

PATRONE FABIO

Overview

- ? Unit: ICT
- ? Role: Ricercatore
- ? Grade: Ricercatore t.d. art. 24 c. 3 lett. B Legge 240/10 (t.pieno) + 20%
- ? SSD: IINF-03/A (Telecomunicazioni)
- ? Scopus ID: 56536292600
- ? Unige Id: 703800
- ? Retrieved at: 2025-11-14T15:17:50.562116

Contact

- ? Email: fabio.patrone01@unige.it
- ? Phone: +39 010 33 52042
- ? Page: <https://rubrica.unige.it/personale/UkNEU1pp>
- ? Locations: Opera Pia - padiglione C (Ex CNR) (ED161450501), 3° piano, US161450501.III.011

Career

- ? Ar, 2013-10-01 ? 2021-02-28
- ? Rd, 2021-03-01 ? 2026-10-31

Responsibilities

- ? Title: Componente della Commissione paritetica docenti-studenti di scuola
- ? Unit: Scuola politecnica
- ? Period: 2025-11-01 ? 2027-10-31

Teaching

2025

- ? Elementi Di Telecomunicazioni (107829), L-P03 - Tecnologie Industriali
- ? Tecnologie Ict Per L'Industria 4.0 (113231), Stsi PI - Indirizzo Scienze E Tecnologie Per La Societa' Dell'Informazione
- ? Strategies For Telecommunications (98228), Lm/Ds - Engineering Technology For Strategy And Security
- ? Strategies For Telecommunications (98228), Lm/Ds - Engineering Technology For Strategy And Security

2024

- ? Digital Communications 2 (114552), Lm-27 - Internet And Multimedia Engineering
- ? Strategies For Telecommunications (98228), Lm/Ds - Engineering Technology For Strategy (And Security)
- ? Strategies For Telecommunications (98228), Lm/Ds - Engineering Technology For Strategy (And Security)
- ? Elementi Di Telecomunicazioni (107829), L-P03 - Tecnologie Industriali

2023

- ? Strategies For Telecommunications (98228), Lm/Ds - Engineering Technology For Strategy (And Security)
- ? Elementi Di Telecomunicazioni (107829), L-P03 - Tecnologie Industriali
- ? Tecnologie Ict Per L'Industria 4.0 (113231), Stsi PI - Indirizzo Scienze E Tecnologie Per La Societa' Dell'Informazione

2022

- ? Strategies For Telecommunications (98228), Lm/Ds - Engineering Technology For Strategy

(And Security)

? Elementi Di Telecomunicazioni (107829), L-P03 - Tecnologie Industriali

2021

? Tecnologie Dell'Informazione E Della Comunicazione Per L'Industria 4.0 (103479), Stsi

PI-In2 - Indirizzo Scienze E Tecnologie Per La Societa' Dell'Informazione

? Strategies For Telecommunications (98228), Lm/Ds - Engineering Technology For Strategy
(And Security)

Scopus Metrics

? absolute; Docs: 61; Journals: 23; Conferences: 31; Citations: 1041; H-index: 17

? 15 years (2010-2025); Docs: 61; Journals: 23; Conferences: 31; Citations: 1041; H-index:
17

? 10 years (2015-2025); Docs: 60; Journals: 23; Conferences: 30; Citations: 1036; H-index:
17

? 05 years (2020-2025); Docs: 43; Journals: 16; Conferences: 23; Citations: 399; H-index:
11

Scopus Products

1.

? Title: Performance Analysis and Security Preservation of DSRC in V2X Networks

? Venue: Electronics Switzerland

? Year: 2025

? Type: Journal

? Subtype: Article

? Citations: 0

? DOI: 10.3390/electronics14193786

? Scopus ID: 2-s2.0-105019060964

? eISSN: 20799292

? Volume: 14

? Issue: 19

? Authors: Sohail Muhammad Saad; Portomauro Giancarlo; Gaggero Giovanni Battista;
Patrone Fabio; Marchese Mario

? Keywords: Denial of Service | DSRC | jamming attacks | Software-Defined Radio | V2X
communications

? 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: 59364633700;15128054100;57216708944;56536292600;7004398165

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

? Corresponding: Sohail M.S.

2.

? Title: Rule-Based eXplainable Autoencoder for DNS Tunneling Detection

? Venue: Computers

? Year: 2025

? Type: Journal

? Subtype: Article

? Citations: 0

? DOI: 10.3390/computers14090375

? Scopus ID: 2-s2.0-105017507470
? eISSN: 2073431X
? Volume: 14
? Issue: 9
? Authors: De Bernardi Giacomo; Gaggero Giovanni Battista; Patrone Fabio; Zappatore Sandro; Marchese Mario; Mongelli Maurizio
? Keywords: DNS tunnelling | eXplainable AI | intrusion detection system | statistical traffic analysis
? Quartile:
2025:
? Computer Science (miscellaneous) (Q1, rank 26, percentile 85)
? Computer Networks and Communications (Q1, rank 90, percentile 83)
? Human-Computer Interaction (Q2, rank 55, percentile 71)
? Source Id: 21100886391
? Author Ids: 58146713400;57216708944;56536292600;6602811400;7004398165;7005882346
? Authoraffiliationids: 60021199;60025153;60025153;60025153;60025153;60025153;60021199
? Corresponding: De Bernardi G.

3.
? Title: Network Simulations for Non-Terrestrial Networks: Overcoming Deployment Challenges and Advancing System Optimization
? Venue: 2025 IEEE International Conference on Communications Workshops Icc Workshops 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/ICCWorkshops67674.2025.11162227
? Scopus ID: 2-s2.0-105018050217
? Pages: 2051-2056
? Authors: Badini Nour; Patrone Fabio; Zanon Arianna Miraval; Marchese Mario
? Keywords: Network Optimization | Non-Terrestrial Networks | Satellite Communications | Satellite Simulator
? Source Id: 21101337382
? Author Ids: 57854682900;56536292600;57200721477;7004398165
? Authoraffiliationids: 60025153;60025153;60031612;60025153
? Corresponding: Badini N.

4.
? Title: CyberVehiCare: A Testbed for Cybersecurity of Vehicle to Everything (V2X) Automotive Systems
? Venue: Proceedings of the 2025 IEEE International Conference on Cyber Security and Resilience Csr 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Csr64739.2025.11130024
? Scopus ID: 2-s2.0-105016108611
? Pages: 818-823
? Authors: Rahman Md Arafatur; Tan Sze Wei; Sohail Mohammed Saad; Gaggero Giovanni Battista; Patrone Fabio; Marchese Mario; Pillai Prashant
? Keywords: Automotive Cybersecurity | CAN Bus Security | Connected Vehicles | CyberVehiCare | Software-Defined Radio | Testbed | V2X Communication | Vehicle Health Monitoring
? Source Id: 21101331270

- ? Author Ids: 55457938100;59173456600;60102416500;57216708944;56536292600;7004398165;7102162572
? Authoraffiliationids: 60007173;60007173;60025153;60025153;60025153;60025153;60007173
? Corresponding: Rahman M.A.
5.
? Title: Power-Domain Non-Orthogonal Multiple Access for Distributed Non-Terrestrial Networks: A Semi-Analytical Throughput Estimation
? Venue: 2025 IEEE International Workshop on Metrology for Aerospace Metroaerospace 2025 Proceedings
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? DOI: 10.1109/MetroAeroSpace64938.2025.11114494
? Scopus ID: 2-s2.0-105015449486
? Pages: 233-238
? Authors: Comisso Massimiliano; Babich Fulvio; Buttazzoni Giulia; Carini Alberto; Carrato Sergio; Marsi Stefano; Patrone Fabio; Sacchi Claudio; Vatta Francesca
? Keywords: distributed UAV/satellite networks | power statistic | Power-domain NOMA | throughput evaluation
? Source Id: 21101329124
? Author Ids: 13908144400;7003613315;35241920800;7005389788;7004596594;6602130428;56536292600;56206655300;7004425898
? Authoraffiliationids: 60018363;60018363;60018363;60018363;60018363;60018363;60025153;60015986;60018363
? Corresponding: Comisso M.
6.
? Title: Scalable Satellite Handover Management in Non-Terrestrial Networks: A Distributed MADQL Approach
? Venue: IEEE Transactions on Aerospace and Electronic Systems
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? Doi: 10.1109/Taes.2025.3594697
? Scopus ID: 2-s2.0-105012585767
? Issn: 00189251
? eISSN: 15579603
? Authors: Badini Nour; Jaber Mona; Marchese Mario; Patrone Fabio
? Keywords: Deep Reinforcement Learning | LEO Satellite Handover | Non-Terrestrial Networks | Resource Management | Satellite Communications and Networking
? Quartile:
2025:
? Aerospace Engineering (Q1, rank 11, percentile 93)
? Electrical and Electronic Engineering (Q1, rank 109, percentile 89)
? Source Id: 17336
? Author Ids: 57854682900;56970872000;7004398165;56536292600
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Badini N.
7.
? Title: Evaluating Performance in Satellite Communication Networks: An NS3-Based Simulation Study
? Venue: IEEE Aerospace Conference Proceedings
? Year: 2025

- ? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Aero63441.2025.11068597
? Scopus ID: 2-s2.0-105012214121
? Issn: 1095323x
? Authors: Badini Nour; Patrone Fabio; Zanon Arianna Miraval; Marchese Mario
? Quartile:
2025:
? Aerospace Engineering (Q3, rank 88, percentile 45)
? Space and Planetary Science (Q3, rank 67, percentile 35)
? Source Id: 75113
? Author Ids: 57854682900;56536292600;57200721477;7004398165
? Authoraffiliationids: 60025153;60025153;60031612;60025153
? Corresponding: Badini N.
8.
? Title: On the Latency Trade-off Between Space and Terrestrial Clouds in Non-Terrestrial Networks
? Venue: 2025 12th Advanced Satellite Multimedia Systems Conference and the 18th Signal Processing for Space Communications Workshop Asms Spsc 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Asms/Spsc64465.2025.10946050
? Scopus ID: 2-s2.0-105002903093
? Authors: Rojas Camilo; Fraire Juan A.; Patrone Fabio; Marchese Mario
? Keywords: Multi-access Edge Computing
? Source Id: 21101289793
? Author Ids: 57202198493;55667636500;56536292600;7004398165
? Authoraffiliationids: 60025153;60013373-60000658;60025153;60025153
? Corresponding: Rojas C.
9.
? Title: Federated Learning for Rule-Based Systems: Preliminary Studies
? Venue: 8th IEEE International Forum on Research and Technologies for Society and Industry Innovation Rtsi 2024 Proceeding
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Rtsi61910.2024.10761552
? Scopus ID: 2-s2.0-85213818194
? Pages: 143-148
? Authors: Samandari Ahmad; Marchese Mario; Paglialonga Alessia; Patrone Fabio; Rampa Vittorio; Mongelli Maurizio
? Keywords: Decision Tree | eXplainable AI | Federated Learning | non-IID Data | Rule-Based Systems
? Source Id: 21101267110
? Author Ids: 59496319300;7004398165;23668671800;56536292600;6603275866;7005882346
? Authoraffiliationids: 60025153-60021199;60025153;60021199;60025153;60021199;60021199
? Corresponding: Samandari A.
10.
? Title: Trusted SMEs for Sustainable Growth of Europeans Economical Backbone to Strengthen the Digital Sovereignty: The KDT Resilient Trust Project

? Venue: Proceedings 2024 27th Euromicro Conference on Digital System Design Dsd 2024
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Dsd64264.2024.00088
? Scopus ID: 2-s2.0-85211958375
? Pages: 620-627
? Authors: Aboushady Hassan; Beringuier-Boher Noemie; Burke Kelly; Dallemagne Philippe; De Biase Mario; Di Frangia Manuel; Deniau Virginie; Ferrari Enrico; Gaquiere Christophe; Morche Dominique; Patrone Fabio; Pesci Stefano; Pomante Luigi; Stam Andries; Stornelli Vincenzo; Stratigopoulos Haralampos G.; Taouil Mottaqiallah; Vaumorin Emmanuel; Villain Jonathan; Steeghs Sander
? Keywords: IoT | Resilience | Security | Trust
? Source Id: 21101263921
? Author Ids: 6602629520;55779244900;59471005800;7003345064;57892795300;59470875700;24466454100;26637957600;7003970918;6603016362;56536292600;59470494400;55905317800;12751767400;9640252200;6506132589;35771648500;36571069100;57209748921;57196223990
? Authoraffiliationids: 132036112;132036246;117768780;60003767;129774334;60010192;60138422;132036603;131229694;60104653;60025153;132036249;60018783;106742251;60018783;60001422;60006288;132036492;60138422;106742251
? Corresponding: Aboushady H.

11.

? Title: An SDR-Based Framework for Cybersecurity Assessment of Vehicle-to-Everything (V2X) Systems
? Venue: Proceedings of the 2024 IEEE International Conference on Cyber Security and Resilience Csr 2024
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/Csr61664.2024.10679384
? Scopus ID: 2-s2.0-85206183642
? Pages: 537-544
? Authors: Sohail Muhammad Saad; Portamauro Giancarlo; Patrone Fabio; Marchese Mario
? Keywords: Cellular | Decentralized Environmental Notification Message (DENM) | Dedicated Short-Range Communications (DSRC) | In-Vehicle Information (IVI) | Intelligent Transportation Service | On Board Unit (OBU) | Road Side Unit (RSU) | Vehicle to everything
? Source Id: 21101253086
? Author Ids: 59364633700;59364527700;56536292600;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Sohail M.S.

12.

? Title: Fuzzy Logic-Based Orchestration of Multi-Access Edge Computing in LEO Satellite Constellations
? Venue: 2024 IEEE International Conference on Communications Workshops Icc Workshops 2024
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? DOI: 10.1109/ICCWorkshops59551.2024.10615305
? Scopus ID: 2-s2.0-85202450056

? Pages: 1685-1690
? Authors: Rojas Camilo; Fraire Juan A.; Patrone Fabio; Marchese Mario
? Keywords: Multi-access Edge Computing | Satellite Constellation
? Source Id: 21101245169
? Author Ids: 57202198493;55667636500;56536292600;7004398165
? Authoraffiliationids: 60025153;60013373-60000658;60025153;60025153
? Corresponding: Rojas C.

13.

? Title: Advanced Constellation Emulation and Synthetic Datasets Generation for Non-Terrestrial Networks
? Venue: 2024 IEEE International Mediterranean Conference on Communications and Networking Meditcom 2024
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? DOI: 10.1109/MeditCom61057.2024.10621248
? Scopus ID: 2-s2.0-85202354976
? Pages: 37-43
? Authors: Rojas Camilo; Fraire Juan A.; Patrone Fabio; Marchese Mario
? Keywords: Machine Learning | Multi-access Edge Computing | Satellite Constellation | Software-Defined Networks | Synthetic Datasets
? Source Id: 21101244717
? Author Ids: 57202198493;55667636500;56536292600;7004398165
? Authoraffiliationids: 60025153;60013373-60000658;60025153;60025153
? Corresponding: Rojas C.

14.

? Title: User-Centric Satellite Handover for Multiple Traffic Profiles Using Deep Q-Learning
? Venue: IEEE Transactions on Aerospace and Electronic Systems
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 8
? Doi: 10.1109/Taes.2024.3434771
? Scopus ID: 2-s2.0-85200261460
? Issn: 00189251
? eISSN: 15579603
? Volume: 60
? Issue: 6
? Pages: 8591-8604
? Authors: Badini Nour; Jaber Mona; Marchese Mario; Patrone Fabio
? Keywords: Deep neural network (DNN) | deep Q-learning (DQL) | distributed satellite handover (HO) | multiagent reinforcement learning (MARL) | satellite-terrestrial integrated network (STIN) simulator
? Quartile:
2025:
? Aerospace Engineering (Q1, rank 11, percentile 93)
? Electrical and Electronic Engineering (Q1, rank 109, percentile 89)
2024:
? Aerospace Engineering (Q1, rank 14, percentile 91)
? Electrical and Electronic Engineering (Q1, rank 126, percentile 87)
? Source Id: 17336
? Author Ids: 57854682900;56970872000;7004398165;56536292600

? Authoraffiliationids:

60025153-60022109;60025153-60022109;60025153-60022109;60025153-60022109

? Corresponding: Badini N.

15.

? Title: OpenSatRange: An Open Cyber Range for Operators and Users of Satellite Communication Networks

? Venue: Ceur Workshop Proceedings

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Scopus ID: 2-s2.0-85199538329

? Issn: 16130073

? Volume: 3731

? Authors: Patrone Fabio; Loretì Pierpaolo; Fiscariello Luca; Bracciale Lorenzo; Amici Alessandro; Detti Andrea; Roseti Cesare; Zampognaro Francesco; Luglio Michele; Bianchi Giuseppe; Marchese Mario

? Keywords: Cyber range | OpenStack | Satellite communication networks

? Quartile:

2025:

? Computer Science (all) (Q4, rank 214, percentile 11)

2024:

? Computer Science (all) (Q4, rank 215, percentile 10)

? Source Id: 21100218356

? Author Ids: 56536292600;7003459349;59233438400;24722537100;57697346500;6602789368;15127967700;24484308800;7003570928;7203066398;7004398165

? Authoraffiliationids: 60025153;60103966;60331872;60103966;60103966;60103966;60331872;60331872;60331872;60103966;60025153

? Corresponding: Patrone F.

16.

? Title: Vulnerability Assessment of Industrial and Agricultural Control Systems within the IoT Framework

? Venue: Intelligent Computing on Iot 2 0 Big Data Analytics and Block Chain Technology

? Year: 2024

? Type: Book

? Subtype: Book Chapter

? Citations: 2

? Doi: 10.1201/9781003326236-19

? Scopus ID: 2-s2.0-85194761973

? Pages: 350-371

? Authors: Caviglia Roberto; Davoli Franco; Fausto Alessandro; Gaggero Giovanni; Marchese Mario; Moheddine Aya; Patrone Fabio; Portomauro Giancarlo

? Source Id: 21101225740

? Author Ids: 57700266100;57220364548;57216708248;57216708944;7004398165;57210886858;56536292600;15128054100

? Authoraffiliationids:

60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153

? Corresponding: Caviglia R.

17.

? Title: UAV-based LoRaWAN flying gateway for the internet of flying things

? Venue: International Journal of Communication Systems

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 2
? DOI: 10.1002/dac.5421
? Scopus ID: 2-s2.0-85144832641
? ISSN: 10745351
? eISSN: 10991131
? Volume: 36
? Issue: 5
? Authors: Moheddine Aya; Patrone Fabio; Marchese Mario
? Keywords: data mule | flying gateway | internet of flying things | LoRaWAN | low power wide area network | unmanned aerial vehicle
? Quartile:
2025:
? Electrical and Electronic Engineering (Q2, rank 309, percentile 69)
? Computer Networks and Communications (Q2, rank 171, percentile 68)
2023:
? Electrical and Electronic Engineering (Q2, rank 218, percentile 72)
? Computer Networks and Communications (Q2, rank 123, percentile 68)
? Source Id: 17964
? Author Ids: 57210886858;56536292600;7004398165
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Moheddine A.

18.
? Title: Routing in Scalable Delay-Tolerant Space Networks with Graph Neural Networks
? Venue: International Conference on Embedded Wireless Systems and Networks
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Scopus ID: 2-s2.0-85200537490
? eISSN: 25622331
? Authors: Olmedo Matias; Fraire Juan A.; Cherini Renato; Patrone Fabio; Marchese Mario
? Quartile:
2025:
? Computer Networks and Communications (Q4, rank 451, percentile 17)
? Information Systems (Q4, rank 414, percentile 16)
? Electrical and Electronic Engineering (Q4, rank 831, percentile 16)
2023:
? Electrical and Electronic Engineering (Q3, rank 515, percentile 35)
? Computer Networks and Communications (Q3, rank 276, percentile 30)
? Information Systems (Q3, rank 281, percentile 28)
? Source Id: 21101067699
? Author Ids: 57544437200;55667636500;35247776600;56536292600;7004398165
? Authoraffiliationids: 60020507;60016253-60004518;60000658;60025153;60025153
? Corresponding: Olmedo M.

19.
? Title: Continuous Time Emulation for Software-Defined Non-Terrestrial Edge Computing Networks
? Venue: 28th European Wireless Conference Ew 2023
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Scopus ID: 2-s2.0-85191259429
? Pages: 223-228

? Authors: Rojas Camilo; Fraire Juan A.; Patrone Fabio; Gotta Alberto; Marchese Mario
? Keywords: Multi-access Edge Computing | Satellite Constellation | Software-Defined Networks
? Source Id: 21101216404
? Author Ids: 57202198493;55667636500;56536292600;9846429300;7004398165
? Authoraffiliationids: 60025153;60016253-60000658;60025153;60008218;60025153
? Corresponding: Rojas C.

20.

? Title: Energy-Aware Satellite Handover Based on Deep Reinforcement Learning
? Venue: 2023 IEEE Globecom Workshops GC Wkshps 2023
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? DOI: 10.1109/GCWkshps58843.2023.10464394
? Scopus ID: 2-s2.0-85190246987
? Pages: 437-442
? Authors: Badini Nour; Jaber Mona; Marchese Mario; Patrone Fabio
? Keywords: Deep Neural Network | Deep Q-Learning | Energy Efficiency | Multi-Agent Reinforcement Learning | Satellite Handover | Satellite-Terrestrial Integrated Network Simulator
? Source Id: 21101214471
? Author Ids: 57854682900;56970872000;7004398165;56536292600
? Authoraffiliationids: 60025153-60022109;60022109;60025153;60025153
? Corresponding: Badini N.

21.

? Title: Reinforcement Learning-Based Load Balancing Satellite Handover Using NS-3
? Venue: IEEE International Conference on Communications
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 11
? Doi: 10.1109/Icc45041.2023.10279521
? Scopus ID: 2-s2.0-85178287743
? Issn: 15503607
? Volume: 2023-May
? Pages: 2595-2600
? Authors: Badini Nour; Jaber Mona; Marchese Mario; Patrone Fabio
? Keywords: 5G Satellite-Terrestrial Integrated Networks | NS-3 | Reinforcement Learning | Satellite Handover
? Source Id: 33201
? Author Ids: 57854682900;56970872000;7004398165;56536292600
? Authoraffiliationids: 60025153-60022109;60022109;60025153;60025153
? Corresponding: Badini N.

22.

? Title: Intelligent Space Communication Networks
? Venue: Signals and Communication Technology
? Year: 2023
? Type: Book Series
? Subtype: Book Chapter
? Citations: 1
? Doi: 10.1007/978-3-031-30762-1_7
? Scopus ID: 2-s2.0-85166118794
? Issn: 18604862

? eISSN: 18604870
? Volume: Part F1069
? Pages: 171-183
? Authors: Marchese Mario; Morosi Simone; Patrone Fabio
? Keywords: Artificial intelligence | Edge computing | Remote sensing | Resource allocation | Security | Space communications

? Quartile:

2025:

? Computer Networks and Communications (Q4, rank 420, percentile 23)
? Electrical and Electronic Engineering (Q4, rank 766, percentile 23)
? Signal Processing (Q4, rank 151, percentile 22)
? Control and Systems Engineering (Q4, rank 316, percentile 17)

2023:

? Electrical and Electronic Engineering (Q4, rank 643, percentile 19)
? Control and Systems Engineering (Q4, rank 268, percentile 16)
? Signal Processing (Q4, rank 111, percentile 15)
? Computer Networks and Communications (Q4, rank 347, percentile 12)

? Source Id: 21100901476

? Author Ids: 7004398165;6701609673;56536292600

? Authoraffiliationids: 60025153;60021859;60025153

? Corresponding: Marchese M.

23.

? Title: The Role of Satellite in 5G and Beyond
? Venue: Signals and Communication Technology
? Year: 2023
? Type: Book Series
? Subtype: Book Chapter
? Citations: 2
? Doi: 10.1007/978-3-031-30762-1_2
? Scopus ID: 2-s2.0-85166110138
? Issn: 18604862
? eISSN: 18604870
? Volume: Part F1069
? Pages: 41-66
? Authors: Marchese Mario; Patrone Fabio; Guidotti Alessandro
? Keywords: 5G | 6G | Beyond 5G | Non-terrestrial networks | Radio access network
? Quartile:

2025:

? Computer Networks and Communications (Q4, rank 420, percentile 23)
? Electrical and Electronic Engineering (Q4, rank 766, percentile 23)
? Signal Processing (Q4, rank 151, percentile 22)
? Control and Systems Engineering (Q4, rank 316, percentile 17)

2023:

? Electrical and Electronic Engineering (Q4, rank 643, percentile 19)
? Control and Systems Engineering (Q4, rank 268, percentile 16)
? Signal Processing (Q4, rank 111, percentile 15)
? Computer Networks and Communications (Q4, rank 347, percentile 12)

? Source Id: 21100901476

? Author Ids: 7004398165;56536292600;56948758400

? Authoraffiliationids: 60025153;60025153;60103966

? Corresponding: Marchese M.

24.

? Title: An SDR-Based Cybersecurity Verification Framework for Smart Agricultural Machines

? Venue: IEEE Access
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 11
? Doi: 10.1109/Access.2023.3282169
? Scopus ID: 2-s2.0-85161519280
? eISSN: 21693536
? Volume: 11
? Pages: 54210-54220
? Authors: Caviglia Roberto; Gaggero Giovanni; Portomauro Giancarlo; Patrone Fabio; Marchese Mario
? Keywords: autonomous machines | cybersecurity | penetration test | Smart agriculture | software defined radio (SDR) | wireless communications
? 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)
2023:
? Engineering (all) (Q1, rank 23, percentile 92)
? Computer Science (all) (Q1, rank 29, percentile 87)
? Materials Science (all) (Q1, rank 77, percentile 83)
? Source Id: 21100374601
? Author Ids: 57700266100;57216708944;15128054100;56536292600;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Caviglia R.

25.

? Title: Performance Evaluation of a Satellite Communication-Based MEC Architecture for IoT Applications
? Venue: IEEE Transactions on Aerospace and Electronic Systems
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 24
? Doi: 10.1109/Taes.2022.3199330
? Scopus ID: 2-s2.0-85136848513
? Issn: 00189251
? eISSN: 15579603
? Volume: 58
? Issue: 5
? Pages: 3775-3785
? Authors: Luglio Michele; Marchese Mario; Patrone Fabio; Roseti Cesare; Zampognaro Francesco
? Keywords: Internet of Things (IoT) | Message Queuing Telemetry Transport (MQTT) | multi-Access edge computing (MEC) | satellite communications (SatCom)
? Quartile:
2025:
? Aerospace Engineering (Q1, rank 11, percentile 93)
? Electrical and Electronic Engineering (Q1, rank 109, percentile 89)
2022:
? Aerospace Engineering (Q1, rank 15, percentile 89)
? Electrical and Electronic Engineering (Q1, rank 119, percentile 83)
? Source Id: 17336

? Author Ids: 7003570928;7004398165;56536292600;15127967700;24484308800
? Authoraffiliationids: 60027509;60025153;60025153;60027509;60027509
? Corresponding: Luglio M.

26.

? Title: Flow Assignment and Processing on a Distributed Edge Computing Platform
? Venue: IEEE Transactions on Vehicular Technology
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 1
? Doi: 10.1109/Tvt.2022.3172792
? Scopus ID: 2-s2.0-85132519369
? Issn: 00189545
? eISSN: 19399359
? Volume: 71
? Issue: 8
? Pages: 8783-8795

? Authors: Davoli Franco; Marchese Mario; Patrone Fabio
? Keywords: 5G | distributed computing | Flow assignment | MEC | resource allocation
? Quartile:

2025:

? Aerospace Engineering (Q1, rank 5, percentile 97)
? Electrical and Electronic Engineering (Q1, rank 63, percentile 93)
? Automotive Engineering (Q1, rank 9, percentile 93)
? Computer Networks and Communications (Q1, rank 38, percentile 93)

2022:

? Aerospace Engineering (Q1, rank 4, percentile 97)
? Automotive Engineering (Q1, rank 4, percentile 96)
? Computer Networks and Communications (Q1, rank 17, percentile 95)
? Electrical and Electronic Engineering (Q1, rank 38, percentile 94)

? Source Id: 17393

? Author Ids: 57220364548;7004398165;56536292600
? Authoraffiliationids: 60025153-60103966;60025153;60025153-60103966
? Corresponding: Davoli F.

27.

? Title: Orbital Edge Offloading on Mega-LEO Satellite Constellations for Equal Access to Computing

? Venue: IEEE Communications Magazine

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 78

? Doi: 10.1109/Mcom.001.2100818

? Scopus ID: 2-s2.0-85128868852

? Issn: 01636804

? eISSN: 15581896

? Volume: 60

? Issue: 4

? Pages: 32-36

? Authors: Cassara Pietro; Gotta Alberto; Marchese Mario; Patrone Fabio

? Quartile:

2025:

? Computer Networks and Communications (Q1, rank 21, percentile 96)
? Electrical and Electronic Engineering (Q1, rank 46, percentile 95)

- ? Computer Science Applications (Q1, rank 63, percentile 93)
2022:
? Computer Science Applications (Q1, rank 9, percentile 98)
? Computer Networks and Communications (Q1, rank 6, percentile 98)
? Electrical and Electronic Engineering (Q1, rank 16, percentile 97)
? Source Id: 17249
? Author Ids: 24767643400;9846429300;7004398165;56536292600
? Authoraffiliationids: 60008218-128037071;60008218-60000251;60025153;60025153
? Corresponding: Cassara P.
28.
? Title: Reduction of the Delays Within an Intrusion Detection System (IDS) Based on Software Defined Networking (SDN)
? Venue: IEEE Access
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 14
? Doi: 10.1109/Access.2022.3214974
? Scopus ID: 2-s2.0-85140779316
? eISSN: 21693536
? Volume: 10
? Pages: 109850-109862
? Authors: Fausto Alessandro; Gaggero Giovanni; Patrone Fabio; Marchese Mario
? Keywords: Cybersecurity | intrusion detection system (IDS) | key performance indicators (KPI) | OpenFlow | software defined networking (SDN)
? 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: 57216708248;57216708944;56536292600;7004398165
? Authoraffiliationids: 60025153-128791506;60025153;60025153;60025153
? Corresponding: Fausto A.
29.
? Title: AI for Zero-Touch Management of Satellite Networks in B5G and 6G Infrastructures
? Venue: Ceur Workshop Proceedings
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Scopus ID: 2-s2.0-85137830247
? Issn: 16130073
? Volume: 3189
? Authors: Galli Antonio; Giardina Pietro; Guta Maria; Lossi Leonardo; Mancina Antonio; Moscato Vincenzo; Patrone Fabio; Roseti Cesare; Romano Simon Pietro; Sperl`o Giancarlo; Zampognaro Francesco
? Keywords: AI/ML resource allocation | data management and orchestration | satellite-terrestrial Integrated networks | smart satellite gateway selection

? Quartile:
2025:
? Computer Science (all) (Q4, rank 214, percentile 11)
2022:
? Computer Science (all) (Q4, rank 184, percentile 21)
? Source Id: 21100218356
? Author Ids: 57210585022;57194397543;55960922300;57219703644;57886464200;8300789300;56536292600;15127967700;7101644319;55510822500;24484308800
? Authoraffiliationids: 118613084;60116408;60031159;60116408;113003886;118613084;60025153;106710821;118613084;118613084;106710821
? Corresponding: Galli A.

30.
? Title: Comparison between UAV IoT solutions with and without satellite backhaul link
? Venue: IEEE Aerospace Conference Proceedings
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1109/Aero53065.2022.9843367
? Scopus ID: 2-s2.0-85137585931
? Issn: 1095323x
? Volume: 2022-March
? Authors: Moheddine Aya; Patrone Fabio; Marchese Mario
? Quartile:
2025:
? Aerospace Engineering (Q3, rank 88, percentile 45)
? Space and Planetary Science (Q3, rank 67, percentile 35)
2022:
? Aerospace Engineering (Q3, rank 82, percentile 40)
? Space and Planetary Science (Q3, rank 69, percentile 32)
? Source Id: 75113
? Author Ids: 57210886858;56536292600;7004398165
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Moheddine A.

31.
? Title: NS-3-based 5G Satellite-Terrestrial Integrated Network Simulator
? Venue: MELECON 2022 IEEE Mediterranean Electrotechnical Conference Proceedings
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 22
? Doi: 10.1109/Melecon53508.2022.9843098
? Scopus ID: 2-s2.0-85136415922
? Pages: 154-159
? Authors: Badini Nour; Marchese Mario; Patrone Fabio
? Keywords: 5G | NS-3 | Satellite-Terrestrial Integrated Networks | System Level Simulator
? Source Id: 21101102123
? Author Ids: 57854682900;7004398165;56536292600
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Badini N.

32.
? Title: A Framework for Network Security Verification of Automated Vehicles in the Agricultural Domain

? Venue: Proceedings of the 2022 26th International Conference Electronics Electronics
2022
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/leeeconf55059.2022.9810440
? Scopus ID: 2-s2.0-85135051185
? Authors: Gaggero Giovanni Battista; Fausto Alessandro; Patrone Fabio; Marchese Mario
? Keywords: Agriculture | Automation | CANbus | Cybersecurity | Verification
? Source Id: 21101098734
? Author Ids: 57216708944;57216708248;56536292600;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gaggero G.B.

33.

? Title: Toward the integration of cyber and physical security monitoring systems for critical infrastructures
? Venue: Sensors
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 26
? DOI: 10.3390/s21216970
? Scopus ID: 2-s2.0-85117331623
? Issn: 14248220
? Volume: 21
? Issue: 21
? Authors: Fausto Alessandro; Gaggero Giovanni Battista; Patrone Fabio; Girdinio Paola; Marchese Mario
? Keywords: Anomaly detection | Critical infrastructure | Cybersecurity | Machine learning | Physical security
? Quartile:

2025:

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

2021:

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

? Source Id: 130124

? Author Ids: 57216708248;57216708944;56536292600;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Fausto A.

34.

? Title: A possible smart metering system evolution for rural and remote areas employing unmanned aerial vehicles and internet of things in smart grids
? Venue: Sensors

? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 33
? DOI: 10.3390/s21051627
? Scopus ID: 2-s2.0-85101391601
? Issn: 14248220
? Volume: 21
? Issue: 5
? Pages: 1-23
? Authors: Gaggero Giovanni Battista; Marchese Mario; Moheddine Aya; Patrone Fabio
? Keywords: Internet of Things | Low Power Wide Area Network | Smart Grid | Smart Metering | UAV
? Quartile:
2025:
? Instrumentation (Q1, rank 19, percentile 90)
? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)
? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)
? Biochemistry (Q1, rank 72, percentile 84)
? Information Systems (Q1, rank 87, percentile 82)
? Analytical Chemistry (Q1, rank 30, percentile 82)
2021:
? Instrumentation (Q1, rank 12, percentile 91)
? Electrical and Electronic Engineering (Q1, rank 134, percentile 81)
? Atomic and Molecular Physics, and Optics (Q1, rank 42, percentile 79)
? Analytical Chemistry (Q1, rank 27, percentile 79)
? Information Systems (Q1, rank 77, percentile 78)
? Biochemistry (Q2, rank 145, percentile 66)
? Source Id: 130124
? Author Ids: 57216708944;7004398165;57210886858;56536292600
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gaggero G.B.

35.
? Title: Data-driven Network Orchestrator for 5G Satellite-Terrestrial Integrated Networks: The ANChOR Project
? Venue: Proceedings IEEE Global Communications Conference Globecom
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 9
? Doi: 10.1109/Globecom46510.2021.9685584
? Scopus ID: 2-s2.0-85184374513
? Issn: 23340983
? eISSN: 25766813
? Authors: Patrone Fabio; Bacci Giacomo; Galli Antonio; Giardina Pietro; Landi Giada; Luglio Michele; Marchese Mario; Quadrini Mattia; Roseti Cesare; Sperli Giancarlo; Vaccaro Attilio; Zampognaro Francesco
? 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: 56536292600;22833244700;57210585022;57194397543;24828948800;7003570928;7004398165;57193276812;15127967700;55510822500;25929694800;24484308800
? Authoraffiliationids: 60025153;113003886;101576099;60116408;60116408;120521552;60025153;120521552;120521552;101576099;113003886;120521552
? Corresponding: Patrone F.

36.

? Title: A Proposal for the Classification of Methods for Verification and Validation of Safety, Cybersecurity, and Privacy of Automated Systems
? Venue: Communications in Computer and Information Science
? Year: 2021
? Type: Book Series
? Subtype: Conference Paper
? Citations: 6
? Doi: 10.1007/978-3-030-85347-1_24
? Scopus ID: 2-s2.0-85115267442
? Issn: 18650929
? eISSN: 18650937
? Volume: 1439 Ccis
? Pages: 325-340
? Authors: de la Vara Jose Luis; Bauer Thomas; Fischer Bernhard; Karaca Mustafa; Madeira Henrique; Matschnig Martin; Mazzini Silvia; Nandi Giann Spilere; Patrone Fabio; Pereira David; Proen^§a Jos^; Schlick Rupert; Tonetta Stefano; Yayan Ugur; Sangchoolie Behrooz
? Keywords: Automated system | Classification | Cybersecurity | Method | Privacy | Safety | V&V | Verification and validation
? Quartile:
2025:
? Mathematics (all) (Q3, rank 287, percentile 30)
? Computer Science (all) (Q4, rank 211, percentile 13)
2021:
? Mathematics (all) (Q3, rank 263, percentile 32)
? Computer Science (all) (Q4, rank 194, percentile 16)
? Source Id: 17700155007
? Author Ids: 24400984100;57197314231;57196706214;57221247822;7004929011;56732951400;55948354000;57208552674;56536292600;56185089900;24067286500;15063379300;18038942400;46061619200;55413889900
? Authoraffiliationids: 60000823;60007411;60098241;126919881;60020985;60098241;101259438;60001350;60025153;60001350;60001350;126798598;60083112;126919881;60107281
? Corresponding: de la Vara J.L.

37.

? Title: A Unified Optimisation Framework for QoS Management and Congestion Control in VHTS Systems
? Venue: IEEE Transactions on Vehicular Technology
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 7
? Doi: 10.1109/Tvt.2020.3015252
? Scopus ID: 2-s2.0-85095710975
? Issn: 00189545
? eISSN: 19399359
? Volume: 69
? Issue: 10
? Pages: 11619-11631

? Authors: De Cola Tomaso; Marchese Mario; Mongelli Maurizio; Patrone Fabio
? Keywords: Congestion control | feeder link outage | QoS management | satellite communications

? Quartile:

2025:

- ? Aerospace Engineering (Q1, rank 5, percentile 97)
- ? Electrical and Electronic Engineering (Q1, rank 63, percentile 93)
- ? Automotive Engineering (Q1, rank 9, percentile 93)
- ? Computer Networks and Communications (Q1, rank 38, percentile 93)

2020:

- ? Subject (Q1, rank 9, percentile 98)
- ? Aerospace Engineering (Q1, rank 3, percentile 98)
- ? Automotive Engineering (Q1, rank 6, percentile 94)
- ? Electrical and Electronic Engineering (Q1, rank 51, percentile 92)

? Source Id: 17393

? Author Ids: 10739364500;7004398165;7005882346;56536292600

? Authoraffiliationids: 60007798;60025153;60021199;60025153

? Corresponding: De Cola T.

38.

? Title: E-CGR: Energy-Aware Contact Graph Routing over Nanosatellite Networks

? Venue: IEEE Transactions on Green Communications and Networking

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 39

? Doi: 10.1109/Tgcn.2020.2978296

? Scopus ID: 2-s2.0-85089595735

? eISSN: 24732400

? Volume: 4

? Issue: 3

? Pages: 890-902

? Authors: Marchese Mario; Patrone Fabio

? Keywords: DTN | nanosatellite communications | remote areas connection | satellite networks

? Quartile:

2025:

- ? Computer Networks and Communications (Q1, rank 22, percentile 96)
- ? Renewable Energy, Sustainability and the Environment (Q1, rank 48, percentile 84)

2020:

- ? Computer Networks and Communications (Q1, rank 38, percentile 88)
- ? Renewable Energy, Sustainability and the Environment (Q1, rank 35, percentile 82)

? Source Id: 21100906361

? Author Ids: 7004398165;56536292600

? Authoraffiliationids: 60025153;60025153

? Corresponding: Marchese M.

39.

? Title: Smart Gateway Diversity Strategies for Q/V Feeder Links in SDN-Satellite Networks

? Venue: 2020 Mediterranean Communication and Computer Networking Conference Medcomnet 2020

? Year: 2020

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? DOI: 10.1109/MedComNet49392.2020.9191584
? Scopus ID: 2-s2.0-85092709233
? Authors: Davoli Franco; Marchese Mario; Patrone Fabio; Cola Tomaso De; Mongelli Maurizio
? Source Id: 21101023310
? Author Ids: 57220364548;7004398165;56536292600;10739364500;7005882346
? Authoraffiliationids: 60025153;60025153;60025153;60007798;60021199
? Corresponding: Davoli F.

40.

? Title: QoS-Aware Handover Strategies for Q/V Feeder Links in VHTS Systems
? Venue: IEEE International Conference on Communications
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/Icc40277.2020.9148805
? Scopus ID: 2-s2.0-85089430667
? Issn: 15503607
? Volume: 2020-June
? Authors: Marchese Mario; Moheddine Aya; Patrone Fabio; Cola Tomaso De; Mongelli Maurizio
? Source Id: 33201
? Author Ids: 7004398165;57210886858;56536292600;10739364500;7005882346
? Authoraffiliationids: 60025153;60025153;60025153;60007798;60021199
? Corresponding: Marchese M.

41.

? Title: Collective Awareness for Abnormality Detection in Connected Autonomous Vehicles
? Venue: IEEE Internet of Things Journal
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 18
? Doi: 10.1109/Jiot.2020.2974680
? Scopus ID: 2-s2.0-85084924836
? eISSN: 23274662
? Volume: 7
? Issue: 5
? Pages: 3774-3789
? Authors: Kanapram Divya Thekke; Patrone Fabio; Marin-Plaza Pablo; Marchese Mario; Bodanese Eliane L.; Marcenaro Lucio; Gomez David Martin; Regazzoni Carlo
? Keywords: Abnormality detection | collective awareness (CA) | connected vehicles | dynamic Bayesian network (DBN) | Markov jump particle filter (MJPF) | self-awareness (SA)
? Quartile:
2025:
? Computer Networks and Communications (Q1, rank 20, percentile 96)
? Hardware and Architecture (Q1, rank 9, percentile 96)
? Signal Processing (Q1, rank 12, percentile 94)
? Computer Science Applications (Q1, rank 62, percentile 93)
? Information Systems (Q1, rank 32, percentile 93)
2020:
? Hardware and Architecture (Q1, rank 2, percentile 99)
? Information Systems (Q1, rank 7, percentile 98)

? Computer Networks and Communications (Q1, rank 8, percentile 97)
? Computer Science Applications (Q1, rank 17, percentile 97)
? Signal Processing (Q1, rank 7, percentile 93)
? Source Id: 21100338350
? Author Ids: 57195512131;56536292600;57190806708;7004398165;6602283934;6603377664;57204878586;35513672400
? Authoraffiliationids:
60025153-60022109;60025153;60001741;60025153;60022109;60025153;60001741;60025153
? Corresponding: Kanapram D.T.

42.

? Title: UAV and Satellite Employment for the Internet of Things Use Case
? Venue: IEEE Aerospace Conference Proceedings
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 11
? Doi: 10.1109/Aero47225.2020.9172701
? Scopus ID: 2-s2.0-85092559710
? Issn: 1095323x
? Authors: Marchese Mario; Moheddine Ava; Patrone Fabio
? Quartile:
2025:
? Aerospace Engineering (Q3, rank 88, percentile 45)
? Space and Planetary Science (Q3, rank 67, percentile 35)
2020:
? Aerospace Engineering (Q3, rank 78, percentile 39)
? Space and Planetary Science (Q3, rank 70, percentile 28)
? Source Id: 75113
? Author Ids: 7004398165;57210886858;56536292600
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Marchese M.

43.

? Title: Nanosatellite-5G integration in the millimeter wave domain: A full top-down approach
? Venue: IEEE Transactions on Mobile Computing
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 43
? Doi: 10.1109/Tmc.2019.2897091
? Scopus ID: 2-s2.0-85078249094
? Issn: 15361233
? eISSN: 15580660
? Volume: 19
? Issue: 2
? Pages: 390-404
? Authors: Babich Fulvio; Comisso Massimiliano; Cuttin Alessandro; Marchese Mario; Patrone Fabio
? Keywords: capture probability | contact graph routing | delay/disruption tolerant network | millimeter-wave | Nanosatellite-5G integration | uncoordinated access
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 60, percentile 94)
? Computer Networks and Communications (Q1, rank 36, percentile 93)

- ? Software (Q1, rank 40, percentile 92)
2020:
? Computer Networks and Communications (Q1, rank 15, percentile 95)
? Software (Q1, rank 21, percentile 94)
? Electrical and Electronic Engineering (Q1, rank 38, percentile 94)
? Source Id: 25038
? Author Ids: 7003613315;13908144400;57193646327;7004398165;56536292600
? Authoraffiliationids: 60018363;60018363;60018363;60025153;60025153
? Corresponding: Babich F.
44.
? Title: Towards Increasing the LoRa Network Coverage: A Flying Gateway
? Venue: 2019 International Symposium on Advanced Electrical and Communication Technologies Isaect 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/Isaect47714.2019.9069697
? Scopus ID: 2-s2.0-85084377455
? Authors: Marchese Mario; Moheddine Aya; Patrone Fabio
? Keywords: IoT | LoRa | LoRaWAN | satellite | UAV
? Source Id: 21100985351
? Author Ids: 7004398165;57210886858;56536292600
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Marchese M.
45.
? Title: UAV and IoT integration: A flying gateway
? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Iicecs 2019
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 30
? Doi: 10.1109/Icecs46596.2019.8965135
? Scopus ID: 2-s2.0-85079158083
? Pages: 121-122
? Authors: Moheddine Aya; Patrone Fabio; Marchese Mario
? Keywords: Arduino | Gateway | IoT | Rak2245 | UAV
? Source Id: 21100944554
? Author Ids: 57210886858;56536292600;7004398165
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Moheddine A.
46.
? Title: Networking challenges for non-terrestrial networks exploitation in 5G
? Venue: IEEE 5g World Forum 5gwf 2019 Conference Proceedings
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 39
? Doi: 10.1109/5gwf.2019.8911669
? Scopus ID: 2-s2.0-85076813904
? Pages: 623-628
? Authors: Bacco Manlio; Davoli Franco; Giambene Giovanni; Gotta Alberto; Luglio Michele; Marchese Mario; Patrone Fabio; Roseti Cesare

? Keywords: Multi-path | Satellite-based hybrid backhaul | Smart gateway diversity | UAV/satellite 5G integration
? Source Id: 21100962470
? Author Ids: 57189197221;57220364548;7003750533;9846429300;7003570928;7004398165;56536292600;15127967700
? Authoraffiliationids: 60085207;60025153;60002838;60085207;60027509;60025153;60025153;60027509
? Corresponding: Bacco M.

47.

? Title: IoT and UAV integration in 5G hybrid terrestrial-satellite networks

? Venue: Sensors Switzerland

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 117

? DOI: 10.3390/s19173704

? Scopus ID: 2-s2.0-85071745275

? Issn: 14248220

? Volume: 19

? Issue: 17

? Authors: Marchese Mario; Moheddine Aya; Patrone Fabio

? Keywords: 5G | IoT | Satellite communications | UAV

? 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: 7004398165;57210886858;56536292600

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Marchese M.

48.

? Title: Small satellites and CubeSats: Survey of structures, architectures, and protocols

? Venue: International Journal of Satellite Communications and Networking

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 84

? DOI: 10.1002/sat.1277

? Scopus ID: 2-s2.0-85052965154

? Issn: 15420973

? eISSN: 15420981

? Volume: 37

? Issue: 4

? Pages: 343-359

? Authors: Davoli Franco; Kourogiorgas Charilaos; Marchese Mario; Panagopoulos Athanasios; Patrone Fabio

? Keywords: CubeSat | CubeSat architecture | CubeSat channel model | CubeSat communication protocols | CubeSat hardware components | CubeSat network

? Quartile:

2025:

? Media Technology (Q2, rank 21, percentile 72)

? Electrical and Electronic Engineering (Q2, rank 374, percentile 62)

2019:

? Media Technology (Q1, rank 11, percentile 85)

? Electrical and Electronic Engineering (Q2, rank 201, percentile 70)

? Source Id: 19924

? Author Ids: 57220364548;41761942100;7004398165;7004006343;56536292600

? Authoraffiliationids: 60025153-60103966;60002947;60025153;60002947;60025153

? Corresponding: Davoli F.

49.

? Title: IoT applications and services in space information networks

? Venue: IEEE Wireless Communications

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 94

? Doi: 10.1109/Mwc.2019.1800297

? Scopus ID: 2-s2.0-85065041414

? Issn: 15361284

? eISSN: 15580687

? Volume: 26

? Issue: 2

? Pages: 31-37

? Authors: Bacco Manlio; Boero Luca; Cassara Pietro; Colucci Marco; Gotta Alberto; Marchese Mario; Patrone Fabio

? Quartile:

2025:

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

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

2019:

? Computer Science Applications (Q1, rank 4, percentile 99)

? Electrical and Electronic Engineering (Q1, rank 8, percentile 98)

? Source Id: 18935

? Author Ids:

57189197221;57053089400;24767643400;57195469786;9846429300;7004398165;56536292600

? Authoraffiliationids:

108104493;108104493;108104493;108104493;108104493;60025153;60025153

? Corresponding: Bacco M.

50.

? Title: Flow Assignment in Multi-Core Network Processors

? Venue: Airo Springer Series

? Year: 2019

? Type: Book Series

? Subtype: Book Chapter

? Citations: 2

? Doi: 10.1007/978-3-030-34960-8_43

? Scopus ID: 2-s2.0-85107048873
? Issn: 25237047
? eISSN: 25237055
? Volume: 3
? Pages: 493-503
? Authors: Davoli Franco; Marchese Mario; Patrone Fabio
? Keywords: Load balancing | Network flow optimization | Virtual network functions
? Quartile:
2025:
? Control and Optimization (Q3, rank 121, percentile 31)
? Computational Mathematics (Q4, rank 169, percentile 18)
? Computer Science Applications (Q4, rank 820, percentile 16)
? Management Science and Operations Research (Q4, rank 194, percentile 12)
? Source Id: 21101047139
? Author Ids: 57220364548;7004398165;56536292600
? Authoraffiliationids: 60025153-60103966;60025153-60103966;60025153-60103966
? Corresponding: Davoli F.

51.
? Title: Satellite Networking Integration in the 5G Ecosystem: Research Trends and Open Challenges
? Venue: IEEE Network
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 130
? Doi: 10.1109/Mnet.2018.1800052
? Scopus ID: 2-s2.0-85054382434
? Issn: 08908044
? eISSN: 1558156X
? Volume: 32
? Issue: 5
? Pages: 9-15
? Authors: Boero Luca; Bruschi Roberto; Davoli Franco; Marchese Mario; Patrone Fabio
? Quartile:
2025:
? Hardware and Architecture (Q1, rank 11, percentile 95)
? Computer Networks and Communications (Q1, rank 31, percentile 94)
? Software (Q1, rank 37, percentile 92)
? Information Systems (Q1, rank 42, percentile 91)
2018:
? Hardware and Architecture (Q1, rank 2, percentile 99)
? Information Systems (Q1, rank 4, percentile 98)
? Computer Networks and Communications (Q1, rank 5, percentile 98)
? Software (Q1, rank 10, percentile 97)
? Source Id: 27239
? Author Ids: 57053089400;8555973600;57220364548;7004398165;56536292600
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Boero L.

52.
? Title: The impact of delay in software-defined integrated terrestrial-satellite networks
? Venue: China Communications
? Year: 2018
? Type: Journal

? Subtype: Article
? Citations: 29
? Doi: 10.1109/Cc.2018.8438270
? Scopus ID: 2-s2.0-85051869483
? Issn: 16735447
? Volume: 15
? Issue: 8
? Pages: 11-21
? Authors: Boero Luca; Marchese Mario; Patrone Fabio
? Keywords: delay estimation | Integrated terrestrial-satellite networks | software defined networking | software defined satellite networks
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 217, percentile 78)
? Computer Networks and Communications (Q1, rank 127, percentile 76)
2018:
? Computer Networks and Communications (Q2, rank 88, percentile 70)
? Electrical and Electronic Engineering (Q2, rank 203, percentile 69)
? Source Id: 19700177325
? Author Ids: 57053089400;7004398165;56536292600
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Boero L.

53.
? Title: Energy-aware Routing Algorithm for DTN-Nanosatellite Networks
? Venue: Proceedings IEEE Global Communications Conference Globecom
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 8
? Doi: 10.1109/Glocom.2018.8647491
? Scopus ID: 2-s2.0-85063532504
? Issn: 23340983
? eISSN: 25766813
? Authors: Marchese Mario; Patrone Fabio
? 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: 7004398165;56536292600
? Authoraffiliationids: 60025153;60025153
? Corresponding: Marchese M.

54.
? Title: A Survey on Network Architectures and Applications for Nanosat and UAV Swarms
? Venue: Lecture Notes of the Institute for Computer Sciences Social Informatics and Telecommunications Engineering Lnicst
? Year: 2018
? Type: Book Series
? Subtype: Conference Paper
? Citations: 23
? Doi: 10.1007/978-3-319-76571-6_8
? Scopus ID: 2-s2.0-85043976241

- ? Issn: 18678211
? Volume: 231
? Pages: 75-85
? Authors: Bacco Manlio; Cassar[^] Pietro; Colucci Marco; Gotta Alberto; Marchese Mario; Patrone Fabio
? Keywords: FANET | Nanosatellite | Network architecture and application | UAV
? Quartile:
2025:
? Computer Networks and Communications (Q4, rank 439, percentile 19)
2018:
? Computer Networks and Communications (Q4, rank 241, percentile 18)
? Source Id: 21100220348
? Author Ids: 57189197221;24767643400;57195469786;9846429300;7004398165;56536292600
? Authoraffiliationids: 60021199;60021199;60021199;60021199;60025153;60025153
? Corresponding: Bacco M.
55.
? Title: DTN-based nanosatellite architecture and hot spot selection algorithm for remote areas connection
? Venue: IEEE Transactions on Vehicular Technology
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 30
? Doi: 10.1109/Tvt.2017.2739298
? Scopus ID: 2-s2.0-85028453407
? Issn: 00189545
? Volume: 67
? Issue: 1
? Pages: 689-702
? Authors: Marchese Mario; Patrone Fabio; Cello Marco
? Keywords: Dtn | Nanosatellite communications | Remote areas connection | Satellite networks | TCP/IP
? Quartile:
2025:
? Aerospace Engineering (Q1, rank 5, percentile 97)
? Electrical and Electronic Engineering (Q1, rank 63, percentile 93)
? Automotive Engineering (Q1, rank 9, percentile 93)
? Computer Networks and Communications (Q1, rank 38, percentile 93)
2018:
? Aerospace Engineering (Q1, rank 3, percentile 97)
? Subject (Q1, rank 12, percentile 97)
? Automotive Engineering (Q1, rank 4, percentile 96)
? Electrical and Electronic Engineering (Q1, rank 56, percentile 91)
? Source Id: 17393
? Author Ids: 7004398165;56536292600;36025044100
? Authoraffiliationids: 60025153;60025153;60021378
? Corresponding: Marchese M.
56.
? Title: A theoretical analysis of buffer occupancy for Intermittently-Connected Networks
? Venue: Performance Evaluation
? Year: 2017
? Type: Journal
? Subtype: Article

- ? Citations: 10
? DOI: 10.1016/j.peva.2017.08.001
? Scopus ID: 2-s2.0-85028807758
? Issn: 01665316
? Volume: 115
? Pages: 108-131
? Authors: Boero L.; Cello M.; Gnecco G.; Marchese M.; Patrone F.; Sanguineti M.
? Keywords: Ad-hoc networks | Congestion control | Epidemic routing | Intermittently-Connected Networks | Markov chains
? Quartile:
2025:
? Modeling and Simulation (Q3, rank 196, percentile 48)
? Computer Networks and Communications (Q3, rank 293, percentile 46)
? Hardware and Architecture (Q3, rank 143, percentile 39)
? Software (Q3, rank 311, percentile 37)
2017:
? Modeling and Simulation (Q2, rank 74, percentile 71)
? Computer Networks and Communications (Q2, rank 95, percentile 66)
? Hardware and Architecture (Q2, rank 61, percentile 60)
? Software (Q2, rank 166, percentile 55)
? Source Id: 22313
? Author Ids: 57053089400;36025044100;22953696000;7004398165;56536292600;7003404992
? Authoraffiliationids: 60025153;60021378;60102060;60025153;60025153;60025153
? Corresponding: Boero L.
- 57.
- ? Title: A Source Routing Algorithm Based on CGR for DTN-Nanosatellite Networks
? Venue: Proceedings IEEE Global Communications Conference Globecom
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 13
? Doi: 10.1109/Glocom.2017.8255092
? Scopus ID: 2-s2.0-85046404054
? Issn: 23340983
? eISSN: 25766813
? Volume: 2018-January
? Pages: 1-6
? Authors: Marchese Mario; Patrone Fabio
? 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: 7004398165;56536292600
? Authoraffiliationids: 60025153;60025153
? Corresponding: Marchese M.
- 58.
- ? Title: ColdSel: A selection algorithm to mitigate congestion situations over nanosatellite networks
? Venue: Proceedings IEEE Global Communications Conference Globecom
? Year: 2016
? Type: Conference Proceeding

? Subtype: Conference Paper
? Citations: 7
? Doi: 10.1109/Glocom.2016.7841670
? Scopus ID: 2-s2.0-85015393984
? Issn: 23340983
? eISSN: 25766813
? Authors: Cello Marco; Marchese Mario; Patrone Fabio
? 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: 36025044100;7004398165;56536292600
? Authoraffiliationids: 60021378-60025153;60025153;60025153
? Corresponding: Cello M.

59.
? Title: Research challenges in nanosatellite-DTN networks
? Venue: Lecture Notes of the Institute for Computer Sciences Social Informatics and Telecommunications Engineering Lnicst
? Year: 2016
? Type: Book Series
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1007/978-3-319-47081-8_8
? Scopus ID: 2-s2.0-84996559034
? Issn: 18678211
? Volume: 148
? Pages: 89-93
? Authors: Cello Marco; Marchese Mario; Patrone Fabio
? Keywords: Congestion control | Delay tolerant network architecture | Nanosatellite network | Next-hop selection
? Quartile:
2025:
? Computer Networks and Communications (Q4, rank 439, percentile 19)
2016:
? Computer Networks and Communications (Q4, rank 204, percentile 17)
? Source Id: 21100220348
? Author Ids: 36025044100;7004398165;56536292600
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Cello M.

60.
? Title: HotSel: A hot spot selection algorithm for internet access in rural areas through nanosatellite networks
? Venue: Proceedings IEEE Global Communications Conference Globecom
? Year: 2015
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 11
? Doi: 10.1109/Glocom.2014.7417202
? Scopus ID: 2-s2.0-84964853741
? Issn: 23340983
? eISSN: 25766813

? Authors: Cello Marco; Marchese Mario; Patrone Fabio

? 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: 36025044100;7004398165;56536292600

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Cello M.

61.

? Title: Hot spot selection in rural access nanosatellite networks

? Venue: Chants 2014 Proceedings of the 9th ACM Mobicom Workshop on Challenged Networks

? Year: 2014

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 5

? Doi: 10.1145/2645672.2645687

? Scopus ID: 2-s2.0-84924054728

? Pages: 69-72

? Authors: Cello Marco; Marchese Mario; Patrone Fabio

? Keywords: Congestion control | Delay tolerant networking | Nanosatellite | Next-hop selection

? Source Id: 21100376811

? Author Ids: 36025044100;7004398165;56536292600

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Cello M.