;7101795745;7005306316;56211628500

? Authoraffiliationids: 60025153-60032385;60025153;60025153;60032385

? Corresponding: Pastorino M.

9.

? Title: Learning CRF potentials through fully convolutional networks for satellite image semantic segmentation

? Venue: Proceedings 17th International Conference on Signal Image Technology and Internet Based Systems Sitis 2023

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Sitis61268.2023.00023

? Scopus ID: 2-s2.0-85190155954

? Pages: 93-98

? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane

? Keywords: CNN | CRF | FCN | satellite images | semantic segmentation

? Source Id: 21101213846

? Author Ids: 57222463026;7101795745;7005306316;56211628500

? Authoraffiliationids: 60025153-60032385;60025153;60025153;60032385

? Corresponding: Pastorino M.

10.

? Title: Classification of Multimission SAR Images Based on Probabilistic Graphical Models and Convolutional Neural Networks

? Venue: International Geoscience and Remote Sensing Symposium IGARSS

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Igarss52108.2023.10283356

? Scopus ID: 2-s2.0-85177999060

? Volume: 2023-July

? Pages: 1420-1423

? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane

? Keywords: CNN | FCN | MRF | multimodal SAR imagery | multisensor | PGM | semantic segmentation

? Source Id: 82000

? Author Ids: 57222463026;7101795745;7005306316;56211628500

? Authoraffiliationids: 60025153-60032385;60025153;60025153;60032385

? Corresponding: Pastorino M.

11.

? Title: Multimodal Fusion of Mobility Demand Data and Remote Sensing Imagery for Urban

Land-Use and Land-Cover Mapping

? Venue: Remote Sensing  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 5  
? DOI: 10.3390/rs14143370  
? Scopus ID: 2-s2.0-85136386550  
? eISSN: 20724292  
? Volume: 14  
? Issue: 14

? Authors: Pastorino Martina; Gallo Federico; Di Febbraro Angela; Moser Gabriele; Sacco Nicola; Serpico Sebastiano B.

? Keywords: data fusion | Markov random fields | mobility demand | transport zones | urban land-use mapping

? Quartile:

2025:

? Earth and Planetary Sciences (all) (Q1, rank 12, percentile 94)

2022:

? Earth and Planetary Sciences (all) (Q1, rank 18, percentile 90)

? Source Id: 86430

? Author Ids: 57222463026;57219260268;57207860581;7101795745;35615294600;7005306316

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

? Corresponding: Pastorino M.

12.

? Title: Fully Convolutional And Feedforward Networks For The Semantic Segmentation Of Remotely Sensed Images

? Venue: Proceedings International Conference on Image Processing Icip

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5

? Doi: 10.1109/Icip46576.2022.9897336

? Scopus ID: 2-s2.0-85146639359

? Issn: 15224880

? Pages: 1876-1880

? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane

? Keywords: CNN | FCN | feedforward networks | multiresolution satellite images | semantic segmentation

? Quartile:

2025:

? Computer Vision and Pattern Recognition (Q2, rank 64, percentile 62)

? Signal Processing (Q2, rank 78, percentile 60)

? Software (Q2, rank 247, percentile 50)

? Source Id: 144684

? Author Ids: 57222463026;7101795745;7005306316;56211628500

? Authoraffiliationids: 60025153-60032385;60025153;60025153;60032385

? Corresponding: Pastorino M.

13.

? Title: Semantic Segmentation of SAR Images Through Fully Convolutional Networks and Hierarchical Probabilistic Graphical Models

? Venue: International Geoscience and Remote Sensing Symposium IGARSS

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Igarss46834.2022.9883111  
? Scopus ID: 2-s2.0-85140383164  
? Volume: 2022-July  
? Pages: 1047-1050  
? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane  
? Keywords: CNN | FCN | hierarchical Markov models | PGM | SAR imagery | semantic segmentation  
? Source Id: 82000  
? Author Ids: 57222463026;7101795745;7005306316;56211628500  
? Authoraffiliationids: 60025153-60032385;60025153;60025153;60032385  
? Corresponding: Pastorino M.

14.

? Title: Semantic Segmentation of Remote-Sensing Images Through Fully Convolutional Neural Networks and Hierarchical Probabilistic Graphical Models  
? Venue: IEEE Transactions on Geoscience and Remote Sensing  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 39  
? Doi: 10.1109/Tgrs.2022.3141996  
? Scopus ID: 2-s2.0-85122849520  
? Issn: 01962892  
? eISSN: 15580644  
? Volume: 60  
? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane  
? Keywords: Convolutional neural network (CNN) | fully convolutional network (FCN) | hierarchical Markov model | multiscale analysis | probabilistic graphical model (PGM) | remote sensing | semantic segmentation  
? 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: 57222463026;7101795745;7005306316;56211628500  
? Authoraffiliationids: 60025153-60110693;60025153;60025153;60110693  
? Corresponding: Pastorino M.

15.

? Title: Evaluating LoRaWAN connectivity in a marine scenario  
? Venue: Journal of Marine Science and Engineering  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 14  
? DOI: 10.3390/jmse9111218  
? Scopus ID: 2-s2.0-85119626513  
? eISSN: 20771312  
? Volume: 9  
? Issue: 11  
? Authors: Pensieri Sara; Viti Federica; Moser Gabriele; Serpico Sebastiano Bruno;

Maggiolo Luca; Pastorino Martina; Solarna David; Cambiaso Andrea; Carraro Carlo; Degano Cristiana; Mainenti Ilaria; Seghezza Silvia; Bozzano Roberto

? Keywords: Internet of things (IoT) | LoRaWAN | Low power wide area network (LPWAN) | Marine technology

? Quartile:

2025:

? Ocean Engineering (Q1, rank 29, percentile 75)

? Civil and Structural Engineering (Q2, rank 110, percentile 73)

? Water Science and Technology (Q2, rank 77, percentile 72)

2021:

? Ocean Engineering (Q2, rank 42, percentile 57)

? Civil and Structural Engineering (Q2, rank 159, percentile 51)

? Water Science and Technology (Q3, rank 121, percentile 49)

? Source Id: 21100830140

? Author Ids: 35311650600;9270376500;7101795745;7005306316;57207878137;57222463026;5719

2703421;57349573900;57349709100;6602277633;56422305300;55838166900;6602292250

? Authoraffiliationids: 60021199;60021199;60025153;60025153;60025153;60025153;60025153;127278704;127279421;101838253;101838253;123796635;60021199

? Corresponding: Pensieri S.

16.

? Title: Multisensor and multiresolution remote sensing image classification through a causal hierarchical markov framework and decision tree ensembles

? Venue: Remote Sensing

? Year: 2021

? Type: Journal

? Subtype: Article

? Citations: 34

? DOI: 10.3390/rs13050849

? Scopus ID: 2-s2.0-85102777777

? eISSN: 20724292

? Volume: 13

? Issue: 5

? Pages: 1-25

? Authors: Pastorino Martina; Montaldo Alessandro; Fronda Luca; Hedhli Ihsen; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane

? Keywords: Causal Markov model | Decision tree ensemble | Hierarchical Markov random field | Markov chain | Markov mesh random field | Multimodal data fusion | Multiresolution and multisensor fusion | Remote sensing | Semantic image segmentation

? 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:

57222463026;57212479880;57212479749;56422415400;7101795745;7005306316;56211628500

? Authoraffiliationids:

60025153-60110693;60025153;60025153;60032619;60025153;60025153;60110693

? Corresponding: Pastorino M.

17.

? Title: Hierarchical Probabilistic Graphical Models and Deep Convolutional Neural Networks for Remote Sensing Image Classification

? Venue: European Signal Processing Conference

? Year: 2021

? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.23919/Eusipco54536.2021.9616179  
? Scopus ID: 2-s2.0-85123166099  
? Issn: 22195491  
? Volume: 2021-August  
? Pages: 1740-1744  
? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane  
? Keywords: CNN | Hierarchical PGM | Multiresolution | Remote sensing | Semantic segmentation  
? Quartile:  
2025:  
? Signal Processing (Q3, rank 109, percentile 44)  
? Electrical and Electronic Engineering (Q3, rank 573, percentile 42)  
? Source Id: 21100204301  
? Author Ids: 57222463026;7101795745;7005306316;56211628500  
? Authoraffiliationids: 60025153-60110693;60025153;60025153;60110693  
? Corresponding: Pastorino M.

18.

? Title: Semantic Segmentation Of Remote Sensing Images Combining Hierarchical Probabilistic Graphical Models And Deep Convolutional Neural Networks  
? Venue: International Geoscience and Remote Sensing Symposium IGARSS  
? Year: 2021  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Igarss47720.2021.9553253  
? Scopus ID: 2-s2.0-85114557018  
? Volume: 2021-July  
? Pages: 8672-8675  
? Authors: Pastorino Martina; Moser Gabriele; Serpico Sebastiano B.; Zerubia Josiane  
? Keywords: CNN | FCN | Hierarchical Markov models | Multiresolution images | PGM | Semantic segmentation  
? Source Id: 82000  
? Author Ids: 57222463026;7101795745;7005306316;56211628500  
? Authoraffiliationids: 60025153-60110693;60025153;60025153;60110693  
? Corresponding: Pastorino M.