

GAGGERO GIOVANNI BATTISTA

Overview

- ? Unit: ELE
- ? Role: Ricercatore
- ? Grade: Ricercatore t.d. art. 24 c. 3 lett. A Legge 240/10 (t.pieno)
- ? SSD: IIET-01/A (Elettrotecnica)
- ? Scopus ID: 57216708944
- ? Unige Id: 381014
- ? Retrieved at: 2025-11-14T15:14:33.712537

Contact

- ? Email: giovanni.gaggero@unige.it
- ? Page: <https://rubrica.unige.it/personale/VktGW1tt>
- ? Locations: Opera Pia - padiglione C (Ex CNR) (ED161450501), 3° piano, US161450501.III.018

Career

- ? Dr, 2018-11-01 ? 2021-10-31
- ? Ar, 2021-11-02 ? 2023-06-30
- ? Rd, 2023-07-01 ? 2026-06-30

Teaching

2024

- ? Compatibilit^ Elettromagnetica (56558), Lm-28 - Ingegneria Elettrica

2023

- ? Compatibilit^ Elettromagnetica (56558), Lm-28 - Ingegneria Elettrica

Scopus Metrics

- ? absolute; Docs: 35; Journals: 21; Conferences: 12; Citations: 269; H-index: 10
- ? 15 years (2010-2025); Docs: 35; Journals: 21; Conferences: 12; Citations: 269; H-index: 10
- ? 10 years (2015-2025); Docs: 35; Journals: 21; Conferences: 12; Citations: 269; H-index: 10
- ? 05 years (2020-2025); Docs: 34; Journals: 21; Conferences: 11; Citations: 262; H-index: 10

Scopus Products

1.

- ? Title: Towards privacy-preserving anomaly-based intrusion detection in energy communities
- ? Venue: Energy Informatics
- ? Year: 2025
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 0
- ? DOI: 10.1186/s42162-025-00565-x
- ? Scopus ID: 2-s2.0-105014634588
- ? eISSN: 25208942
- ? Volume: 8
- ? Issue: 1
- ? Authors: Afzal Zeeshan; Gaggero Giovanni; Asplund Mikael
- ? Keywords: Cyber security | Distributed energy resources | Energy communities |

Intrusion detection | Machine learning | Smart grid

? Quartile:

2025:

? Computer Networks and Communications (Q2, rank 157, percentile 71)

? Information Systems (Q2, rank 155, percentile 68)

? Energy Engineering and Power Technology (Q2, rank 106, percentile 67)

? Source Id: 21101048366

? Author Ids: 56705229700;57216708944;22978610300

? Authoraffiliationids: 60009358;60025153;60009358

? Corresponding: Afzal Z.

2.

? 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.

3.

? Title: Photo-Set: A Proposed Dataset and Benchmark for Physics-Based Cybersecurity Monitoring in Photovoltaic Systems ?

? Venue: Energies

? Year: 2025

? Type: Journal

? Subtype: Article

? Citations: 0

? DOI: 10.3390/en18195318

? Scopus ID: 2-s2.0-105018907042

? eISSN: 19961073

? Volume: 18

? Issue: 19

? Authors: Mokarim Afroz; Gaggero Giovanni Battista; Ferro Giulio; Robba Michela; Girdinio Paola; Marchese Mario

? Keywords: anomaly detection | cybersecurity | dataset | distributed energy resources | photovoltaic | smart grid

? Quartile:

2025:

- ? Control and Optimization (Q1, rank 11, percentile 94)
- ? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
- ? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
- ? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
- ? Fuel Technology (Q2, rank 40, percentile 70)
- ? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
- ? Energy (miscellaneous) (Q2, rank 39, percentile 64)

? Source Id: 62932

? Author Ids: 57210415425;57216708944;57062015700;7004979187;7003430835;7004398165

? Authoraffiliationids: 60025153;60025153;60121711;60121711;60025153;60025153

? Corresponding: Mokarim A.

4.

? 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;60021199

? Corresponding: De Bernardi G.

5.

? Title: Cybersecurity Issues in Electrical Protection Relays: A Systematic Review

? Venue: Energies

? Year: 2025

? Type: Journal

? Subtype: Review

? Citations: 0

? DOI: 10.3390/en18143796

? Scopus ID: 2-s2.0-105011621726

? eISSN: 19961073

? Volume: 18

? Issue: 14

? Authors: Gaggero Giovanni Battista; Girdinio Paola; Marchese Mario

? Keywords: cyber security | electrical protection | protection relay | review

? Quartile:

2025:

? Control and Optimization (Q1, rank 11, percentile 94)
? Engineering (miscellaneous) (Q1, rank 38, percentile 86)
? Electrical and Electronic Engineering (Q1, rank 155, percentile 84)
? Energy Engineering and Power Technology (Q1, rank 71, percentile 78)
? Fuel Technology (Q2, rank 40, percentile 70)
? Renewable Energy, Sustainability and the Environment (Q2, rank 110, percentile 64)
? Energy (miscellaneous) (Q2, rank 39, percentile 64)
? Source Id: 62932
? Author Ids: 57216708944;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Gaggero G.B.

6.

? Title: Photo-Set: A Dataset for Physics-Based Cybersecurity Monitoring in Photovoltaic Systems
? Venue: IFAC Papersonline
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? DOI: 10.1016/j.ifacol.2025.08.109
? Scopus ID: 2-s2.0-105016566527
? Issn: 24058971
? eISSN: 24058963
? Volume: 59
? Issue: 9
? Pages: 37-42
? Authors: Mokarim Afroz; Gaggero Giovanni Battista; Ferro Giulio; Robba Michela; Marchese Mario
? Keywords: anomaly detection | cybersecurity | Dataset | photovoltaic | smart grid
? Quartile:
2025:
? Control and Systems Engineering (Q3, rank 218, percentile 42)
? Source Id: 21100456158
? Author Ids: 57210415425;57216708944;57062015700;7004979187;7004398165
? Authoraffiliationids: 60025153;60025153;60121711;60121711;60025153
? Corresponding: Mokarim A.

7.

? Title: Artificial Intelligence and Physics-Based Anomaly Detection in the Smart Grid: A Survey
? Venue: IEEE Access
? Year: 2025
? Type: Journal
? Subtype: Review
? Citations: 16
? Doi: 10.1109/Access.2025.3537410
? Scopus ID: 2-s2.0-85217069329
? eISSN: 21693536
? Volume: 13
? Pages: 23597-23606
? Authors: Gaggero Giovanni Battista; Girdinio Paola; Marchese Mario
? Keywords: AI | anomaly detection | physics-based anomaly detection | Review | smart grid
? 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)
? Source Id: 21100374601
? Author Ids: 57216708944;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Gaggero G.B.

8.

? Title: A Security Operation and Event Management (SOEM) Platform for Critical Infrastructures Protection
? Venue: Computers Materials and Continua
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? DOI: 10.32604/cmc.2025.068509
? Scopus ID: 2-s2.0-105020024502
? Issn: 15462218
? eISSN: 15462226
? Volume: 85
? Issue: 3
? Pages: 5327-5340
? Authors: Caviglia Roberto; Aliaskharov Daniyar; Aceti Alessio; Preda Mila Dalla; Girdinio Paola; Gaggero Giovanni Battista
? Keywords: Cybersecurity | intrusion detection | monitoring | SIEM | SOC
? Quartile:
2025:
? Modeling and Simulation (Q1, rank 54, percentile 85)
? Electrical and Electronic Engineering (Q2, rank 254, percentile 74)
? Mechanics of Materials (Q2, rank 117, percentile 71)
? Computer Science Applications (Q2, rank 279, percentile 71)
? Biomaterials (Q2, rank 66, percentile 54)
? Source Id: 24364
? Author Ids: 57700266100;60159359300;58609673600;60056635500;7003430835;57216708944
? Authoraffiliationids: 133312116;60025153;133312116;60032256;60025153;60025153
? Corresponding: Caviglia R.

9.

? Title: Securing Virtual Power Plants: Attack Vector Analysis of Cybersecurity Vulnerabilities in Ancillary Grid Services
? Venue: IEEE Open Journal of the Industrial Electronics Society
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? Doi: 10.1109/Ojies.2025.3622528
? Scopus ID: 2-s2.0-105019589039
? eISSN: 26441284
? Authors: Mokarim Afroz; Gaggero Giovanni Battista; Marchese Mario
? Keywords: ancillary services | attack vectors | cybersecurity | Distributed Energy Resources (DERs) | time-critical services | Virtual Power Plants (VPPs) | vulnerabilities
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 148, percentile 85)

- ? Industrial and Manufacturing Engineering (Q1, rank 62, percentile 84)
? Control and Systems Engineering (Q1, rank 61, percentile 84)
? Source Id: 21101068036
? Author Ids: 57210415425;57216708944;7004398165
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Mokarim A.
10.
? Title: Integration of Forensic Analysis and Event Data Recorders in Automotive Regulation: A Proposed Approach
? 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/Csr64739.2025.11130098
? Scopus ID: 2-s2.0-105016266981
? Pages: 795-800
? Authors: Soomro Faraz Bashir; Caviglia Roberto; Gaggero Giovanni Battista; Djihadi Mageni; Marchese Mario
? Keywords: Automotive Cybersecurity | Digital Forensics | Event Data Recorder (EDR) | UNECE WP. 29 R155 | UNECE WP. 29 R160
? Source Id: 21101331270
? Author Ids: 60102852400;57700266100;57216708944;60102775600;7004398165
? Authoraffiliationids: 60025153-130228801;60025153-130228801;60025153;60025153;60025153
? Corresponding: Soomro F.B.
11.
? 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.
12.
? Title: Should We Include Cyberdefense Functionalities in Electrical Power System Protections?: A Proposed Approach
? Venue: IEEE Industrial Electronics Magazine
? Year: 2025

? Type: Journal
? Subtype: Article
? Citations: 5
? Doi: 10.1109/Mie.2024.3416907
? Scopus ID: 2-s2.0-105004023864
? Issn: 19324529
? eISSN: 19410115
? Volume: 19
? Issue: 1
? Pages: 10-16
? Authors: Gaggero Giovanni Battista; Mokarim Afroz; Girdinio Paola; Marchese Mario
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 92, percentile 90)
? Industrial and Manufacturing Engineering (Q1, rank 47, percentile 88)
? Source Id: 5800207505
? Author Ids: 57216708944;57210415425;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gaggero G.B.

13.

? Title: From microgrids to virtual power plants: A cybersecurity perspective
? Venue: Iot Enabled Dc Microgrids Architecture Algorithms Applications and Technologies
? Year: 2024
? Type: Book
? Subtype: Book Chapter
? Citations: 1
? Scopus ID: 2-s2.0-85206234694
? Pages: 103-120
? Authors: Gaggero Giovanni; Piser^ Diego; Girdinio Paola; Silvestro Federico; Marchese Mario
? Source Id: 21101253473
? Author Ids: 57216708944;57226694852;7003430835;23026343700;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Gaggero G.

14.

? Title: Impact Analysis of Cyber Attacks against Energy Communities in Distribution Grids
? Venue: Electronics Switzerland
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 6
? DOI: 10.3390/electronics13091709
? Scopus ID: 2-s2.0-85192729998
? eISSN: 20799292
? Volume: 13
? Issue: 9
? Authors: Mokarim Afroz; Gaggero Giovanni Battista; Marchese Mario
? Keywords: cyber attack | European low-voltage test feeder | load demand | power manipulation | renewable energy communities
? 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)

2024:

? Electrical and Electronic Engineering (Q1, rank 228, percentile 76)
? Signal Processing (Q1, rank 44, percentile 76)
? Control and Systems Engineering (Q1, rank 93, percentile 75)
? Computer Networks and Communications (Q2, rank 137, percentile 73)
? Hardware and Architecture (Q2, rank 62, percentile 72)
? Source Id: 21100829272
? Author Ids: 57210415425;57216708944;7004398165
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Mokarim A.

15.

? Title: Toward a Security Operation Center for Operational Technology in Industrial Networks
? Venue: 2024 IEEE International Workshop on Technologies for Defense and Security Techdefense 2024 Proceedings
? Year: 2024
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? DOI: 10.1109/TechDefense63521.2024.10863654
? Scopus ID: 2-s2.0-85218337379
? Pages: 160-164
? Authors: Gaggero Giovanni Battista; Caviglia Roberto; Girdinio Paola; Marchese Mario
? Source Id: 21101276067
? Author Ids: 57216708944;57700266100;7003430835;7004398165
? Authoraffiliationids: 60025153-100505222;60025153-130228801-100505222;60025153-100505222;60025153-100505222
? Corresponding: Gaggero G.B.

16.

? Title: An IEC 62443-Based Framework for Secure-by-Design Energy Communities
? Venue: IEEE Access
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 5
? Doi: 10.1109/Access.2024.3492316
? Scopus ID: 2-s2.0-85209085879
? eISSN: 21693536
? Volume: 12
? Pages: 166320-166332
? Authors: Gaggero Giovanni Battista; Armellin Alessandro; Girdinio Paola; Marchese Mario
? Keywords: cybersecurity | Energy community | security by design | smart grid
? Quartile:
2025:
? Engineering (all) (Q1, rank 42, percentile 88)
? Computer Science (all) (Q1, rank 41, percentile 83)
? Materials Science (all) (Q1, rank 101, percentile 78)
2024:
? Engineering (all) (Q1, rank 32, percentile 90)

? Computer Science (all) (Q1, rank 33, percentile 86)
? Materials Science (all) (Q1, rank 87, percentile 81)
? Source Id: 21100374601
? Author Ids: 57216708944;57699327800;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153-128824789;60025153;60025153
? Corresponding: Gaggero G.B.

17.

? Title: A Framework for the Deployment of Cybersecurity Monitoring Tools in the Industrial Environment
? Venue: IT Professional
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 6
? Doi: 10.1109/Mitp.2024.3396356
? Scopus ID: 2-s2.0-85206497978
? Issn: 15209202
? eISSN: 1941045X
? Volume: 26
? Issue: 4
? Pages: 62-70
? Authors: Armellin Alessandro; Caviglia Roberto; Gaggero Giovanni; Marchese Mario
? Quartile:
2025:
? Computer Science Applications (Q2, rank 349, percentile 64)
? Software (Q2, rank 187, percentile 62)
? Hardware and Architecture (Q2, rank 88, percentile 62)
2024:
? Computer Science Applications (Q2, rank 331, percentile 65)
? Hardware and Architecture (Q2, rank 82, percentile 63)
? Software (Q2, rank 186, percentile 62)
? Source Id: 25053
? Author Ids: 57699327800;57700266100;57216708944;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Armellin A.

18.

? Title: Are IDS Violating Segmentation in Industrial Networks?
? 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/Csr61664.2024.10679425
? Scopus ID: 2-s2.0-85206212466
? Pages: 45-49
? Authors: Gaggero Giovanni Battista; Caviglia Roberto; Girdinio Paola; Marchese Mario
? Keywords: IEC 62443 | Industrial Control System | Intrusion Detection System | Network Segmentation
? Source Id: 21101253086
? Author Ids: 57216708944;57700266100;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153-130228801;60025153;60025153
? Corresponding: Gaggero G.B.

19.

- ? Title: BESS-Set: A Dataset for Cybersecurity Monitoring in a Battery Energy Storage System
? Venue: IEEE Open Access Journal of Power and Energy
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 5
? Doi: 10.1109/Oajpe.2024.3439856
? Scopus ID: 2-s2.0-85200813502
? eISSN: 26877910
? Volume: 11
? Pages: 362-372
? Authors: Battista Gaggero Giovanni; Armellin Alessandro; Ferro Giulio; Robba Michela; Girdinio Paola; Marchese Mario
? Keywords: anomaly detection | cybersecurity | Dataset | distributed energy resources | smart grid | storage
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 222, percentile 77)
? Energy Engineering and Power Technology (Q2, rank 89, percentile 72)
2024:
? Electrical and Electronic Engineering (Q1, rank 183, percentile 81)
? Energy Engineering and Power Technology (Q2, rank 76, percentile 74)
? Source Id: 21101059747
? Author Ids: 57216708944;57699327800;57062015700;7004979187;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153;60121711;60121711;60025153;60025153
? Corresponding: Battista Gaggero G.
20.
? 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
? Corresponding: Caviglia R.
21.
? Title: Industrial Control System-Anomaly Detection Dataset (ICS-ADD) for Cyber-Physical Security Monitoring in Smart Industry Environments
? Venue: IEEE Access
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 19

? Doi: 10.1109/Access.2024.3395991
? Scopus ID: 2-s2.0-85192180205
? eISSN: 21693536
? Volume: 12
? Pages: 64140-64149
? Authors: Gaggero Giovanni Battista; Armellin Alessandro; Portomauro Giancarlo; Marchese Mario
? Keywords: cyber-events dataset | cybersecurity | Industrial control system | open source | OSSIM | smart industry | Suricata
? Quartile:
2025:
? Engineering (all) (Q1, rank 42, percentile 88)
? Computer Science (all) (Q1, rank 41, percentile 83)
? Materials Science (all) (Q1, rank 101, percentile 78)
2024:
? Engineering (all) (Q1, rank 32, percentile 90)
? Computer Science (all) (Q1, rank 33, percentile 86)
? Materials Science (all) (Q1, rank 87, percentile 81)
? Source Id: 21100374601
? Author Ids: 57216708944;57699327800;15128054100;7004398165
? Authoraffiliationids: 60025153;60025153-128824789;60025153;60025153
? Corresponding: Gaggero G.B.

22.

? Title: Integrating OT data in SIEM platforms: an Energy Utility Perspective
? Venue: 4th International Conference on Electrical Communication and Computer Engineering Iccce 2023
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 8
? Doi: 10.1109/Iccce61019.2023.10442554
? Scopus ID: 2-s2.0-85187220481
? Authors: Armellin Alessandro; Gaggero Giovanni Battista; Cattelino Alessandro; Piana Loris; Raggi Stefano; Marchese Mario
? Keywords: Cybersecurity | Energy Utility | Operational Technology | SIEM
? Source Id: 21101206195
? Author Ids: 57699327800;57216708944;57929518600;58928510300;58928435200;7004398165
? Authoraffiliationids: 60025153-128824789;60025153;128824789;128824789;128824789;60025153
? Corresponding: Armellin A.

23.

? Title: Evaluation of the Impact of Cyber-Attacks Against Electric Vehicle Charging Stations in a Low Voltage Distribution Grid
? Venue: 2023 IEEE International Conference on Communications Control and Computing Technologies for Smart Grids Smartgridcomm 2023 Proceedings
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 9
? DOI: 10.1109/SmartGridComm57358.2023.10333896
? Scopus ID: 2-s2.0-85179139824
? Authors: Mokarim Afroz; Gaggero Giovanni Battista; Marchese Mario
? Keywords: Cyber attacks | distribution grid | electric vehicle charging stations | low-voltage

? Source Id: 21101194357

? Author Ids: 57210415425;57216708944;7004398165

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Mokarim A.

24.

? Title: SPAT: A Testbed for Automotive Cybersecurity Training

? Venue: Proceedings of the 2023 IEEE International Conference on Cyber Security and Resilience Csr 2023

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Csr57506.2023.10224967

? Scopus ID: 2-s2.0-85171733782

? Pages: 381-386

? Authors: Caviglia Roberto; Gaggero Giovanni Battista; Vincis Nicola; Morando Omar; Aceti Alessio; Marchese Mario

? Keywords: automotive | CANBus | cybersecurity | testbed | training

? Source Id: 21101178243

? Author Ids: 57700266100;57216708944;58609323200;57222380530;58609673600;7004398165

? Authoraffiliationids:

60025153-130228801;60025153;130228801;130228801;130228801;60025153

? Corresponding: Caviglia R.

25.

? 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.

26.

? Title: Novel Cybersecurity Issues in Smart Energy Communities
? Venue: 1st International Conference in Advanced Innovation on Smart City Icaisc 2023 Proceedings
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 13
? Doi: 10.1109/Icaisc56366.2023.10085312
? Scopus ID: 2-s2.0-85153051667
? Authors: Gaggero Giovanni Battista; Piser^ Diego; Girdinio Paola; Silvestro Federico; Marchese Mario
? Keywords: Cybersecurity | Energy Community | Smart Grid
? Source Id: 21101147411
? Author Ids: 57216708944;57226694852;7003430835;23026343700;7004398165
? Authoraffiliationids: 60025153;60025153-126318742;60025153;60025153;60025153
? Corresponding: Gaggero G.B.

27.

? Title: Detecting Cyberattacks on Electrical Storage Systems through Neural Network Based Anomaly Detection Algorithm

? Venue: Sensors

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 21

? DOI: 10.3390/s22103933

? Scopus ID: 2-s2.0-85130394047

? Issn: 14248220

? Volume: 22

? Issue: 10

? Authors: Gaggero Giovanni Battista; Caviglia Roberto; Armellin Alessandro; Rossi Mansueto; Girdinio Paola; Marchese Mario

? Keywords: anomaly detection | autoencoder | cybersecurity | distributed energy resources | electrical battery storage systems | neural network

? Quartile:

2025:

? Instrumentation (Q1, rank 19, percentile 90)

? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)

? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)

? Biochemistry (Q1, rank 72, percentile 84)

? Information Systems (Q1, rank 87, percentile 82)

? Analytical Chemistry (Q1, rank 30, percentile 82)

2022:

? Instrumentation (Q1, rank 18, percentile 87)

? Electrical and Electronic Engineering (Q1, rank 146, percentile 80)

? Atomic and Molecular Physics, and Optics (Q1, rank 47, percentile 77)

? Analytical Chemistry (Q1, rank 32, percentile 77)

? Information Systems (Q1, rank 87, percentile 77)

? Biochemistry (Q2, rank 151, percentile 64)

? Source Id: 130124

? Author Ids: 57216708944;57700266100;57699327800;7403708681;7003430835;7004398165

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

? Corresponding: Gaggero G.B.

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: Cybersecurity Issues in Communication-Based Electrical Protections

? Venue: International Conference on Electrical Computer and Energy Technologies Icetecet

2022

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 7

? Doi: 10.1109/Icecel55527.2022.9873081

? Scopus ID: 2-s2.0-85138917455

? Authors: Gaggero Giovanni Battista; Rossi Mansueto; Girdinio Paola; Marchese Mario

? Keywords: cybersecurity | electrical protection | IEC 62351 | microgrid | smart grid

? Source Id: 21101110203

? Author Ids: 57216708944;7403708681;7003430835;7004398165

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Gaggero G.B.

30.

? 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.

31.

? 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.

32.

? Title: Advancements and research trends in microgrids cybersecurity
? Venue: Applied Sciences Switzerland
? Year: 2021
? Type: Journal
? Subtype: Review
? Citations: 21
? DOI: 10.3390/app11167363
? Scopus ID: 2-s2.0-85112518826
? eISSN: 20763417
? Volume: 11
? Issue: 16

? Authors: Gaggero Giovanni Battista; Girdinio Paola; Marchese Mario
? Keywords: Anomaly detection | Cybersecurity | Intrusion detection systems (IDS) | Resiliency | Smart microgrids | Software defined networking (SDN)

? 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)

2021:

- ? Engineering (all) (Q2, rank 81, percentile 73)
- ? Instrumentation (Q2, rank 52, percentile 62)
- ? Computer Science Applications (Q2, rank 301, percentile 59)
- ? Fluid Flow and Transfer Processes (Q2, rank 37, percentile 58)
- ? Materials Science (all) (Q2, rank 219, percentile 51)
- ? Process Chemistry and Technology (Q3, rank 32, percentile 48)

? Source Id: 21100829268

? Author Ids: 57216708944;7003430835;7004398165

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Gaggero G.B.

33.

? 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.

34.

? Title: Detecting system fault/cyberattack within a photovoltaic system connected to the grid: A neural network-based solution
? Venue: Journal of Sensor and Actuator Networks
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 20
? DOI: 10.3390/jsan9020020
? Scopus ID: 2-s2.0-85084829746
? eISSN: 22242708
? Volume: 9
? Issue: 2
? Authors: Gaggero Giovanni Battista; Rossi Mansueto; Girdinio Paola; Marchese Mario
? Keywords: Anomaly detection | Autoencoder | Cyber-security | Distributed energy resources | Neural networks | Photovoltaic systems
? Quartile:
2025:
? Control and Optimization (Q1, rank 6, percentile 96)
? Instrumentation (Q1, rank 12, percentile 93)
? Computer Networks and Communications (Q1, rank 61, percentile 88)
2020:
? Instrumentation (Q1, rank 8, percentile 94)
? Control and Optimization (Q1, rank 12, percentile 89)
? Computer Networks and Communications (Q1, rank 59, percentile 82)
? Source Id: 21100830709
? Author Ids: 57216708944;7403708681;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gaggero G.B.

35.

? Title: Neural network architecture to detect system faults / cyberattacks anomalies within a photovoltaic system connected to the grid
? 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/Isaect47714.2019.9069683
? Scopus ID: 2-s2.0-85084343224
? Authors: Gaggero Giovanni Battista; Rossi Mansueto; Girdinio Paola; Marchese Mario
? Keywords: anomaly detection | industrial systems | neural networks
? Source Id: 21100985351
? Author Ids: 57216708944;7403708681;7003430835;7004398165
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Gaggero G.B.