

## BONFIGLIO ANDREA

### Overview

? Unit: ELE  
? Role: Professore associato  
? Grade: Prof.Associato Legge 240/10 - t.pieno - classe 0  
? SSD: IIND-08/B (Sistemi elettrici per l'energia)  
? Scopus ID: 36607521000  
? Unige Id: 282635  
? Retrieved at: 2025-11-14T15:15:18.417081

### Contact

? Email: a.bonfiglio@unige.it  
? Phone: +39 010 33 52730  
? Page: <https://rubrica.unige.it/personale/V0tFXVls>  
? Locations: Opera Pia - padiglione D (ED161450401), 1° piano, US161450401.I.029

### Career

? Cb, 2012-11-13 ? 2013-02-22  
? Ar, 2013-03-01 ? 2017-04-30  
? Rd, 2017-05-01 ? 2023-11-30  
? Pa, 2023-12-01 ? 2222-02-02

### Responsibilities

? Title: Coordinatore di Corso di studio  
? Unit: Consiglio Dei Corsi Di Studio In Ingegneria Elettrica  
? Period: 2025-11-01 ? 2028-10-31  
  
? Title: Componente della Commissione paritetica docenti-studenti di scuola  
? Unit: Scuola politecnica  
? Period: 2025-11-01 ? 2027-10-31

### Teaching

#### 2025

? Sistemi Elettrici Industriali (86832), Lm-28 - Ingegneria Elettrica  
? Sistemi Elettrici Industriali (86832), Lm-28 - Ingegneria Elettrica  
? Shipboard Power Systems (101131), L-28 - Maritime Science And Technology  
? Elementi Di Impianti Elettrici E Misure Industriali (107806), L-P03 - Tecnologie Industriali  
? Elementi Di Sicurezza Dell'Ambiente E Del Lavoro (117955), L-P03 - Tecnologie Industriali  
? Power Systems Analysis (118101), Lm-28 - Electrical Engineering For Energy Transition

#### 2024

? Sistemi Elettrici Industriali (86832), Lm-28 - Ingegneria Elettrica  
? Shipboard Power Systems (101131), L-28 - Maritime Science And Technology  
? Elementi Di Impianti Elettrici E Misure Industriali (107806), L-P03 - Tecnologie Industriali

#### 2023

? Sistemi Elettrici Industriali (86832), Lm-28 - Ingegneria Elettrica  
? Shipboard Power Systems (101131), L-28 - Maritime Science And Technology  
? Elementi Di Impianti Elettrici E Misure Industriali (107806), L-P03 - Tecnologie Industriali

2022

- ? Sistemi Elettrici Industriali (86832), Lm-28 - Ingegneria Elettrica
- ? Shipboard Power Systems (101131), L-28 - Maritime Science And Technology
- ? Elementi Di Impianti Elettrici E Misure Industriali (107806), L-P03 - Tecnologie Industriali

2021

- ? Sistemi Elettrici Industriali (86832), Lm-28 - Ingegneria Elettrica
- ? Power Systems Modelling And Control (65887), Lm-30 - Energy Engineering
- ? Shipboard Power Systems (101131), L-28 - Maritime Science And Technology

2020

- ? Sistemi Elettrici Industriali (86832), Lm-28 - Ingegneria Elettrica
- ? Power Systems Modelling And Control (65887), Lm-30 - Energy Engineering
- ? Shipboard Power Systems (101131), L-28 - Maritime Science And Technology

#### Scopus Metrics

- ? absolute; Docs: 110; Journals: 48; Conferences: 62; Citations: 1514; H-index: 26
- ? 15 years (2010-2025); Docs: 108; Journals: 48; Conferences: 60; Citations: 1511; H-index: 26
- ? 10 years (2015-2025); Docs: 91; Journals: 46; Conferences: 45; Citations: 1159; H-index: 20
- ? 05 years (2020-2025); Docs: 56; Journals: 26; Conferences: 30; Citations: 379; H-index: 12

#### Scopus Products

1.

- ? Title: A pattern recognition based tool for smart distribution networks reconfiguration
- ? Venue: Electric Power Systems Research
- ? Year: 2025
- ? Type: Journal
- ? Subtype: Article
- ? Citations: 2
- ? DOI: 10.1016/j.epsr.2025.111890
- ? Scopus ID: 2-s2.0-105007289954
- ? Issn: 03787796
- ? Volume: 248
- ? Authors: Bonfiglio Andrea; La Fata Alice; Minetti Manuela
- ? Keywords: Distribution grids | Energy transition | Pattern recognition | Renewable energy sources integration
- ? Quartile:  
2025:
  - ? Electrical and Electronic Engineering (Q1, rank 126, percentile 87)
  - ? Energy Engineering and Power Technology (Q1, rank 60, percentile 81)
- ? Source Id: 16044
- ? Author Ids: 36607521000;57434749400;57210474295
- ? Authoraffiliationids: 60025153;60025153;60025153
- ? Corresponding: Bonfiglio A.

2.

- ? Title: Analytical load flow solution for radial distribution networks
- ? Venue: Sustainable Energy Grids and Networks
- ? Year: 2025

? Type: Journal  
? Subtype: Article  
? Citations: 0  
? DOI: 10.1016/j.segan.2025.101871  
? Scopus ID: 2-s2.0-105012395346  
? eISSN: 23524677  
? Volume: 43  
? Authors: Minetti Manuela; Procopio Renato; Bonfiglio Andrea  
? Keywords: Analytical load flow | Load flow analysis | Radial power distribution networks | Voltage drop formula  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 131, percentile 86)  
? Control and Systems Engineering (Q1, rank 52, percentile 86)  
? Energy Engineering and Power Technology (Q1, rank 63, percentile 80)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 71)  
? Source Id: 21100371258  
? Author Ids: 57210474295;7801615894;36607521000  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Minetti M.

- 3.
- ? Title: The Impact of Energy Communities Virtual Islanding on the Integration of Renewables in Distribution Power Systems  
? Venue: Energies  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? DOI: 10.3390/en18154084  
? Scopus ID: 2-s2.0-105013092575  
? eISSN: 19961073  
? Volume: 18  
? Issue: 15  
? Authors: Bonfiglio Andrea; Bruno Sergio; La Fata Alice; Martino Maria; Procopio Renato; Velini Angelo  
? Keywords: distribution system operation | energy transition | grid services | renewable energy communities | Virtual Islanding  
? 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: 36607521000;7101968133;57434749400;59210049100;7801615894;59210230800  
? Authoraffiliationids: 60025153;60027299;60025153;60025153;60025153;60027299  
? Corresponding: Bonfiglio A.

- 4.
- ? Title: Optimal inertia allocation in future transmission networks: A case study on the Italian grid  
? Venue: Sustainable Energy Grids and Networks

? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 3  
? DOI: 10.1016/j.segan.2025.101676  
? Scopus ID: 2-s2.0-86000324666  
? eISSN: 23524677  
? Volume: 42  
? Authors: Minetti Manuela; Fresia Matteo; Procopio Renato; Bonfiglio Andrea; Denegri Gio Battista; Lisciandrello Giuseppe; Orrì, Luca  
? Keywords: Grid Flexibilization | System Inertia | Transmission System  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 131, percentile 86)  
? Control and Systems Engineering (Q1, rank 52, percentile 86)  
? Energy Engineering and Power Technology (Q1, rank 63, percentile 80)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 71)  
? Source Id: 21100371258  
? Author Ids:  
57210474295;57224008583;7801615894;36607521000;7004649825;57219972273;57220190197  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60122257;60122257  
? Corresponding: Minetti M.

5.

? Title: Integrated Vehicle-to-Building and Vehicle-to-Home Services for Residential and Worksite Microgrids  
? Venue: Smart Cities  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 2  
? DOI: 10.3390/smartcities8030101  
? Scopus ID: 2-s2.0-105009265177  
? eISSN: 26246511  
? Volume: 8  
? Issue: 3  
? Authors: Bonfiglio Andrea; Minetti Manuela; Loggia Riccardo; Mascioli Lorenzo Frattale; Golino Andrea; Moscatiello Cristina; Martirano Luigi  
? Keywords: electric vehicle | microgrids | vehicle to building | vehicle to home | virtual storage partitioning  
? Quartile:  
2025:  
? Urban Studies (Q1, rank 5, percentile 98)  
? Electrical and Electronic Engineering (Q1, rank 64, percentile 93)  
? Artificial Intelligence (Q1, rank 56, percentile 88)  
? Source Id: 21101068929  
? Author Ids:  
36607521000;57210474295;57490153900;58867232000;59965456100;57193652333;6602297955  
? Authoraffiliationids: 60025153;60025153;60032350;60032350;60032350;60032350;60032350  
? Corresponding: Bonfiglio A.

6.

? Title: Renewable energy communities virtual islanding: A decentralized service to improve distribution grid security  
? Venue: Sustainable Energy Grids and Networks  
? Year: 2025

? Type: Journal  
? Subtype: Article  
? Citations: 3  
? DOI: 10.1016/j.segan.2025.101700  
? Scopus ID: 2-s2.0-105001489606  
? eISSN: 23524677  
? Volume: 42  
? Authors: Velini Angelo; Minetti Manuela; Bruno Sergio; Bonfiglio Andrea; Procopio Renato; La Scala Massimo  
? Keywords: Distribution system operation | Energy transition | Grid services | Renewable energy communities | Virtual islanding  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 131, percentile 86)  
? Control and Systems Engineering (Q1, rank 52, percentile 86)  
? Energy Engineering and Power Technology (Q1, rank 63, percentile 80)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 71)  
? Source Id: 21100371258  
? Author Ids: 59210230800;57210474295;7101968133;36607521000;7801615894;56962766200  
? Authoraffiliationids: 60027299;60025153;60027299;60025153;60025153;60027299  
? Corresponding: Velini A.

7.

? Title: Synthetic inertia estimation in the presence of measurement noise and delays: An application to wind turbine generators  
? Venue: International Journal of Electrical Power and Energy Systems  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 0  
? DOI: 10.1016/j.ijepes.2025.110511  
? Scopus ID: 2-s2.0-85217714961  
? Issn: 01420615  
? Volume: 166  
? Authors: Baruzzi Valentina; Rosini Alessandro; Lodi Matteo; Bonfiglio Andrea; Oliveri Alberto  
? Keywords: Real-time simulations | Synthetic inertia | Wind turbine generator  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 57, percentile 94)  
? Energy Engineering and Power Technology (Q1, rank 25, percentile 92)  
? Source Id: 17985  
? Author Ids: 57216455935;57204050700;57200266678;36607521000;57200399832  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Baruzzi V.

8.

? Title: Exploring the role of Energy Communities: A Comprehensive Review  
? Venue: Energy Conversion and Management X  
? Year: 2025  
? Type: Journal  
? Subtype: Review  
? Citations: 3  
? DOI: 10.1016/j.ecmx.2025.100883  
? Scopus ID: 2-s2.0-85215245402  
? eISSN: 25901745

? Volume: 25  
? Authors: Amin M. Asim; Procopio Renato; Invernizzi Marco; Bonfiglio Andrea; Jia Youwei  
? Keywords: Energy community | Energy decentralization | Machine learning | Microgrids | Renewable energy  
? Quartile:  
2025:  
? Nuclear Energy and Engineering (Q1, rank 6, percentile 93)  
? Energy Engineering and Power Technology (Q1, rank 41, percentile 87)  
? Fuel Technology (Q1, rank 27, percentile 80)  
? Renewable Energy, Sustainability and the Environment (Q1, rank 66, percentile 78)  
? Source Id: 21100896269  
? Author Ids: 57201246575;7801615894;6701527755;36607521000;55511359100  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60105683  
? Corresponding: Amin M.A.

9.  
? Title: Impact of Inverter-Based Resources on Inertia Provision and RoCoF Limitation  
? Venue: 2025 IEEE Kiel Powertech Powertech 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.1109/PowerTech59965.2025.11180735  
? Scopus ID: 2-s2.0-105019295943  
? Authors: Fresia Matteo; Bonfiglio Andrea; Procopio Renato; Lisciandrello Giuseppe; Orr^, Luca; Pisani Cosimo  
? Keywords: Frequency support | Inverter-Based sources | Renewable energy sources | RoCoF | Synthetic inertia  
? Source Id: 21101341419  
? Author Ids: 57224008583;36607521000;7801615894;57219972273;57220190197;55370719100  
? Authoraffiliationids: 60025153;60025153;60025153;60122257;60122257;60122257  
? Corresponding: Fresia M.

10.  
? Title: Assessment of Power Generators Disturbance Response Compliancy to Grid Code Requirements  
? Venue: 2025 IEEE Kiel Powertech Powertech 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.1109/PowerTech59965.2025.11180729  
? Scopus ID: 2-s2.0-105019291954  
? Authors: Minetti Manuela; Osama Khalid; Tuckey Andrew; Bonfiglio Andrea  
? Keywords: Disturbance response | Grid codes | Inverter based source | Settling time evaluation | Synchronous generator  
? Source Id: 21101341419  
? Author Ids: 57210474295;60103566900;59016060200;36607521000  
? Authoraffiliationids: 60025153;128429246;128429246;127836471  
? Corresponding: Minetti M.

11.  
? Title: A Survey of Measurements and Analyses of Preliminary Breakdown Pulses in Lightning Flashes  
? Venue: Conference Proceedings 2025 IEEE International Conference on Environment and Electrical Engineering and 2025 IEEE Industrial and Commercial Power Systems Europe

Eeeic I and Cps Europe 2025

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.1109/EEEIC/ICPSEurope64998.2025.11169198

? Scopus ID: 2-s2.0-105019062078

? Authors: Barmada Sami; Bonfiglio Andrea; Brignone Massimo; Dodge Shayan; Formisano Alessandro; Procopio Renato; Sekehravani Ehsan Akbari

? Keywords: Data Analysis | Lightning | Lightning Measurments | Preliminary Breakdown Pulses | Return Stroke

? Source Id: 21101340466

? Author Ids:

7004111796;36607521000;8580886100;59426639600;7003786952;7801615894;57216979388

? Authoraffiliationids: 60028868;60025153;60025153;60028868;60026777;60025153;60001111

? Corresponding: Barmada S.

12.

? Title: Energy Optimization Algorithms Integrated in Residential Microgrid With PV, Storage and EVS

? Venue: Conference Proceedings 2025 IEEE International Conference on Environment and Electrical Engineering and 2025 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2025

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.1109/EEEIC/ICPSEurope64998.2025.11169204

? Scopus ID: 2-s2.0-105019046875

? Authors: Mascioli Lorenzo Frattale; Golino Andrea; Menichelli Roberto; Loggia Riccardo; Moscatiello Cristina; Falvo Maria Carmen; Bonfiglio Andrea; Minetti Manuela; Martirano Luigi

? Keywords: battery energy storage | home energy management system | microgrid | self-consumption | vehicle-to-grid

? Source Id: 21101340466

? Author Ids: 58867232000;59965456100;59470683100;57490153900;57193652333;15622947700;36607521000;57210474295;6602297955

? Authoraffiliationids:

60032350;60032350;60032350;60032350;60032350;60025153;60025153;60032350

? Corresponding: Mascioli L.F.

13.

? Title: Reinforcement Learning Algorithms to Optimize the Integration of Electric Vehicle Services Into Power Systems

? Venue: Conference Proceedings 2025 IEEE International Conference on Environment and Electrical Engineering and 2025 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2025

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.1109/EEEIC/ICPSEurope64998.2025.11169060

? Scopus ID: 2-s2.0-105019041183

? Authors: Bonfiglio Andrea; La Fata Alice; Loggia Riccardo; Martirano Luigi; Minetti Manuela

? Keywords: Reinforcement Learning | Vehicle-to-Grid | Vehicle-to-Home

? Source Id: 21101340466  
? Author Ids: 36607521000;60145491200;57490153900;6602297955;57210474295  
? Authoraffiliationids: 60025153;60025153;108398862;108398862;60025153  
? Corresponding: Bonfiglio A.

14.

? Title: A Microgrid Test-Bed Architecture for Integrated Energy Systems Experimental Testing  
? Venue: Conference Proceedings 2025 IEEE International Conference on Environment and Electrical Engineering and 2025 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.1109/EEEIC/ICPSEurope64998.2025.11169197  
? Scopus ID: 2-s2.0-105019039902  
? Authors: Bonfiglio Andrea; Bracco Stefano; Procopio Renato; Robba Michela; Rossi Mansueto  
? Keywords: advanced control strategies | energy management systems | laboratory prototype | Microgrid  
? Source Id: 21101340466  
? Author Ids: 36607521000;15049159900;7801615894;7004979187;7403708681  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

15.

? Title: The Impact of Vehicle to Home Services on Electric Vehicles Total Cost of Ownership  
? Venue: Conference Proceedings 2025 IEEE International Conference on Environment and Electrical Engineering and 2025 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.1109/EEEIC/ICPSEurope64998.2025.11169020  
? Scopus ID: 2-s2.0-105019039867  
? Authors: Bonfiglio Andrea; Loggia Riccardo; Martino Maria; Martirano Luigi; Minetti Manuela  
? Keywords: Total Cost of Ownership | Vehicle to Home | Virtual Partitioning Algorithm  
? Source Id: 21101340466  
? Author Ids: 36607521000;57490153900;59210049100;6602297955;57210474295  
? Authoraffiliationids: 60025153;108398862;60025153;108398862;60025153  
? Corresponding: Bonfiglio A.

16.

? Title: An Efficient Power Dispatching Strategy to Cope with Renewable Energy Sources Uncertainties  
? Venue: Conference Proceedings 2025 IEEE International Conference on Environment and Electrical Engineering and 2025 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? DOI: 10.1109/EEEIC/ICPSEurope64998.2025.11169234



? Scopus ID: 2-s2.0-105019038019  
? Authors: Fata Alice La; Amin M. Asim; Brignone Massimo; Invernizzi Marco; Bonfiglio Andrea; Procopio Renato  
? Keywords: Energy Management System | Photovoltaic Forecasting | Receding Horizon Procedure | Recurrent Neural Network  
? Source Id: 21101340466  
? Author Ids: 57434749400;57201246575;8580886100;6701527755;36607521000;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Fata A.L.

17.

? Title: Vehicle-to-Grid and Vehicle-to-Building Systems Integrated in Smart Infrastructures: A Comprehensive Review of Technologies, Challenges and Opportunities  
? Venue: 2025 International Conference on Clean Electrical Power Icccep 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Icccep65222.2025.11143653  
? Scopus ID: 2-s2.0-105016625608  
? Pages: 631-645  
? Authors: Mascioli Lorenzo Frattale; Golino Andrea; Loggia Riccardo; Bonfiglio Andrea; Minetti Manuela; Palma Alessandro Lorenzo; Moscatiello Cristina; Falvo Maria Carmen; Martirano Luigi  
? Keywords: electric vehicle | machine learning | V2G | V2X | vehicle-to-everything | vehicle-to-grid  
? Source Id: 21101333300  
? Author Ids: 58867232000;59965456100;57490153900;36607521000;57210474295;56448077100;57193652333;15622947700;6602297955  
? Authoraffiliationids: 60032350;60032350;60032350;60025153;60025153;60019637;60032350;60032350;60032350  
? Corresponding: Mascioli L.F.

18.

? Title: Assessment of the Impact of HVDC Links on Frequency Containment Capacity in a Portion of the Italian Transmission Network  
? Venue: 2025 Aeit Hvdc International Conference Aeit Hvdc 2025  
? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Aeithvdc66044.2025.11079478  
? Scopus ID: 2-s2.0-105012574256  
? Authors: Bonfiglio Andrea; Fresia Matteo; Giannuzzi Giorgio Maria; Invernizzi Marco; Lisciandrello Giuseppe; Orr^, Luca; Pisani Cosimo; Procopio Renato; Rinzo Giovanni  
? Keywords: Frequency Containment | HVDC | Inverter-based Resources | Primary Frequency Regulation | Primary Regulating Energy  
? Source Id: 21101318126  
? Author Ids: 36607521000;57224008583;25936117900;6701527755;57219972273;57220190197;55370719100;7801615894;57201200193  
? Authoraffiliationids: 60025153;60025153;60122257;60025153;60122257;60122257;60122257;60025153;60122257  
? Corresponding: Bonfiglio A.

19.

? Title: A Machine Learning Algorithm to Minimize Distribution Lines Overloads  
? Venue: Conference Record Industrial and Commercial Power Systems Technical Conference

? Year: 2025  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/lcps64254.2025.11030361  
? Scopus ID: 2-s2.0-105009073851  
? Issn: 21584893  
? eISSN: 21584907  
? Authors: Bonfiglio Andrea; La Fata Alice; Minetti Manuela  
? Keywords: Distribution Grids | Machine Learning | Network Reconfiguration | Renewable Energy Sources  
? Quartile:  
2025:  
? Engineering (all) (Q3, rank 177, percentile 49)  
? Source Id: 21101233878  
? Author Ids: 36607521000;57434749400;57210474295  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

20.

? Title: Vehicle-to-Home Service via Electric Vehicle Energy Storage Virtual Partitioning  
? Venue: IEEE Transactions on Industry Applications  
? Year: 2025  
? Type: Journal  
? Subtype: Article  
? Citations: 5  
? Doi: 10.1109/Tia.2025.3556807  
? Scopus ID: 2-s2.0-105002620196  
? Issn: 00939994  
? eISSN: 19399367  
? Volume: 61  
? Issue: 5  
? Pages: 7790-7802  
? Authors: Bonfiglio Andrea; Minetti Manuela; Procopio Renato  
? Keywords: Electric storage | electric vehicles | energy transition | vehicle to home | virtual storage partitioning  
? Quartile:  
2025:  
? Control and Systems Engineering (Q1, rank 38, percentile 90)  
? Electrical and Electronic Engineering (Q1, rank 102, percentile 89)  
? Industrial and Manufacturing Engineering (Q1, rank 49, percentile 88)  
? Source Id: 17361  
? Author Ids: 36607521000;57210474295;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

21.

? Title: On the model flexibility of the geographical distributed real-time co-simulation: The example of ENET-RT lab  
? Venue: Sustainable Energy Grids and Networks  
? Year: 2024  
? Type: Journal  
? Subtype: Article  
? Citations: 8  
? DOI: 10.1016/j.segan.2024.101501

? Scopus ID: 2-s2.0-85202997495

? eISSN: 23524677

? Volume: 40

? Authors: Mazza A.; Benedetto G.; Pons E.; Bompard E.; De Paola A.; Thomas D.; Kotsakis E.; Fulli G.; Vogel S.; Acosta Gil A.; Monti A.; Bruno S.; Iurlaro C.; La Scala M.; Bonfiglio A.; Cepollini P.; D'Agostino F.; Invernizzi M.; Rossi M.; Silvestro F.; De Caro F.; Giannoccaro G.; Villacci D.

? Keywords: Control-in-the-loop | Frequency control | Power hardware-in-the-loop | Real time co-simulation | Software-in-the-loop

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 131, percentile 86)

? Control and Systems Engineering (Q1, rank 52, percentile 86)

? Energy Engineering and Power Technology (Q1, rank 63, percentile 80)

? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 71)

2024:

? Electrical and Electronic Engineering (Q1, rank 122, percentile 87)

? Control and Systems Engineering (Q1, rank 52, percentile 86)

? Energy Engineering and Power Technology (Q1, rank 53, percentile 82)

? Renewable Energy, Sustainability and the Environment (Q2, rank 77, percentile 74)

? Source Id: 21100371258

? Author Ids: 55375438700;57945789200;11339101500;6602152775;55605029400;57188994200;6508183852;55924499600;57016169800;56669354800;57203094797;7101968133;57218844607;56962766200;36607521000;59312112400;56553864200;6701527755;7403708681;23026343700;57197856138;52263394500;6602560464

? Authoraffiliationids: 60012162;60012162;60012162;60012162;60103695;60103695;60103695;60103695;130347437;60016653;60016653;60027299;60027299;60027299;60025153;60025153;60025153;60025153;60004300;60017293;60017293

? Corresponding: Mazza A.

22.

? Title: Frequency and voltage communication-less control for islanded AC microgrids: Experimental validation via rapid control prototyping

? Venue: International Journal of Electrical Power and Energy Systems

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 0

? DOI: 10.1016/j.ijepes.2024.110313

? Scopus ID: 2-s2.0-85207651148

? Issn: 01420615

? Volume: 162

? Authors: Rosini Alessandro; Petronijevi? Milutin; Filipovi? Filip; Bonfiglio Andrea; Procopio Renato

? Keywords: Experimental Validation | Grid Feeding Inverters | Grid Forming Inverters | Islanded Microgrids | Photovoltaic-Storage Systems | Sliding Mode Control

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 57, percentile 94)

? Energy Engineering and Power Technology (Q1, rank 25, percentile 92)

2024:

? Electrical and Electronic Engineering (Q1, rank 52, percentile 94)

? Energy Engineering and Power Technology (Q1, rank 27, percentile 91)

? Source Id: 17985

? Author Ids: 57204050700;14422928500;57209321092;36607521000;7801615894

? Authoraffiliationids: 60025153;60068806;60068806;60025153;60025153

? Corresponding: Rosini A.

23.

? Title: Design, realization and testing of a synthetic inertia controller for wind turbine power generators

? Venue: Sustainable Energy Grids and Networks

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 7

? DOI: 10.1016/j.segan.2023.101234

? Scopus ID: 2-s2.0-85183574846

? eISSN: 23524677

? Volume: 38

? Authors: Bonfiglio Andrea; Lodi Matteo; Rosini Alessandro; Oliveri Alberto; Procopio Renato

? Keywords: FPGA | Synthetic inertia | Wind turbine generator

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 131, percentile 86)

? Control and Systems Engineering (Q1, rank 52, percentile 86)

? Energy Engineering and Power Technology (Q1, rank 63, percentile 80)

? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 71)

2024:

? Electrical and Electronic Engineering (Q1, rank 122, percentile 87)

? Control and Systems Engineering (Q1, rank 52, percentile 86)

? Energy Engineering and Power Technology (Q1, rank 53, percentile 82)

? Renewable Energy, Sustainability and the Environment (Q2, rank 77, percentile 74)

? Source Id: 21100371258

? Author Ids: 36607521000;57200266678;57204050700;57200399832;7801615894

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

? Corresponding: Bonfiglio A.

24.

? Title: A Techno-Economic Assessment to Define Inertia Needs of the Italian Transmission Network in the 2030 Energy Scenario

? Venue: IEEE Transactions on Power Systems

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 17

? Doi: 10.1109/Tpwsr.2023.3331178

? Scopus ID: 2-s2.0-85177074761

? Issn: 08858950

? eISSN: 15580679

? Volume: 39

? Issue: 3

? Pages: 5050-5061

? Authors: Fresia Matteo; Minetti Manuela; Rosini Alessandro; Procopio Renato; Bonfiglio Andrea; Invernizzi Marco; Denegri Gio Battista; Lisciandrello Giuseppe; Orru Luca

? Keywords: Grid flexibilization | system inertia | transmission system

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 36, percentile 96)

? Energy Engineering and Power Technology (Q1, rank 17, percentile 94)

2024:

? Electrical and Electronic Engineering (Q1, rank 39, percentile 96)

? Energy Engineering and Power Technology (Q1, rank 18, percentile 94)

? Source Id: 28825

? Author Ids: 57224008583;57210474295;57204050700;7801615894;36607521000;6701527755;7004649825;57219972273;57220190197

? Authoraffiliationids:

60025153;60025153;60025153;60025153;60025153;60025153;60122257;60122257

? Corresponding: Fresia M.

25.

? Title: Load Flow Assignments? Definition from Day-Ahead Electricity Market  
Interconnection Power Flows: A Study for Transmission Networks

? Venue: Energies

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 7

? DOI: 10.3390/en17061391

? Scopus ID: 2-s2.0-85188744843

? eISSN: 19961073

? Volume: 17

? Issue: 6

? Authors: Fresia Matteo; Minetti Manuela; Procopio Renato; Bonfiglio Andrea;  
Lisciandrello Giuseppe; Orr^, Luca

? Keywords: grid flexibilization | load flow | optimization algorithm | transmission  
system

? 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)

2024:

? Control and Optimization (Q1, rank 15, percentile 90)

? Engineering (miscellaneous) (Q1, rank 39, percentile 85)

? Electrical and Electronic Engineering (Q1, rank 173, percentile 82)

? Energy Engineering and Power Technology (Q1, rank 73, percentile 75)

? Fuel Technology (Q2, rank 38, percentile 71)

? Energy (miscellaneous) (Q2, rank 32, percentile 68)

? Renewable Energy, Sustainability and the Environment (Q2, rank 105, percentile 64)

? Source Id: 62932

? Author Ids: 57224008583;57210474295;7801615894;36607521000;57219972273;57220190197

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60122257;60122257

? Corresponding: Fresia M.

26.

? Title: Problem-Based Learning Activity for Electrical Engineering: Unconventional  
Load Flow Assignments

? Venue: 2024 7th IEEE International Humanitarian Technologies Conference Ihtc 2024

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ihtc61819.2024.10855021  
? Scopus ID: 2-s2.0-85217848478  
? Authors: Minetti Manuela; Bonfiglio Andrea  
? Keywords: Engineering education | Jigsaw | Synchronous Machines models | Transient stability  
? Source Id: 21101274824  
? Author Ids: 57210474295;36607521000  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Minetti M.

27.

? Title: A Dynamic Controller for Reactive Power and Voltage Regulation in Islanded Microgrids  
? Venue: IEEE Power and Energy Society General Meeting  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Pesgm51994.2024.10761100  
? Scopus ID: 2-s2.0-85212697988  
? Issn: 19449925  
? eISSN: 19449933  
? Authors: Minetti Manuela; Bonfiglio Andrea; Procopio Renato; Fresia Matteo  
? Keywords: droop control | Grid-Supporting inverter | Microgrid | primary regulation | reactive power sharing  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 622, percentile 37)  
? Nuclear Energy and Engineering (Q3, rank 53, percentile 37)  
? Energy Engineering and Power Technology (Q3, rank 208, percentile 36)  
? Renewable Energy, Sustainability and the Environment (Q3, rank 232, percentile 25)  
2024:  
? Nuclear Energy and Engineering (Q3, rank 53, percentile 34)  
? Electrical and Electronic Engineering (Q3, rank 682, percentile 29)  
? Energy Engineering and Power Technology (Q3, rank 215, percentile 28)  
? Renewable Energy, Sustainability and the Environment (Q4, rank 238, percentile 20)  
? Source Id: 20600195623  
? Author Ids: 57210474295;36607521000;7801615894;57224008583  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Minetti M.

28.

? Title: Techno-Economic Strategies to Define Inertia Needs in Future Transmission Networks  
? Venue: Proceedings 24th Eeeic International Conference on Environment and Electrical Engineering and 8th I and Cps Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2024  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? DOI: 10.1109/EEEIC/ICPSEurope61470.2024.10751291  
? Scopus ID: 2-s2.0-85211899858  
? Authors: Fresia Matteo; Bonfiglio Andrea; Procopio Renato; Lisciandrello Giuseppe;

Orr<sup>^</sup>, Luca

? Keywords: Inverter-based generations | Synthetic Inertia | transmission networks

? Source Id: 21101263912

? Author Ids: 57224008583;36607521000;7801615894;57219972273;57220190197

? Authoraffiliationids: 60025153;60025153;60025153;60122257;60122257

? Corresponding: Fresia M.

29.

? Title: Electric Vehicle Battery Virtual Partitioning Algorithm for Residential Vehicle-to-Home Service

? Venue: 2024 International Conference on Smart Energy Systems and Technologies Driving the Advances for Future Electrification Sest 2024 Proceedings

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 2

? Doi: 10.1109/Sest61601.2024.10694541

? Scopus ID: 2-s2.0-85207661354

? Authors: Bonfiglio Andrea; Minetti Manuela; Procopio Renato

? Keywords: Electric Storage | Energy Transition | Vehicle to Home | Virtual Storage Partitioning

? Source Id: 21101256226

? Author Ids: 36607521000;57210474295;7801615894

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Bonfiglio A.

30.

? Title: Optimal Sizing of Battery Energy Storage Systems for Renewable Energy Integration in Energy Communities

? Venue: Proceedings 2024 11th International Conference on Electrical Electronic and Computing Engineering Iccetran 2024

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? DOI: 10.1109/IcETRAN62308.2024.10645110

? Scopus ID: 2-s2.0-85204074005

? Authors: Minetti Manuela; Bonfiglio Andrea; Procopio Renato; Petronijevic Milutin P.; Radonjic Ivana

? Keywords: Battery Energy Storage System | Curtailment | Optimal Sizing | Renewable Energy Community

? Source Id: 21101248521

? Author Ids: 57210474295;36607521000;7801615894;14422928500;55197295400

? Authoraffiliationids: 60025153;60025153;60025153;60068806;60068806

? Corresponding: Minetti M.

31.

? Title: Power Systems Modelling and Digital Twins for Real Time Simulations

? Venue: 2024 IEEE 22nd Mediterranean Electrotechnical Conference MELECON 2024

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Melecon56669.2024.10608662

? Scopus ID: 2-s2.0-85201733359

? Pages: 162-167

? Authors: Minetti Manuela; Bonfiglio Andrea; Benfatto Ivone; Yulong Ye; Fresia Matteo

? Keywords: Digital Twin | Power System modeling | Real Time simulation  
? Source Id: 21101243574  
? Author Ids: 57210474295;36607521000;6603638168;58487135800;57224008583  
? Authoraffiliationids: 60025153;60025153;60002062;60002062;60025153  
? Corresponding: Minetti M.

32.

? Title: RoCoF Mitigation in the Italian Transmission Network: a Methodology for Inertia Optimization  
? Venue: 2024 IEEE 22nd Mediterranean Electrotechnical Conference MELECON 2024  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 7  
? Doi: 10.1109/Melecon56669.2024.10608532  
? Scopus ID: 2-s2.0-85201729726  
? Pages: 424-429  
? Authors: Fresia Matteo; Minetti Manuela; Bonfiglio Andrea; Procopio Renato; Lisciandrello Giuseppe; Orr^, Luca  
? Keywords: Grid Flexibilization | System Inertia | Transmission System  
? Source Id: 21101243574  
? Author Ids: 57224008583;57210474295;36607521000;7801615894;57219972273;57220190197  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60122257;60122257  
? Corresponding: Fresia M.

33.

? Title: Vehicle-to-Home Service Via Electric Vehicle Energy Storage Virtual Partitioning  
? Venue: Conference Record Industrial and Commercial Power Systems Technical Conference  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/lcps60943.2024.10563283  
? Scopus ID: 2-s2.0-85197917872  
? Issn: 21584893  
? eISSN: 21584907  
? Authors: Bonfiglio Andrea; Minetti Manuela; Procopio Renato  
? Keywords: Electric Storage | Electric Vehicles | Energy Transition | Vehicle to Home | Virtual Storage Partitioning  
? Quartile:  
2025:  
? Engineering (all) (Q3, rank 177, percentile 49)  
2024:  
? Engineering (all) (Q3, rank 251, percentile 27)  
? Source Id: 21101233878  
? Author Ids: 36607521000;57210474295;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

34.

? Title: Renewable Energy Communities Virtual Islanding: A Novel Service for Smart Distribution Networks  
? Venue: Conference Record Industrial and Commercial Power Systems Technical Conference  
? Year: 2024  
? Type: Conference Proceeding  
? Subtype: Conference Paper



? Citations: 18  
? Doi: 10.1109/lcps60943.2024.10563712  
? Scopus ID: 2-s2.0-85197900030  
? Issn: 21584893  
? eISSN: 21584907  
? Authors: Bonfiglio Andrea; Bruno Sergio; Martino Maria; Minetti Manuela; Procopio Renato; Velini Angelo  
? Keywords: Distribution System Operation | Energy Transition | Grid Services | Renewable Energy Communities | Virtual Islanding  
? Quartile:  
2025:  
? Engineering (all) (Q3, rank 177, percentile 49)  
2024:  
? Engineering (all) (Q3, rank 251, percentile 27)  
? Source Id: 21101233878  
? Author Ids: 36607521000;7101968133;59210049100;57210474295;7801615894;59210230800  
? Authoraffiliationids: 60025153;60027299;60025153;60025153;60025153;60027299  
? Corresponding: Bonfiglio A.

35.

? Title: Strategies for Real-Time Simulation of Central Solenoid ITER Power Supply Digital Twin  
? Venue: Energies  
? Year: 2023  
? Type: Journal  
? Subtype: Article  
? Citations: 15  
? DOI: 10.3390/en16135107  
? Scopus ID: 2-s2.0-85164833668  
? eISSN: 19961073  
? Volume: 16  
? Issue: 13  
? Authors: Minetti Manuela; Bonfiglio Andrea; Benfatto Ivone; Yulong Ye  
? Keywords: decoupling lines | digital twin | explicit partitioning | ITER power supply | real-time simulation  
? 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)  
2023:  
? Control and Optimization (Q1, rank 19, percentile 85)  
? Engineering (miscellaneous) (Q1, rank 36, percentile 82)  
? Electrical and Electronic Engineering (Q2, rank 200, percentile 74)  
? Energy Engineering and Power Technology (Q2, rank 78, percentile 71)  
? Fuel Technology (Q2, rank 40, percentile 69)  
? Energy (miscellaneous) (Q2, rank 25, percentile 68)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 103, percentile 62)  
? Source Id: 62932  
? Author Ids: 57210474295;36607521000;6603638168;58487135800  
? Authoraffiliationids: 60025153;60025153;60002062;60002062

- ? Corresponding: Minetti M.
- 36.
- ? Title: A Sliding Mode based Controller for No Inertia Islanded Microgrids
- ? Venue: Proceedings of 22nd International Symposium on Power Electronics Ee 2023
- ? Year: 2023
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 0
- ? DOI: 10.1109/Ee59906.2023.10346188
- ? Scopus ID: 2-s2.0-85182027405
- ? Authors: Procopio Renato; Bonfiglio Andrea; Rosini Alessandro; Petronijevic Milutin; Filipovic Filip; Incremona Gian Paolo; Ferrara Antonella
- ? Keywords: Frequency and voltage control | Islanded Microgrids | Sliding Mode Control
- ? Source Id: 21101196083
- ? Author Ids:  
7801615894;36607521000;57204050700;14422928500;57209321092;55933915900;55845601700
- ? Authoraffiliationids: 60025153;60025153;60025153;60068806;60068806;60023256;60015197
- ? Corresponding: Procopio R.
- 37.
- ? Title: Supporting a 'Glocal' Energy Transition: from Local Energy Communities to Global Simulation Networks
- ? Venue: 2023 International Conference on Smart Energy Systems and Technologies Sest 2023
- ? Year: 2023
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 5
- ? Doi: 10.1109/Sest57387.2023.10257451
- ? Scopus ID: 2-s2.0-85174247594
- ? Authors: Benedetto G.; Mazza A.; Pons E.; Bompard E.; De Paola A.; Thomas D.; Kotsakis E.; Fulli G.; Vogel S.; Monti A.; Bruno S.; Giannoccaro G.; Scala M. La; Bonfiglio A.; Invernizzi M.; Rossi M.; De Caro F.; Villacci D.
- ? Keywords: Control-in-the-Loop | Frequency Control | Power Hardware-in-the-Loop | Real Time Co-simulation | Software-in-the-Loop
- ? Source Id: 21101183461
- ? Author Ids: 57945789200;55375438700;11339101500;6602152775;55605029400;57188994200;6508183852;55924499600;57016169800;57203094797;7101968133;52263394500;56962766200;36607521000;6701527755;7403708681;57197856138;6602560464
- ? Authoraffiliationids: 60003066;60003066;60003066;60003066;60103695;60103695;60103695;60103695;130347437;60016653;60027299;60027299;60027299;60025153;60025153;60025153;60004300;60017293
- ? Corresponding: Benedetto G.
- 38.
- ? Title: Inertia Requirements Assessment for the Italian Transmission Network in the Future Network Scenario
- ? Venue: 2023 IEEE Belgrade Powertech Powertech 2023
- ? Year: 2023
- ? Type: Conference Proceeding
- ? Subtype: Conference Paper
- ? Citations: 23
- ? DOI: 10.1109/PowerTech55446.2023.10202846
- ? Scopus ID: 2-s2.0-85169473933
- ? Authors: Bonfiglio Andrea; Fresia Matteo; Minetti Manuela; Procopio Renato; Rosini Alessandro; Lisciandrello Giuseppe; Orr^, Luca

? Keywords: Grid Flexibilization | System Inertia | Transmission System

? Source Id: 21101175266

? Author Ids:

36607521000;57224008583;57210474295;7801615894;57204050700;57219972273;57220190197

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60122257;60122257

? Corresponding: Bonfiglio A.

39.

? Title: A Comprehensive Sliding Mode Approach for Photovoltaic-Storage Islanded Microgrids

? Venue: 2023 IEEE Belgrade Powertech Powertech 2023

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? DOI: 10.1109/PowerTech55446.2023.10202864

? Scopus ID: 2-s2.0-85169440078

? Authors: Bonfiglio Andrea; Procopio Renato; Rosini Alessandro; Incremona Gian Paolo; Ferrara Antonella

? Keywords: Grid Feeding Converters | Grid Forming Converters | Islanded Microgrid | Sliding Mode Control

? Source Id: 21101175266

? Author Ids: 36607521000;7801615894;57204050700;55933915900;55845601700

? Authoraffiliationids: 60025153;60025153;60025153;60023256;60015197

? Corresponding: Bonfiglio A.

40.

? Title: On the use of frequency in the primary control of fully inverter based islanded microgrids

? Venue: International Journal of Electrical Power and Energy Systems

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 6

? DOI: 10.1016/j.ijepes.2022.108438

? Scopus ID: 2-s2.0-85132530451

? Issn: 01420615

? Volume: 143

? Authors: Rosini Alessandro; Procopio Renato; Bonfiglio Andrea

? Keywords: Grid feeding inverters | Grid forming inverters | Islanded microgrids

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 57, percentile 94)

? Energy Engineering and Power Technology (Q1, rank 25, percentile 92)

2022:

? Electrical and Electronic Engineering (Q1, rank 61, percentile 91)

? Energy Engineering and Power Technology (Q1, rank 26, percentile 89)

? Source Id: 17985

? Author Ids: 57204050700;7801615894;36607521000

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Rosini A.

41.

? Title: A Decentralized Higher Order Sliding Mode Control for Islanded Photovoltaic-Storage Systems

? Venue: Energy

? Year: 2022

? Type: Journal  
? Subtype: Article  
? Citations: 15  
? DOI: 10.1016/j.energy.2022.124502  
? Scopus ID: 2-s2.0-85132523134  
? Issn: 03605442  
? Volume: 255  
? Authors: Rosini A.; Procopio R.; Bonfiglio A.; Incremona G. P.; Ferrara A.  
? Keywords: Grid feeding inverters | Grid forming inverters | Islanded microgrids | Sliding mode control  
? Quartile:  
2025:  
? Modeling and Simulation (Q1, rank 4, percentile 99)  
? Civil and Structural Engineering (Q1, rank 7, percentile 98)  
? Mechanical Engineering (Q1, rank 19, percentile 97)  
? Building and Construction (Q1, rank 7, percentile 97)  
? Management, Monitoring, Policy and Law (Q1, rank 13, percentile 96)  
? Electrical and Electronic Engineering (Q1, rank 34, percentile 96)  
? Energy Engineering and Power Technology (Q1, rank 16, percentile 95)  
? Pollution (Q1, rank 10, percentile 94)  
? Industrial and Manufacturing Engineering (Q1, rank 23, percentile 94)  
? Fuel Technology (Q1, rank 10, percentile 93)  
? Energy (all) (Q1, rank 7, percentile 91)  
? Renewable Energy, Sustainability and the Environment (Q1, rank 32, percentile 89)  
2022:  
? Modeling and Simulation (Q1, rank 5, percentile 98)  
? Civil and Structural Engineering (Q1, rank 7, percentile 98)  
? Building and Construction (Q1, rank 5, percentile 97)  
? Mechanical Engineering (Q1, rank 17, percentile 97)  
? Management, Monitoring, Policy and Law (Q1, rank 11, percentile 97)  
? Electrical and Electronic Engineering (Q1, rank 32, percentile 95)  
? Industrial and Manufacturing Engineering (Q1, rank 17, percentile 95)  
? Energy Engineering and Power Technology (Q1, rank 16, percentile 93)  
? Fuel Technology (Q1, rank 8, percentile 93)  
? Pollution (Q1, rank 12, percentile 92)  
? Energy (all) (Q1, rank 7, percentile 90)  
? Renewable Energy, Sustainability and the Environment (Q1, rank 28, percentile 88)  
? Source Id: 29348  
? Author Ids: 57204050700;7801615894;36607521000;55933915900;55845601700  
? Authoraffiliationids: 60025153;60025153;60025153;60023256;60015197  
? Corresponding: Rosini A.

42.

? Title: Primary Voltage and Frequency Regulation in Inverter Based Islanded Microgrids through a Model Predictive Control Approach  
? Venue: Energies  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 9  
? DOI: 10.3390/en15145077  
? Scopus ID: 2-s2.0-85136444814  
? eISSN: 19961073  
? Volume: 15  
? Issue: 14

? Authors: Mestriner Daniele; Rosini Alessandro; Xhani Iris; Bonfiglio Andrea; Procopio Renato  
? Keywords: frequency regulation | microgrids | model predictive control  
? 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)  
2022:  
? Control and Optimization (Q1, rank 21, percentile 83)  
? Engineering (miscellaneous) (Q1, rank 27, percentile 82)  
? Electrical and Electronic Engineering (Q2, rank 197, percentile 73)  
? Energy Engineering and Power Technology (Q2, rank 77, percentile 69)  
? Energy (miscellaneous) (Q2, rank 18, percentile 67)  
? Fuel Technology (Q2, rank 39, percentile 67)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 103, percentile 56)  
? Source Id: 62932  
? Author Ids: 57115575100;57204050700;57854403900;36607521000;7801615894  
? Authoraffiliationids: 60025153;60025153;128490304;60025153;60025153  
? Corresponding: Mestriner D.

43.

? Title: An Advanced Droop Control Strategy for Reactive Power Assessment in Islanded Microgrids  
? Venue: IEEE Transactions on Power Systems  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 33  
? Doi: 10.1109/Tpwr.2021.3124062  
? Scopus ID: 2-s2.0-85118685518  
? Issn: 08858950  
? eISSN: 15580679  
? Volume: 37  
? Issue: 4  
? Pages: 3014-3025  
? Authors: Minetti Manuela; Rosini Alessandro; Denegri Gio Battista; Bonfiglio Andrea; Procopio Renato  
? Keywords: droop control | inverter control | Microgrid | primary control | reactive power sharing  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 36, percentile 96)  
? Energy Engineering and Power Technology (Q1, rank 17, percentile 94)  
2022:  
? Electrical and Electronic Engineering (Q1, rank 30, percentile 96)  
? Energy Engineering and Power Technology (Q1, rank 14, percentile 94)  
? Source Id: 28825  
? Author Ids: 57210474295;57204050700;7004649825;36607521000;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Minetti M.

44.

? Title: Distributed control for polygeneration microgrids: A Dynamic Market Mechanism approach  
? Venue: Control Engineering Practice  
? Year: 2022  
? Type: Journal  
? Subtype: Article  
? Citations: 17  
? DOI: 10.1016/j.conengprac.2021.105052  
? Scopus ID: 2-s2.0-85122626185  
? Issn: 09670661  
? Volume: 121  
? Authors: Nudell Thomas R.; Brignone Massimo; Robba Michela; Bonfiglio Andrea; Ferro Giulio; Delfino Federico; Annaswamy Anuradha M.  
? Keywords: Combined heat and power | Dynamic Market Mechanism | Microgrid | Transactive control  
? Quartile:  
2025:  
? Applied Mathematics (Q1, rank 28, percentile 95)  
? Electrical and Electronic Engineering (Q1, rank 143, percentile 85)  
? Control and Systems Engineering (Q1, rank 58, percentile 84)  
? Computer Science Applications (Q1, rank 171, percentile 82)  
2022:  
? Applied Mathematics (Q1, rank 17, percentile 97)  
? Computer Science Applications (Q1, rank 88, percentile 88)  
? Electrical and Electronic Engineering (Q1, rank 89, percentile 88)  
? Control and Systems Engineering (Q1, rank 35, percentile 87)  
? Source Id: 18174  
? Author Ids:  
55846033800;8580886100;7004979187;36607521000;57062015700;6603766602;35569822700  
? Authoraffiliationids: 117801940;60025153;60025153;60025153;60025153;60025153;60140949  
? Corresponding: Nudell T.R.

45.

? Title: Can Frequency Be Used to Achieve Communication-Less Primary Control in Photovoltaic-Storage Islanded Microgrids?  
? Venue: 2022 Workshop on Blockchain for Renewables Integration Blorin 2022  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Blorin54731.2022.10028415  
? Scopus ID: 2-s2.0-85148332300  
? Pages: 102-106  
? Authors: Rosini Alessandro; Procopio Renato; Bonfiglio Andrea  
? Keywords: Grid-Feeding converter | Grid-Forming converter | Islanded Microgrid | Primary Frequency Control  
? Source Id: 21101136298  
? Author Ids: 57204050700;7801615894;36607521000  
? Authoraffiliationids: 60025153;60025153;60025153  
? Corresponding: Rosini A.

46.

? Title: Real-Time Power System Laboratories at the University of Genoa  
? Venue: 2022 Aeit International Annual Conference Aeit 2022  
? Year: 2022

- ? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.23919/Aeit56783.2022.9951786  
? Scopus ID: 2-s2.0-85143621135  
? Authors: Bonfiglio Andrea; Bracco Stefano; D'Agostino Fabio; Delfino Federico; Laiolo Paola; Invernizzi Marco; Massucco Stefano; Procopio Renato; Saviozzi Matteo; Silvestro Federico  
? Keywords: Power Laboratories | Power Systems | Real Time Simulation  
? Source Id: 21101125262  
? Author Ids: 36607521000;15049159900;56553864200;6603766602;56576462300;6701527755;6603357712;7801615894;56027556100;23026343700  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.
47.  
? Title: Ensiel National Energy Transition Real Time Lab: a Novel Tool to Shape the Future Energy System  
? Venue: 2022 Aeit International Annual Conference Aeit 2022  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 12  
? Doi: 10.23919/Aeit56783.2022.9951729  
? Scopus ID: 2-s2.0-85143614787  
? Authors: Benedetto Giorgio; Bompard Ettore; Mazza Andrea; Pons Enrico; Bruno Sergio; Giannoccaro Giovanni; La Scala Massimo; De Caro Fabrizio; Bonfiglio Andrea; Bracco Stefano; Invernizzi Marco; Rossi Mansueto; De Paola Antonio; Thomas Dimitrios; Kotsakis Evangelos; Fulli Gianluca; Villacci Domenico  
? Keywords: Co-simulation | Control-in-the-Loop | Frequency Control | Power Hardware-in-the-Loop | Real Time Simulation | Software-in-the-Loop  
? Source Id: 21101125262  
? Author Ids: 57945789200;6602152775;55375438700;11339101500;7101968133;52263394500;56962766200;57197856138;36607521000;15049159900;6701527755;7403708681;55605029400;57188994200;6508183852;55924499600;6602560464  
? Authoraffiliationids: 60012162;60012162;60012162;60012162;60027299;60027299;60027299;60004300;60025153;60025153;60025153;60025153;60103695;60103695;60103695;60103695;60017293  
? Corresponding: Benedetto G.
48.  
? Title: A Contribution to Reactive Power Control in Inverter Based Islanded Microgrids  
? Venue: IEEE Power and Energy Society General Meeting  
? Year: 2022  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 10  
? Doi: 10.1109/Pesgm48719.2022.9916941  
? Scopus ID: 2-s2.0-85141509462  
? Issn: 19449925  
? eISSN: 19449933  
? Volume: 2022-July  
? Authors: Rosini Alessandro; Minetti Manuela; Denegri Gio Battista; Procopio Renato; Bonfiglio Andrea  
? Keywords: Droop control | Inverter control | Microgrid | Primary Control | Reactive

## Power Sharing

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 622, percentile 37)

? Nuclear Energy and Engineering (Q3, rank 53, percentile 37)

? Energy Engineering and Power Technology (Q3, rank 208, percentile 36)

? Renewable Energy, Sustainability and the Environment (Q3, rank 232, percentile 25)

? Source Id: 20600195623

? Author Ids: 57204050700;57210474295;7004649825;7801615894;36607521000

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

? Corresponding: Rosini A.

49.

? Title: A KPIs Evaluation for Converter Response to Faults in Grid-Connected Configuration

? Venue: 2022 IEEE International Conference on Environment and Electrical Engineering and 2022 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2022

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? DOI: 10.1109/EEEIC/ICPSEurope54979.2022.9854578

? Scopus ID: 2-s2.0-85137992040

? Authors: Rosini Alessandro; Bonfiglio Andrea; Tuckey Andrew; Serra Pietro

? Keywords: Fault Analysis | Inverter Control | Microgrid

? Source Id: 21101107964

? Author Ids: 57204050700;36607521000;59016060200;8246669600

? Authoraffiliationids: 60025153;60025153;127836471;127836471

? Corresponding: Rosini A.

50.

? Title: Soft-Start Capabilities of Battery Energy Storage Systems: Simulative Analysis of an Applicative Test-Case

? Venue: MELECON 2022 IEEE Mediterranean Electrotechnical Conference Proceedings

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Melecon53508.2022.9843132

? Scopus ID: 2-s2.0-85136360433

? Pages: 28-33

? Authors: Aresi Roberto; Bonfiglio Andrea; Mestriner Daniele; Pace Giampiero; Pongiglione Paola; Soressi Ernesto

? Keywords: BESS | inrush current | Soft-start

? Source Id: 21101102123

? Author Ids: 6506633182;36607521000;57115575100;57854694600;57195506239;6505875138

? Authoraffiliationids: 128490895;60025153;60025153;128490895;128491796;128491796

? Corresponding: Aresi R.

51.

? Title: A review of reactive power sharing control techniques for islanded microgrids

? Venue: Renewable and Sustainable Energy Reviews

? Year: 2021

? Type: Journal

? Subtype: Review

? Citations: 56



? DOI: 10.1016/j.rser.2021.110745  
? Scopus ID: 2-s2.0-85100258186  
? Issn: 13640321  
? eISSN: 18790690  
? Volume: 141  
? Authors: Rosini A.; Labella A.; Bonfiglio A.; Procopio R.; Guerrero Josep M.  
? Keywords: Hierarchical control | Islanded microgrids | Microgrids | Primary control | Reactive power sharing | Voltage regulation  
? Quartile:  
2025:  
? Renewable Energy, Sustainability and the Environment (Q1, rank 7, percentile 97)  
2021:  
? Renewable Energy, Sustainability and the Environment (Q1, rank 6, percentile 97)  
? Source Id: 27567  
? Author Ids: 57204050700;57114931700;36607521000;7801615894;35588010400  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60022134  
? Corresponding: Rosini A.

52.

? Title: A decentralized approach for frequency and voltage regulation in islanded PV-Storage microgrids  
? Venue: Electric Power Systems Research  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 38  
? DOI: 10.1016/j.epsr.2020.106974  
? Scopus ID: 2-s2.0-85099712458  
? Issn: 03787796  
? Volume: 193  
? Authors: Rosini A.; Mestriner D.; Labella A.; Bonfiglio A.; Procopio R.  
? Keywords: Model Predictive Control | Photovoltaic integration | Primary frequency control | Renewable Energy Sources | Voltage regulation  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 126, percentile 87)  
? Energy Engineering and Power Technology (Q1, rank 60, percentile 81)  
2021:  
? Electrical and Electronic Engineering (Q1, rank 128, percentile 81)  
? Energy Engineering and Power Technology (Q1, rank 48, percentile 79)  
? Source Id: 16044  
? Author Ids: 57204050700;57115575100;57114931700;36607521000;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Rosini A.

53.

? Title: An innovative sliding mode load controller for gas turbine power generators: Design and experimental validation via real-time simulation  
? Venue: Energy  
? Year: 2021  
? Type: Journal  
? Subtype: Article  
? Citations: 6  
? DOI: 10.1016/j.energy.2020.119363  
? Scopus ID: 2-s2.0-85096992346  
? Issn: 03605442

? Volume: 217

? Authors: Palmieri A.; Lanzarotto D.; Cacciacarne S.; Torre I.; Bonfiglio A.

? Keywords: Energy power generation | Experimental validation | Gas turbines | Non-linear control techniques | Power system control | Sliding mode control

? Quartile:

2025:

? Modeling and Simulation (Q1, rank 4, percentile 99)

? Civil and Structural Engineering (Q1, rank 7, percentile 98)

? Mechanical Engineering (Q1, rank 19, percentile 97)

? Building and Construction (Q1, rank 7, percentile 97)

? Management, Monitoring, Policy and Law (Q1, rank 13, percentile 96)

? Electrical and Electronic Engineering (Q1, rank 34, percentile 96)

? Energy Engineering and Power Technology (Q1, rank 16, percentile 95)

? Pollution (Q1, rank 10, percentile 94)

? Industrial and Manufacturing Engineering (Q1, rank 23, percentile 94)

? Fuel Technology (Q1, rank 10, percentile 93)

? Energy (all) (Q1, rank 7, percentile 91)

? Renewable Energy, Sustainability and the Environment (Q1, rank 32, percentile 89)

2021:

? Modeling and Simulation (Q1, rank 5, percentile 98)

? Civil and Structural Engineering (Q1, rank 7, percentile 98)

? Management, Monitoring, Policy and Law (Q1, rank 8, percentile 98)

? Mechanical Engineering (Q1, rank 18, percentile 97)

? Building and Construction (Q1, rank 7, percentile 96)

? Industrial and Manufacturing Engineering (Q1, rank 13, percentile 96)

? Electrical and Electronic Engineering (Q1, rank 36, percentile 94)

? Fuel Technology (Q1, rank 6, percentile 94)

? Energy Engineering and Power Technology (Q1, rank 14, percentile 94)

? Pollution (Q1, rank 10, percentile 93)

? Energy (all) (Q1, rank 5, percentile 93)

? Renewable Energy, Sustainability and the Environment (Q1, rank 22, percentile 90)

? Source Id: 29348

? Author Ids: 57201775084;57195070345;57192958598;57192961419;36607521000

? Authoraffiliationids: 60025153;60025153;60073836;60073836;60025153

? Corresponding: Palmieri A.

54.

? Title: A transient stability approach for the analysis of droop-controlled islanded microgrids

? Venue: Electric Power Systems Research

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 14

? DOI: 10.1016/j.epsr.2020.106509

? Scopus ID: 2-s2.0-85087519051

? Issn: 03787796

? Volume: 187

? Authors: Mestriner D.; Labella A.; Brignone M.; Bonfiglio A.; Procopio R.

? Keywords: Microgrids | Power system modeling | Power system stability

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 126, percentile 87)

? Energy Engineering and Power Technology (Q1, rank 60, percentile 81)

2020:

? Electrical and Electronic Engineering (Q1, rank 100, percentile 85)  
? Energy Engineering and Power Technology (Q1, rank 36, percentile 84)  
? Source Id: 16044  
? Author Ids: 57115575100;57114931700;8580886100;36607521000;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Mestriner D.

55.

? Title: An MPC-sliding mode cascaded control architecture for PV grid-feeding inverters  
? Venue: Energies  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 15  
? DOI: 10.3390/en13092326  
? Scopus ID: 2-s2.0-85086145212  
? eISSN: 19961073  
? Volume: 13  
? Issue: 9  
? Authors: Palmieri Alessandro; Rosini Alessandro; Procopio Renato; Bonfiglio Andrea  
? Keywords: Microgrid | Model predictive control | Photovoltaic | Renewable energy | Sliding mode control  
? 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)  
2020:  
? Control and Optimization (Q1, rank 17, percentile 85)  
? Engineering (miscellaneous) (Q1, rank 13, percentile 83)  
? Electrical and Electronic Engineering (Q2, rank 183, percentile 73)  
? Energy (miscellaneous) (Q2, rank 7, percentile 72)  
? Energy Engineering and Power Technology (Q2, rank 62, percentile 72)  
? Fuel Technology (Q2, rank 33, percentile 67)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 69, percentile 64)  
? Source Id: 62932  
? Author Ids: 57201775084;57204050700;7801615894;36607521000  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Palmieri A.

56.

? Title: An MPC approach for grid-forming inverters: Theory and experiment  
? Venue: Energies  
? Year: 2020  
? Type: Journal  
? Subtype: Article  
? Citations: 6  
? DOI: 10.3390/en13092270  
? Scopus ID: 2-s2.0-85084344465  
? eISSN: 19961073  
? Volume: 13

? Issue: 9

? Authors: Labella Alessandro; Filipovic Filip; Petronijevic Milutin; Bonfiglio Andrea; Procopio Renato

? Keywords: Grid-forming inverter | Microgrid | Model predictive control | Primary control

? 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)

2020:

? Control and Optimization (Q1, rank 17, percentile 85)

? Engineering (miscellaneous) (Q1, rank 13, percentile 83)

? Electrical and Electronic Engineering (Q2, rank 183, percentile 73)

? Energy (miscellaneous) (Q2, rank 7, percentile 72)

? Energy Engineering and Power Technology (Q2, rank 62, percentile 72)

? Fuel Technology (Q2, rank 33, percentile 67)

? Renewable Energy, Sustainability and the Environment (Q2, rank 69, percentile 64)

? Source Id: 62932

? Author Ids: 57114931700;57209321092;14422928500;36607521000;7801615894

? Authoraffiliationids: 60025153;60068806;60068806;60025153;60025153

? Corresponding: Labella A.

57.

? Title: A comprehensive inverter-bess primary control for AC microgrids

? Venue: Energies

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 44

? DOI: 10.3390/en12203810

? Scopus ID: 2-s2.0-85074927405

? eISSN: 19961073

? Volume: 12

? Issue: 20

? Authors: Fusero Michele; Tuckey Andrew; Rosini Alessandro; Serra Pietro; Procopio Renato; Bonfiglio Andrea

? Keywords: BESS | DigSILENT PowerFactory | EMT simulations | Grid Forming | Grid Support | Grid Support | Inverter Control | Microgrid | Primary control

? 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)

2019:

? Control and Optimization (Q1, rank 19, percentile 81)

? Energy Engineering and Power Technology (Q2, rank 62, percentile 71)

? Electrical and Electronic Engineering (Q2, rank 208, percentile 69)  
? Fuel Technology (Q2, rank 33, percentile 66)  
? Energy (miscellaneous) (Q2, rank 9, percentile 63)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 72, percentile 60)  
? Source Id: 62932  
? Author Ids: 56415081600;59016060200;57204050700;8246669600;7801615894;36607521000  
? Authoraffiliationids: 60102057;123444737;60025153;60102057;60025153;60025153  
? Corresponding: Fusero M.

58.

? Title: Fuel Economy and EMS for a Series Hybrid Vehicle Based on Supercapacitor Storage  
? Venue: IEEE Transactions on Power Electronics  
? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 40  
? Doi: 10.1109/Tpel.2019.2895209  
? Scopus ID: 2-s2.0-85068677902  
? Issn: 08858993  
? eISSN: 19410107  
? Volume: 34  
? Issue: 10  
? Pages: 9966-9977  
? Authors: Passalacqua Massimiliano; Lanzarotto Damiano; Repetto Matteo; Vaccaro Luis; Bonfiglio Andrea; Marchesoni Mario  
? Keywords: Energy efficiency | fuel economy | hybrid electric vehicles (HEVs) | series architecture | supercapacitors  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 50, percentile 95)  
2019:  
? Electrical and Electronic Engineering (Q1, rank 19, percentile 97)  
? Source Id: 26055  
? Author Ids: 57195070159;57195070345;56264520300;21935399500;36607521000;6701827441  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Passalacqua M.

59.

? Title: Load voltage direct tracking of a DC-DC buck-boost converter  
? Venue: 2019 21st European Conference on Power Electronics and Applications EPE 2019 Ecce Europe  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.23919/Epe.2019.8915197  
? Scopus ID: 2-s2.0-85076692568  
? Authors: Palmieri Alessandro; Bonfiglio Andrea; Invernizzi Marco; Lanzarotto Damiano; Procopio Renato  
? Keywords: Converter control | Non-linear control | Non-minimum phase system | Unstable internal dynamics  
? Source Id: 21100939561  
? Author Ids: 57201775084;36607521000;6701527755;57195070345;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Palmieri A.

60.

? Title: Power Management in Islanded Hybrid Diesel-Storage Microgrids  
? Venue: Proceedings of 2019 IEEE Pes Innovative Smart Grid Technologies Europe Isgt Europe 2019  
? Year: 2019  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 13  
? DOI: 10.1109/ISGTEurope.2019.8905522  
? Scopus ID: 2-s2.0-85075852956  
? Authors: Rosini Alessandro; Bonfiglio Andrea; Invernizzi Marco; Procopio Renato; Serra Pietro  
? Keywords: Diesel Generator | droop control | EMT simulations | Microgrid | Microgrid control  
? Source Id: 21100937400  
? Author Ids: 57204050700;36607521000;6701527755;7801615894;8246669600  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60102057  
? Corresponding: Rosini A.

61.

? Title: An MPC-Based approach for emergency control ensuring transient stability in power grids with steam plants  
? Venue: IEEE Transactions on Industrial Electronics  
? Year: 2019  
? Type: Journal  
? Subtype: Article  
? Citations: 36  
? Doi: 10.1109/Tie.2018.2870384  
? Scopus ID: 2-s2.0-85054200925  
? Issn: 02780046  
? Volume: 66  
? Issue: 7  
? Pages: 5412-5422  
? Authors: Bonfiglio Andrea; Cantoni Federico; Oliveri Alberto; Procopio Renato; Rosini Alessandro; Invernizzi Marco; Storace Marco  
? Keywords: Constrained optimization | Model-predictive control (MPC) | Power system emergency control  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)  
? Control and Systems Engineering (Q1, rank 17, percentile 95)  
2019:  
? Control and Systems Engineering (Q1, rank 3, percentile 98)  
? Electrical and Electronic Engineering (Q1, rank 13, percentile 98)  
? Source Id: 26053  
? Author Ids:  
36607521000;57505409900;57200399832;7801615894;57204050700;6701527755;7004134087  
? Authoraffiliationids:  
60025153;60025153-60032170;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

62.

? Title: A model predictive control design for power generation heavy-duty gas turbines  
? Venue: Energies  
? Year: 2019  
? Type: Journal

? Subtype: Article  
 ? Citations: 17  
 ? DOI: 10.3390/en12112182  
 ? Scopus ID: 2-s2.0-85067173149  
 ? eISSN: 19961073  
 ? Volume: 12  
 ? Issue: 11  
 ? Authors: Rosini Alessandro; Palmieri Alessandro; Lanzarotto Damiano; Procopio Renato; Bonfiglio Andrea  
 ? Keywords: Constrained nonlinear systems | Gas turbine control | Model predictive control | Model-based control  
 ? 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)  
 2019:  
 ? Control and Optimization (Q1, rank 19, percentile 81)  
 ? Energy Engineering and Power Technology (Q2, rank 62, percentile 71)  
 ? Electrical and Electronic Engineering (Q2, rank 208, percentile 69)  
 ? Fuel Technology (Q2, rank 33, percentile 66)  
 ? Energy (miscellaneous) (Q2, rank 9, percentile 63)  
 ? Renewable Energy, Sustainability and the Environment (Q2, rank 72, percentile 60)  
 ? Source Id: 62932  
 ? Author Ids: 57204050700;57201775084;57195070345;7801615894;36607521000  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Rosini A.

63.

? Title: ITER Reactive Power Compensation Systems: Analysis on reactive power sharing strategies  
 ? Venue: Proceedings 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2019  
 ? Year: 2019  
 ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 5  
 ? Doi: 10.1109/Eeeic.2019.8783219  
 ? Scopus ID: 2-s2.0-85070823536  
 ? Authors: Mestriner Daniele; Labella Alessandro; Bonfiglio Andrea; Benfatto Ivone; Li Jinchao; Ye Yulong; Song Zhiqian  
 ? Keywords: ITER Power Supply | Reactive Power Compensation System | Static var compensator | Thyristor controlled reactor | Voltage stability  
 ? Source Id: 21100963042  
 ? Author Ids:  
 57115575100;57114931700;36607521000;6603638168;55963688300;57220779716;55660506000  
 ? Authoraffiliationids:  
 60025153;60025153;60025153;123002656;123002656;123002656;123002656  
 ? Corresponding: Mestriner D.

64.

? Title: A Sliding Mode Control Approach for Gas Turbine Power Generators  
 ? Venue: IEEE Transactions on Energy Conversion  
 ? Year: 2019  
 ? Type: Journal  
 ? Subtype: Article  
 ? Citations: 36  
 ? Doi: 10.1109/Tec.2018.2879688  
 ? Scopus ID: 2-s2.0-85056176939  
 ? Issn: 08858969  
 ? Volume: 34  
 ? Issue: 2  
 ? Pages: 921-932  
 ? Authors: Bonfiglio Andrea; Cacciacarne Stefano; Invernizzi Marco; Lanzarotto Damiano; Palmieri Alessandro; Procopio Renato  
 ? Keywords: Feedback linearization | gas turbine | model based control | nonlinear systems | sliding mode  
 ? Quartile:  
 2025:  
 ? Electrical and Electronic Engineering (Q1, rank 62, percentile 93)  
 ? Energy Engineering and Power Technology (Q1, rank 30, percentile 90)  
 2019:  
 ? Energy Engineering and Power Technology (Q1, rank 13, percentile 94)  
 ? Electrical and Electronic Engineering (Q1, rank 55, percentile 91)  
 ? Source Id: 28824  
 ? Author Ids: 36607521000;57192958598;6701527755;57195070345;57201775084;7801615894  
 ? Authoraffiliationids: 60025153;60073836;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.

65.

? Title: A simplified study for reactive power management in autonomous microgrids  
 ? Venue: Wseas Transactions on Power Systems  
 ? Year: 2019  
 ? Type: Journal  
 ? Subtype: Article  
 ? Citations: 13  
 ? Scopus ID: 2-s2.0-85076252294  
 ? Issn: 17905060  
 ? eISSN: 2224350X  
 ? Volume: 14  
 ? Pages: 107-112  
 ? Authors: Rosini A.; Bonfiglio A.; Mestriner D.; Minetti M.; Bracco S.  
 ? Keywords: Autonomous microgrids | Microgrids | Power electronic converters | Power management | Reactive power | Voltage control  
 ? Quartile:  
 2025:  
 ? Industrial and Manufacturing Engineering (Q3, rank 240, percentile 41)  
 ? Electrical and Electronic Engineering (Q3, rank 621, percentile 37)  
 2019:  
 ? Subject (Q2, rank 456, percentile 54)  
 ? Subject (Q3, rank 128, percentile 36)  
 ? Subject (Q3, rank 259, percentile 34)  
 ? Subject (Q3, rank 912, percentile 26)  
 ? Industrial and Manufacturing Engineering (Q4, rank 261, percentile 23)  
 ? Source Id: 19700190300  
 ? Author Ids: 57204050700;36607521000;57115575100;57210474295;15049159900



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

? Corresponding: Rosini A.

66.

? Title: Tuning and feasibility analysis of classical first-order MIMO non-linear sliding mode control design for industrial applications

? Venue: Machines

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 5

? DOI: 10.3390/machines7010010

? Scopus ID: 2-s2.0-85067605020

? eISSN: 20751702

? Volume: 7

? Issue: 1

? Authors: Palmieri Alessandro; Procopio Renato; Bonfiglio Andrea; Brignone Massimo; Invernizzi Marco; Morini Andrea; Veselic' Boban

? Keywords: Nonlinear systems control | Robust control | Sliding mode control | Uncertain systems

? Quartile:

2025:

? Control and Optimization (Q1, rank 20, percentile 88)

? Mechanical Engineering (Q1, rank 165, percentile 77)

? Industrial and Manufacturing Engineering (Q2, rank 104, percentile 74)

? Electrical and Electronic Engineering (Q2, rank 256, percentile 74)

? Control and Systems Engineering (Q2, rank 105, percentile 72)

? Computer Science (miscellaneous) (Q2, rank 48, percentile 72)

2019:

? Control and Optimization (Q2, rank 26, percentile 74)

? Industrial and Manufacturing Engineering (Q2, rank 92, percentile 73)

? Computer Science (miscellaneous) (Q2, rank 19, percentile 71)

? Mechanical Engineering (Q2, rank 184, percentile 68)

? Electrical and Electronic Engineering (Q2, rank 247, percentile 63)

? Control and Systems Engineering (Q2, rank 95, percentile 60)

? Source Id: 21100838145

? Author Ids:

57201775084;7801615894;36607521000;8580886100;6701527755;7006658135;6602578334

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60068806

? Corresponding: Palmieri A.

67.

? Title: Design and Implementation of a Variable Synthetic Inertia Controller for Wind Turbine Generators

? Venue: IEEE Transactions on Power Systems

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 98

? Doi: 10.1109/Tpwr.2018.2865958

? Scopus ID: 2-s2.0-85059111391

? Issn: 08858950

? Volume: 34

? Issue: 1

? Pages: 754-764

? Authors: Bonfiglio Andrea; Invernizzi Marco; Labella Alessandro; Procopio Renato

? Keywords: Frequency support | renewable generation | synthetic inertia | wind energy

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 36, percentile 96)

? Energy Engineering and Power Technology (Q1, rank 17, percentile 94)

2019:

? Energy Engineering and Power Technology (Q1, rank 7, percentile 96)

? Electrical and Electronic Engineering (Q1, rank 25, percentile 96)

? Source Id: 28825

? Author Ids: 36607521000;6701527755;57114931700;7801615894

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Bonfiglio A.

68.

? Title: ITER Fast Discharging Units: A Black Box Model Approach for Circuital Simulations

? Venue: Proceedings 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe Eeeic I and Cps Europe 2018

? Year: 2018

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Eeeic.2018.8494418

? Scopus ID: 2-s2.0-85056535916

? Authors: Bonfiglio Andrea; Labella Alessandro; Mestriner Daniele; Milani Francesco; Procopio Renato; Ye Yulong

? Keywords: Black box arc model | Electric arc models | Nuclear fusion

? Source Id: 21100885800

? Author Ids: 36607521000;57114931700;57115575100;7006887353;7801615894;57220779716

? Authoraffiliationids: 60025153;60025153;60025153;60002062;60025153;60002062

? Corresponding: Bonfiglio A.

69.

? Title: Modeling and Experimental Validation of an Islanded No-Inertia Microgrid Site

? Venue: IEEE Transactions on Sustainable Energy

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 32

? Doi: 10.1109/Tste.2018.2816401

? Scopus ID: 2-s2.0-85043773189

? Issn: 19493029

? Volume: 9

? Issue: 4

? Pages: 1812-1821

? Authors: Bonfiglio Andrea; Delfino Federico; Labella Alessandro; Mestriner Daniele; Pampararo Fabio; Procopio Renato; Guerrero Josep M.

? Keywords: islanding | microgrids | power system modeling | Smart grids | system validation

? Quartile:

2025:

? Renewable Energy, Sustainability and the Environment (Q1, rank 20, percentile 93)

2018:

? Renewable Energy, Sustainability and the Environment (Q1, rank 9, percentile 94)

? Source Id: 19700177027

? Author Ids:  
36607521000;6603766602;57114931700;57115575100;36782697700;7801615894;35588010400  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60022134  
? Corresponding: Bonfiglio A.

70.

? Title: Model Predictive Control Application for the Control of a Grid-Connected Synchronous Generator  
? Venue: IEECON 2018 6th International Electrical Engineering Congress  
? Year: 2018  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? Doi: 10.1109/IEECON.2018.8712191  
? Scopus ID: 2-s2.0-85066604263  
? Authors: Bonfiglio Andrea; Invernizzi Marco  
? Keywords: Model Predictive Control | Model-based Control Techniques | Power Systems | Synchronous Generator  
? Source Id: 21100927296  
? Author Ids: 36607521000;6701527755  
? Authoraffiliationids: 60025153;60025153  
? Corresponding: Bonfiglio A.

71.

? Title: Design criteria for the optimal sizing of integrated photovoltaic-storage systems  
? Venue: Energy  
? Year: 2018  
? Type: Journal  
? Subtype: Article  
? Citations: 43  
? DOI: 10.1016/j.energy.2018.02.056  
? Scopus ID: 2-s2.0-85042350941  
? Issn: 03605442  
? Volume: 149  
? Pages: 505-515  
? Authors: Bendato Ilaria; Bonfiglio Andrea; Brignone Massimo; Delfino Federico; Pampararo Fabio; Procopio Renato; Rossi Mansueto  
? Keywords: Economic analysis | Energy management | Optimal scheduling | Optimization | Smart grids  
? Quartile:  
2025:  
? Modeling and Simulation (Q1, rank 4, percentile 99)  
? Civil and Structural Engineering (Q1, rank 7, percentile 98)  
? Mechanical Engineering (Q1, rank 19, percentile 97)  
? Building and Construction (Q1, rank 7, percentile 97)  
? Management, Monitoring, Policy and Law (Q1, rank 13, percentile 96)  
? Electrical and Electronic Engineering (Q1, rank 34, percentile 96)  
? Energy Engineering and Power Technology (Q1, rank 16, percentile 95)  
? Pollution (Q1, rank 10, percentile 94)  
? Industrial and Manufacturing Engineering (Q1, rank 23, percentile 94)  
? Fuel Technology (Q1, rank 10, percentile 93)  
? Energy (all) (Q1, rank 7, percentile 91)  
? Renewable Energy, Sustainability and the Environment (Q1, rank 32, percentile 89)  
2018:  
? Civil and Structural Engineering (Q1, rank 5, percentile 98)

? Building and Construction (Q1, rank 5, percentile 97)  
 ? Industrial and Manufacturing Engineering (Q1, rank 15, percentile 95)  
 ? Mechanical Engineering (Q1, rank 26, percentile 95)  
 ? Pollution (Q1, rank 9, percentile 92)  
 ? Electrical and Electronic Engineering (Q1, rank 52, percentile 92)  
 ? Source Id: 29348  
 ? Author Ids:  
 56426374300;36607521000;8580886100;6603766602;36782697700;7801615894;7403708681  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bendato I.

72.

? Title: Definition of a sliding mode controller accounting for a reduced order model of gas turbine set  
 ? Venue: 2017 52nd International Universities Power Engineering Conference Upec 2017  
 ? Year: 2017  
 ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 11  
 ? Doi: 10.1109/Upec.2017.8231919  
 ? Scopus ID: 2-s2.0-85046100095  
 ? Volume: 2017-January  
 ? Pages: 1-6  
 ? Authors: Bonfiglio A.; Invernizzi M.; Lanzarotto D.; Palmieri A.; Procopio R.  
 ? Keywords: power system control | power system modelling | Sliding mode control  
 ? Source Id: 21100858345  
 ? Author Ids: 36607521000;6701527755;57195070345;57201775084;7801615894  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.

73.

? Title: Steady-state assessments of PMSGs in wind generating units  
 ? Venue: International Journal of Electrical Power and Energy Systems  
 ? Year: 2017  
 ? Type: Journal  
 ? Subtype: Article  
 ? Citations: 47  
 ? DOI: 10.1016/j.ijepes.2017.02.002  
 ? Scopus ID: 2-s2.0-85013224089  
 ? Issn: 01420615  
 ? Volume: 90  
 ? Pages: 87-93  
 ? Authors: Bonfiglio A.; Delfino F.; Gonzalez-Longatt F.; Procopio R.  
 ? Keywords: Capability chart | Electric machines | Power system modeling and wind power generation  
 ? Quartile:  
 2025:  
 ? Electrical and Electronic Engineering (Q1, rank 57, percentile 94)  
 ? Energy Engineering and Power Technology (Q1, rank 25, percentile 92)  
 2017:  
 ? Energy Engineering and Power Technology (Q1, rank 9, percentile 95)  
 ? Electrical and Electronic Engineering (Q1, rank 35, percentile 94)  
 ? Source Id: 17985  
 ? Author Ids: 36607521000;6603766602;24922792900;7801615894  
 ? Authoraffiliationids: 60025153;60025153;60000891;60025153  
 ? Corresponding: Bonfiglio A.

74.

? Title: Inertial frequency response provided by battery energy storage systems: Probabilistic assessment  
? Venue: 2017 6th International Conference on Clean Electrical Power Renewable Energy Resources Impact Icccep 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 9  
? Doi: 10.1109/Icccep.2017.8004847  
? Scopus ID: 2-s2.0-85028503523  
? Pages: 403-409  
? Authors: Gonzalez-Longatt F.; Alhejaj S.; Bonfiglio A.; Procopio R.; Rueda J. L.  
? Keywords: Battery energy storage system | frequency response | Monte-Carlo Simulation | probabilistic assessment  
? Source Id: 21100828603  
? Author Ids: 24922792900;57192573727;36607521000;7801615894;25958300100  
? Authoraffiliationids: 60000891;60000891;60025153;60025153;60006288  
? Corresponding: Gonzalez-Longatt F.

75.

? Title: A two frame feedback linearization scheme for the control of fully rated wind generating units  
? Venue: 2017 IEEE Manchester Powertech Powertech 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 0  
? Doi: 10.1109/Ptc.2017.7981006  
? Scopus ID: 2-s2.0-85034786860  
? Authors: Bonfiglio A.; Di Grigoli L.; Procopio R.; Alhejaj S. M.; Gonzalez-Longatt F.  
? Keywords: distributed energy resources | Feedback Linearization | non-linear control techniques | power systems modelling | Wind generation  
? Source Id: 21100838740  
? Author Ids: 36607521000;57197786063;7801615894;57192573727;24922792900  
? Authoraffiliationids: 60025153;60000891;60000891;60000891;60000891  
? Corresponding: Bonfiglio A.

76.

? Title: A Dynamic Market Mechanism for Combined Heat and Power Microgrid Energy Management  
? Venue: IFAC Papersonline  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 14  
? DOI: 10.1016/j.ifacol.2017.08.2040  
? Scopus ID: 2-s2.0-85031822309  
? eISSN: 24058963  
? Volume: 50  
? Issue: 1  
? Pages: 10033-10039  
? Authors: R Nudell Thomas; Brignone Massimo; Robba Michela; Bonfiglio Andrea; Delfino Federico; Annaswamy Anuradha  
? Keywords: combined heat | dynamic market mechanism | Microgrid | power | transactive control

? Quartile:  
2025:  
? Control and Systems Engineering (Q3, rank 218, percentile 42)  
2017:  
? Control and Systems Engineering (Q3, rank 162, percentile 31)  
? Source Id: 21100456158  
? Author Ids: 55846033800;8580886100;7004979187;36607521000;6603766602;35569822700  
? Authoraffiliationids: 60022195;60025153;60025153;60025153;60025153;60022195  
? Corresponding: R Nudell T.

77.

? Title: Definition and on-field validation of a microgrid energy management system to manage load and renewables uncertainties and system operator requirements  
? Venue: Electric Power Systems Research  
? Year: 2017  
? Type: Journal  
? Subtype: Article  
? Citations: 31  
? DOI: 10.1016/j.epsr.2017.02.008  
? Scopus ID: 2-s2.0-85013822891  
? Issn: 03787796  
? Volume: 146  
? Pages: 349-361  
? Authors: Bendato Ilaria; Bonfiglio Andrea; Brignone Massimo; Delfino Federico; Pampararo Fabio; Procopio Renato  
? Keywords: Energy management | Grid codes | Optimal scheduling | Optimization | Smart grids | Systems quality management  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 126, percentile 87)  
? Energy Engineering and Power Technology (Q1, rank 60, percentile 81)  
2017:  
? Energy Engineering and Power Technology (Q1, rank 24, percentile 88)  
? Electrical and Electronic Engineering (Q1, rank 98, percentile 85)  
? Source Id: 16044  
? Author Ids: 56426374300;36607521000;8580886100;6603766602;36782697700;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bendato I.

78.

? Title: A real-time Energy Management System for the integration of economical aspects and system operator requirements: Definition and validation  
? Venue: Renewable Energy  
? Year: 2017  
? Type: Journal  
? Subtype: Article  
? Citations: 43  
? DOI: 10.1016/j.renene.2016.10.061  
? Scopus ID: 2-s2.0-84996656512  
? Issn: 09601481  
? eISSN: 18790682  
? Volume: 102  
? Pages: 406-416  
? Authors: Bendato Ilaria; Bonfiglio Andrea; Brignone Massimo; Delfino Federico; Pampararo Fabio; Procopio Renato  
? Keywords: Energy management | Grid codes | Optimal scheduling | Optimization | Smart

grids | Systems quality management

? Quartile:

2025:

? Engineering (all) (Q1, rank 9, percentile 97)

? Renewable Energy, Sustainability and the Environment (Q1, rank 31, percentile 90)

2017:

? Renewable Energy, Sustainability and the Environment (Q1, rank 17, percentile 89)

? Source Id: 27569

? Author Ids: 56426374300;36607521000;8580886100;6603766602;36782697700;7801615894

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

? Corresponding: Bendato I.

79.

? Title: A methodological approach to assess the impact of smarting action on electricity transmission and distribution networks related to Europe 2020 targets

? Venue: Energies

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 4

? DOI: 10.3390/en10020155

? Scopus ID: 2-s2.0-85016093937

? eISSN: 19961073

? Volume: 10

? Issue: 2

? Authors: Bonfiglio Andrea; Delfino Federico; Invernizzi Marco; Procopio Renato

? Keywords: Electricity transmission and distribution | Energy efficiency | Environmental impact | Power systems | Renewable generation integration

? 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)

2017:

? Control and Optimization (Q1, rank 18, percentile 80)

? Energy Engineering and Power Technology (Q2, rank 55, percentile 73)

? Electrical and Electronic Engineering (Q2, rank 202, percentile 69)

? Energy (miscellaneous) (Q2, rank 7, percentile 63)

? Renewable Energy, Sustainability and the Environment (Q2, rank 67, percentile 55)

? Source Id: 62932

? Author Ids: 36607521000;6603766602;6701527755;7801615894

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Bonfiglio A.

80.

? Title: Modeling and maximum power point tracking control of wind generating units equipped with permanent magnet synchronous generators in presence of losses

? Venue: Energies

? Year: 2017

? Type: Journal

? Subtype: Article

? Citations: 27

? DOI: 10.3390/en10010102  
? Scopus ID: 2-s2.0-85016094945  
? eISSN: 19961073  
? Volume: 10  
? Issue: 1  
? Authors: Bonfiglio Andrea; Delfino Federico; Invernizzi Marco; Procopio Renato  
? Keywords: Power systems modeling | Renewable power generation | Wind power  
? 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)  
2017:  
? Control and Optimization (Q1, rank 18, percentile 80)  
? Energy Engineering and Power Technology (Q2, rank 55, percentile 73)  
? Electrical and Electronic Engineering (Q2, rank 202, percentile 69)  
? Energy (miscellaneous) (Q2, rank 7, percentile 63)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 67, percentile 55)  
? Source Id: 62932  
? Author Ids: 36607521000;6603766602;6701527755;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

81.

? Title: Electrical-loss analysis of power-split hybrid electric vehicles  
? Venue: Energies  
? Year: 2017  
? Type: Journal  
? Subtype: Article  
? Citations: 18  
? DOI: 10.3390/en10122142  
? Scopus ID: 2-s2.0-85041452438  
? eISSN: 19961073  
? Volume: 10  
? Issue: 12  
? Authors: Bonfiglio Andrea; Lanzarotto Damiano; Marchesoni Mario; Passalacqua Massimiliano; Procopio Renato; Repetto Matteo  
? Keywords: Continuously variable transmission | Electric machine | Energy efficiency | Hybrid electric vehicle | Hybrid synergy drive | Power-split device  
? 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)  
2017:  
? Control and Optimization (Q1, rank 18, percentile 80)  
? Energy Engineering and Power Technology (Q2, rank 55, percentile 73)



? Electrical and Electronic Engineering (Q2, rank 202, percentile 69)  
? Energy (miscellaneous) (Q2, rank 7, percentile 63)  
? Renewable Energy, Sustainability and the Environment (Q2, rank 67, percentile 55)  
? Source Id: 62932  
? Author Ids: 36607521000;57195070345;6701827441;57195070159;7801615894;56264520300  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

82.

? Title: Implementation of Primary Frequency Regulation on Fully Rated Wind Turbine Generators  
? Venue: Proceedings of 8th International Conference on Energy and Environment Energy Saved Today is Asset for Future Ciem 2017  
? Year: 2017  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 5  
? Doi: 10.1109/Ciem.2017.8120815  
? Scopus ID: 2-s2.0-85041186885  
? Pages: 316-320  
? Authors: Bonfiglio Andrea; Gonzalez-Longatt Francisco M.; Labella Alessandro; Procopio Renato  
? Keywords: Frequency response | Inertia control | Power system | Wind energy | Wind turbine generator  
? Source Id: 21100933089  
? Author Ids: 36607521000;24922792900;57114931700;7801615894  
? Authoraffiliationids: 60025153;60000891;60025153;60025153  
? Corresponding: Bonfiglio A.

83.

? Title: A Simplified Microgrid Model for the Validation of Islanded Control Logics  
? Venue: Energies  
? Year: 2017  
? Type: Journal  
? Subtype: Article  
? Citations: 30  
? DOI: 10.3390/en10081141  
? Scopus ID: 2-s2.0-85034814451  
? eISSN: 19961073  
? Volume: 10  
? Issue: 8  
? Authors: Bonfiglio Andrea; Brignone Massimo; Invernizzi Marco; Labella Alessandro; Mestriner Daniele; Procopio Renato  
? Keywords: Distribute control | Droop control | Islanded microgrid | Microgrid | Microgrid model | Microgrid simulation | Storage characterization  
? 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)  
2017:  
? Control and Optimization (Q1, rank 18, percentile 80)

? Energy Engineering and Power Technology (Q2, rank 55, percentile 73)  
 ? Electrical and Electronic Engineering (Q2, rank 202, percentile 69)  
 ? Energy (miscellaneous) (Q2, rank 7, percentile 63)  
 ? Renewable Energy, Sustainability and the Environment (Q2, rank 67, percentile 55)  
 ? Source Id: 62932  
 ? Author Ids: 36607521000;8580886100;6701527755;57114931700;57115575100;7801615894  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.

84.

? Title: Gas turbine generating units control via feedback linearization approach  
 ? Venue: Energy  
 ? Year: 2017  
 ? Type: Journal  
 ? Subtype: Article  
 ? Citations: 45  
 ? DOI: 10.1016/j.energy.2017.01.048  
 ? Scopus ID: 2-s2.0-85009480817  
 ? Issn: 03605442  
 ? Volume: 121  
 ? Pages: 491-512  
 ? Authors: Bonfiglio A.; Cacciabarone S.; Invernizzi M.; Procopio R.; Schiano S.; Torre I.  
 ? Keywords: Energy power generation | Feedback linearization | Gas cycles | Non-linear control techniques | Power systems

? Quartile:

2025:

? Modeling and Simulation (Q1, rank 4, percentile 99)  
 ? Civil and Structural Engineering (Q1, rank 7, percentile 98)  
 ? Mechanical Engineering (Q1, rank 19, percentile 97)  
 ? Building and Construction (Q1, rank 7, percentile 97)  
 ? Management, Monitoring, Policy and Law (Q1, rank 13, percentile 96)  
 ? Electrical and Electronic Engineering (Q1, rank 34, percentile 96)  
 ? Energy Engineering and Power Technology (Q1, rank 16, percentile 95)  
 ? Pollution (Q1, rank 10, percentile 94)  
 ? Industrial and Manufacturing Engineering (Q1, rank 23, percentile 94)  
 ? Fuel Technology (Q1, rank 10, percentile 93)  
 ? Energy (all) (Q1, rank 7, percentile 91)  
 ? Renewable Energy, Sustainability and the Environment (Q1, rank 32, percentile 89)

2017:

? Civil and Structural Engineering (Q1, rank 4, percentile 98)  
 ? Building and Construction (Q1, rank 5, percentile 97)  
 ? Industrial and Manufacturing Engineering (Q1, rank 10, percentile 97)  
 ? Mechanical Engineering (Q1, rank 18, percentile 96)  
 ? Electrical and Electronic Engineering (Q1, rank 44, percentile 93)  
 ? Pollution (Q1, rank 8, percentile 92)

? Source Id: 29348  
 ? Author Ids: 36607521000;57192958598;6701527755;7801615894;57192960415;57192961419  
 ? Authoraffiliationids: 60025153;60073836;60025153;60025153;60073836;60073836  
 ? Corresponding: Bonfiglio A.

85.

? Title: Experimental validation of PV Model uncertainties impact on microgrid EMS performances  
 ? Venue: IEEE Power and Energy Society General Meeting  
 ? Year: 2016

? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Pesgm.2016.7741709  
? Scopus ID: 2-s2.0-85002489746  
? Issn: 19449925  
? eISSN: 19449933  
? Volume: 2016-November  
? Authors: Annaswamy A.; Nudell T.; Allais M.; Bonfiglio A.; Brignone M.; Cancemi C.; Delfino F.; Procopio R.; Robba M.  
? Keywords: Energy Management Systems | Photovoltaic modeling | Smart Microgrids  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 622, percentile 37)  
? Nuclear Energy and Engineering (Q3, rank 53, percentile 37)  
? Energy Engineering and Power Technology (Q3, rank 208, percentile 36)  
? Renewable Energy, Sustainability and the Environment (Q3, rank 232, percentile 25)  
? Source Id: 20600195623  
? Author Ids: 35569822700;55846033800;57192252463;36607521000;8580886100;57192254805;6603766602;7801615894;7004979187  
? Authoraffiliationids:  
60140949;60140949;60025153;60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Annaswamy A.

86.

? Title: Evaluation of inertial response controllers for full-rated power converter wind turbine (Type 4)  
? Venue: IEEE Power and Energy Society General Meeting  
? Year: 2016  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 43  
? Doi: 10.1109/Pesgm.2016.7741837  
? Scopus ID: 2-s2.0-85002170909  
? Issn: 19449925  
? eISSN: 19449933  
? Volume: 2016-November  
? Authors: Gonzalez-Longatt Francisco M.; Bonfiglio A.; Procopio R.; Verduci B.  
? Keywords: Frequency controller | Frequency stability | Power system | Protection scheme | Wind turbine generator  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 622, percentile 37)  
? Nuclear Energy and Engineering (Q3, rank 53, percentile 37)  
? Energy Engineering and Power Technology (Q3, rank 208, percentile 36)  
? Renewable Energy, Sustainability and the Environment (Q3, rank 232, percentile 25)  
? Source Id: 20600195623  
? Author Ids: 24922792900;36607521000;7801615894;57192257900  
? Authoraffiliationids: 60000891;60025153;60025153;60025153  
? Corresponding: Gonzalez-Longatt F.

87.

? Title: Practical limit of synthetic inertia in full converter wind turbine generators: Simulation approach  
? Venue: 2016 19th International Symposium on Electrical Apparatus and Technologies Siela 2016

? Year: 2016  
 ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 28  
 ? Doi: 10.1109/Siela.2016.7543007  
 ? Scopus ID: 2-s2.0-84985947186  
 ? Authors: Gonzalez-Longatt F.; Bonfiglio A.; Procopio R.; Bogdanov D.  
 ? Keywords: control systems | frequency response | frequency stability | wind power | wind turbine  
 ? Source Id: 21100777460  
 ? Author Ids: 24922792900;36607521000;7801615894;55359685000  
 ? Authoraffiliationids: 60000891;60025153;60025153;60004554  
 ? Corresponding: Gonzalez-Longatt F.

88.

? Title: Definition and experimental validation of a simplified model for a microgrid thermal network and its integration into energy management systems  
 ? Venue: Energies  
 ? Year: 2016  
 ? Type: Journal  
 ? Subtype: Article  
 ? Citations: 3  
 ? DOI: 10.3390/en9110914  
 ? Scopus ID: 2-s2.0-85016131665  
 ? eISSN: 19961073  
 ? Volume: 9  
 ? Issue: 11  
 ? Authors: Bonfiglio Andrea; Brignone Massimo; Delfino Federico; Nilberto Alessandro; Procopio Renato  
 ? Keywords: Energy management | Optimization algorithm | Parameter identification | Smart grids | Thermal network  
 ? 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)  
 2016:  
 ? Subject (Q1, rank 32, percentile 84)  
 ? Energy Engineering and Power Technology (Q1, rank 37, percentile 80)  
 ? Energy (miscellaneous) (Q2, rank 5, percentile 65)  
 ? Renewable Energy, Sustainability and the Environment (Q2, rank 50, percentile 63)  
 ? Source Id: 62932  
 ? Author Ids: 36607521000;8580886100;6603766602;9245207700;7801615894  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.

89.

? Title: Approximate characterization of large Photovoltaic power plants at the Point of Interconnection  
 ? Venue: Proceedings of the Universities Power Engineering Conference  
 ? Year: 2015  
 ? Type: Conference Proceeding

? Subtype: Conference Paper  
? Citations: 23  
? Doi: 10.1109/Upec.2015.7339789  
? Scopus ID: 2-s2.0-84958092976  
? Volume: 2015-November  
? Authors: Bonfiglio A.; Delfino F.; Invernizzi M.; Labella A.; Mestriner D.; Procopio R.; Serra P.  
? Keywords: Photovoltaic Power Plants | Renewable integration  
? Source Id: 69722  
? Author Ids:  
36607521000;6603766602;6701527755;57114931700;57115575100;7801615894;8246669600  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60102057  
? Corresponding: Bonfiglio A.

90.

? Title: A two-step procedure for the energy management in smart microgrids accounting for economical and power quality issues  
? Venue: 2015 IEEE 15th International Conference on Environment and Electrical Engineering Eeeic 2015 Conference Proceedings  
? Year: 2015  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 2  
? Doi: 10.1109/Eeeic.2015.7165194  
? Scopus ID: 2-s2.0-84943153053  
? Pages: 395-400  
? Authors: Bonfiglio Andrea; Brignone Massimo; Delfino Federico; Girdinio Paola; Pampararo Fabio; Procopio Renato  
? Keywords: energy management | optimal scheduling | optimization | power quality | smart grids  
? Source Id: 21100413842  
? Author Ids: 36607521000;8580886100;6603766602;7003430835;36782697700;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

91.

? Title: An approximate methodology to verify the compliance of large photovoltaic power plants to system operator steady-state requirements  
? Venue: Electric Power Systems Research  
? Year: 2015  
? Type: Journal  
? Subtype: Article  
? Citations: 9  
? DOI: 10.1016/j.epsr.2015.05.015  
? Scopus ID: 2-s2.0-84930945444  
? Issn: 03787796  
? Volume: 127  
? Pages: 80-92  
? Authors: Bonfiglio Andrea; Delfino Federico; Invernizzi Marco; Procopio Renato; Serra Pietro  
? Keywords: Photovoltaic power plants | Power plant equivalencing | Renewable generation | Renewable generation integration | Solar energy integration | System operator requirements  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q1, rank 126, percentile 87)

? Energy Engineering and Power Technology (Q1, rank 60, percentile 81)  
2015:  
? Energy Engineering and Power Technology (Q1, rank 22, percentile 88)  
? Electrical and Electronic Engineering (Q1, rank 110, percentile 83)  
? Source Id: 16044  
? Author Ids: 36607521000;6603766602;6701527755;7801615894;8246669600  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60102057  
? Corresponding: Bonfiglio A.

92.

? Title: A receding-horizon approach for active and reactive power flows optimization in microgrids  
? Venue: 2014 IEEE Conference on Control Applications Cca Part of 2014 IEEE Multi Conference on Systems and Control Msc 2014  
? Year: 2014  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 6  
? Doi: 10.1109/Cca.2014.6981445  
? Scopus ID: 2-s2.0-84920546202  
? Pages: 867-872  
? Authors: Bonfiglio A.; Bracco S.; Brignone M.; Delfino F.; Pampararo F.; Procopio R.; Robba M.; Rossi M.  
? Source Id: 21101060560  
? Author Ids: 36607521000;15049159900;8580886100;6603766602;36782697700;7801615894;7004979187;7403708681  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60121711;60025153  
? Corresponding: Bonfiglio A.

93.

? Title: Criteria for the equivalent modeling of large photovoltaic power plants  
? Venue: IEEE Power and Energy Society General Meeting  
? Year: 2014  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 32  
? Doi: 10.1109/Pesgm.2014.6939183  
? Scopus ID: 2-s2.0-84930947710  
? Issn: 19449925  
? eISSN: 19449933  
? Volume: 2014-October  
? Issue: October  
? Authors: Bonfiglio A.; Delfino F.; Invernizzi M.; Procopio R.; Serra P.  
? Keywords: Photovoltaic power plants | Renewables  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 622, percentile 37)  
? Nuclear Energy and Engineering (Q3, rank 53, percentile 37)  
? Energy Engineering and Power Technology (Q3, rank 208, percentile 36)  
? Renewable Energy, Sustainability and the Environment (Q3, rank 232, percentile 25)  
? Source Id: 20600195623  
? Author Ids: 36607521000;6603766602;6701527755;7801615894;8246669600  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60102057  
? Corresponding: Bonfiglio A.

94.

? Title: Improving power grids transient stability via Model Predictive Control  
 ? Venue: Proceedings 2014 Power Systems Computation Conference Psc 2014  
 ? Year: 2014  
 ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 27  
 ? Doi: 10.1109/Psc.2014.7038364  
 ? Scopus ID: 2-s2.0-84946687291  
 ? Authors: Bonfiglio A.; Oliveri A.; Procopio R.; Delfino F.; Denegri G. B.; Invernizzi M.; Storace M.  
 ? Keywords: emergency control | load shedding | MPC | stability  
 ? Source Id: 21100377750  
 ? Author Ids:  
 36607521000;57200399832;7801615894;6603766602;7004649825;6701527755;7004134087  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.

95.

? Title: Day ahead microgrid optimization: A comparison among different models  
 ? Venue: Opt I 2014 1st International Conference on Engineering and Applied Sciences Optimization Proceedings  
 ? Year: 2014  
 ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 26  
 ? Scopus ID: 2-s2.0-84911872204  
 ? Pages: 1153-1165  
 ? Authors: Bonfiglio A.; Barillari L.; Bendato I.; Bracco S.; Brignone M.; Delfino F.; Pampararo F.; Procopio R.; Robba M.; Rossi M.  
 ? Keywords: Energy storage | Microgrids | Optimal power flow | Smartgrids  
 ? Source Id: 21100348502  
 ? Author Ids: 36607521000;55568698600;56426374300;15049159900;8580886100;6603766602;36782697700;7801615894;7004979187;7403708681  
 ? Authoraffiliationids:  
 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.

96.

? Title: Optimal control of active power flows in Smart Microgrids  
 ? Venue: 2014 IEEE Innovative Smart Grid Technologies Asia Isgt Asia 2014  
 ? Year: 2014  
 ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 3  
 ? DOI: 10.1109/ISGT-Asia.2014.6873853  
 ? Scopus ID: 2-s2.0-84906674294  
 ? Pages: 560-565  
 ? Authors: Bonfiglio Andrea; Brignone Massimo; Delfino Federico; Pampararo Fabio; Procopio Renato; Rossi Mansueto; Robba Michela; Bracco Stefano  
 ? Keywords: Microgrid | Optimal Control | Optimization | Power Systems | Renewable Energy Sources (RES)  
 ? Source Id: 21100332188  
 ? Author Ids: 36607521000;8580886100;6603766602;36782697700;7801615894;7403708681;7004979187;15049159900  
 ? Authoraffiliationids:  
 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153

? Corresponding: Bonfiglio A.

97.

? Title: Optimal control and operation of grid-connected photovoltaic production units for voltage support in medium-voltage networks

? Venue: IEEE Transactions on Sustainable Energy

? Year: 2014

? Type: Journal

? Subtype: Article

? Citations: 110

? Doi: 10.1109/Tste.2013.2280811

? Scopus ID: 2-s2.0-84890947343

? Issn: 19493029

? Volume: 5

? Issue: 1

? Pages: 254-263

? Authors: Bonfiglio Andrea; Brignone Massimo; Delfino Federico; Procopio Renato

? Keywords: Distributed generation | Feedback Linearization (FBL) | Losses reduction | Photovoltaic (PV) power | Pulsewidth modulation (PWM) inverter control | Voltage profile | Voltage support

? Quartile:

2025:

? Renewable Energy, Sustainability and the Environment (Q1, rank 20, percentile 93)

2014:

? Renewable Energy, Sustainability and the Environment (Q1, rank 9, percentile 92)

? Source Id: 19700177027

? Author Ids: 36607521000;8580886100;6603766602;7801615894

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Bonfiglio A.

98.

? Title: A set of KPIs to quantify environmental & technical benefits of renewing actions on transmission grids

? Venue: 2013 IEEE Grenoble Conference Powertech Powertech 2013

? Year: 2013

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Ptc.2013.6652233

? Scopus ID: 2-s2.0-84890867435

? Authors: Bonfiglio A.; Delfino F.; Denegri G. B.; Invernizzi M.; Procopio R.; Amann G.; Bessedé J. L.; Charnah R.; Luxa A.; Margarone M.; Monizza G.

? Keywords: energy resources | power distribution | power quality | power systems modelling | Power transmission

? Source Id: 21100276223

? Author Ids: 36607521000;6603766602;7004649825;6701527755;7801615894;36650448700;55903266900;6507942866;57205084075;57213411081;8968415000

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;109690794;109690794;109690794;109690794;109690794;109690794

? Corresponding: Bonfiglio A.

99.

? Title: An optimization algorithm for the operation planning of the University of Genoa smart polygeneration microgrid

? Venue: Proceedings of Irep Symposium Bulk Power System Dynamics and Control Ix Optimization Security and Control of the Emerging Power Grid Irep 2013

? Year: 2013



- ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 35  
 ? Doi: 10.1109/lrep.2013.6629397  
 ? Scopus ID: 2-s2.0-84890466863  
 ? Authors: Bonfiglio Andrea; Barillari Luca; Brignone Massimo; Delfino Federico; Pampararo Fabio; Procopio Renato; Rossi Mansueto; Bracco Stefano; Robba Michela  
 ? Source Id: 21100275408  
 ? Author Ids: 36607521000;55568698600;8580886100;6603766602;36782697700;7801615894;7403708681;15049159900;7004979187  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.
100.  
 ? Title: Definition and validation of key performance indicators to assess the effectiveness of "smarting actions" on a distribution network  
 ? Venue: IET Conference Publications  
 ? Year: 2013  
 ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 1  
 ? DOI: 10.1049/cp.2013.1262  
 ? Scopus ID: 2-s2.0-84897680992  
 ? Volume: 2013  
 ? Issue: 615 Cp  
 ? Authors: Bonfiglio Andrea; Delfino Federico; Denegri Gio Battista; Invernizzi Marco; Procopio Renato  
 ? Source Id: 5400152619  
 ? Author Ids: 36607521000;6603766602;7004649825;6701527755;7801615894  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.
101.  
 ? Title: The smart microgrid pilot project of the University of Genoa: Power and communication architectures  
 ? Venue: AIEA Annual Conference 2013 Innovation and Scientific and Technical Culture for Development AIEA 2013 Selected Proceedings Papers  
 ? Year: 2013  
 ? Type: Conference Proceeding  
 ? Subtype: Conference Paper  
 ? Citations: 4  
 ? DOI: 10.1109/aiea.2013.6666794  
 ? Scopus ID: 2-s2.0-84893384882  
 ? Authors: Bonfiglio A.; Barillari L.; Delfino F.; Pampararo F.; Procopio R.; Rossi M.; Invernizzi M.; Denegri G. B.; Bracco S.  
 ? Keywords: Energy management system | integration of private microgrids into public distribution networks | Smart grid  
 ? Source Id: 21101015978  
 ? Author Ids: 36607521000;55568698600;6603766602;36782697700;7801615894;7403708681;6701527755;7004649825;15049159900  
 ? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153;60025153;60025153  
 ? Corresponding: Bonfiglio A.
102.  
 ? Title: A dynamic decision model for Smart Grid real time optimal control

? Venue: 2012 IEEE International Energy Conference and Exhibition Energycon 2012  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 4  
? DOI: 10.1109/EnergyCon.2012.6348221  
? Scopus ID: 2-s2.0-84870845129  
? Pages: 587-592  
? Authors: Bonfiglio A.; Delfino F.; Minciardi R.; Procopio R.; Robba M.  
? Keywords: Modeling | Optimal Control | Renewable Energy | Smart Grids  
? Source Id: 21100223117  
? Author Ids: 36607521000;6603766602;7005785660;7801615894;7004979187  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

103.

? Title: Power system compensation and management strategies to meet EU 2020 climate&energygoals  
? Venue: IEEE Power and Energy Society General Meeting  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Doi: 10.1109/Pesgm.2012.6345083  
? Scopus ID: 2-s2.0-84870607154  
? Issn: 19449925  
? eISSN: 19449933  
? Authors: Bonfiglio A.; Delfino F.; Invernizzi M.; Pampararo F.; Peveri G.; Procopio R.  
? Keywords: energy resources | power distribution | power quality | power systems harmonics | power systems modeling | Power transmission  
? Quartile:  
2025:  
? Electrical and Electronic Engineering (Q3, rank 622, percentile 37)  
? Nuclear Energy and Engineering (Q3, rank 53, percentile 37)  
? Energy Engineering and Power Technology (Q3, rank 208, percentile 36)  
? Renewable Energy, Sustainability and the Environment (Q3, rank 232, percentile 25)  
? Source Id: 20600195623  
? Author Ids: 36607521000;6603766602;6701527755;36782697700;55512262200;7801615894  
? Corresponding: Bonfiglio A.

104.

? Title: A technique for the optimal control and operation of grid-connected photovoltaic production units  
? Venue: Proceedings of the Universities Power Engineering Conference  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 26  
? Doi: 10.1109/Upec.2012.6398657  
? Scopus ID: 2-s2.0-84872875108  
? Authors: Bonfiglio A.; Brignone M.; Delfino F.; Invernizzi M.; Pampararo F.; Procopio R.  
? Keywords: Feedback Linearization | Generated Distribution | Losses Reduction | Photovoltaic Power | PWM Inverter Control | Voltage Profile | Voltage Support  
? Source Id: 69722

? Author Ids: 36607521000;8580886100;6603766602;6701527755;36782697700;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

105.

? Title: The Smart Polygeneration Microgrid test-bed facility of Genoa University  
? Venue: Proceedings of the Universities Power Engineering Conference  
? Year: 2012  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 38  
? Doi: 10.1109/Upec.2012.6398656  
? Scopus ID: 2-s2.0-84872837707  
? Authors: Bonfiglio A.; Delfino F.; Pampararo F.; Procopio R.; Rossi M.; Barillari L.  
? Keywords: IEC 61850 | Low Voltage Smart Grid | Test-Bed Facility  
? Source Id: 69722  
? Author Ids: 36607521000;6603766602;36782697700;7801615894;7403708681;55568698600  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

106.

? Title: A feedback linearization scheme for the control of synchronous generators  
? Venue: Electric Power Components and Systems  
? Year: 2012  
? Type: Journal  
? Subtype: Article  
? Citations: 33  
? Doi: 10.1080/15325008.2012.722581  
? Scopus ID: 2-s2.0-84869847548  
? Issn: 15325008  
? eISSN: 15325016  
? Volume: 40  
? Issue: 16  
? Pages: 1842-1869  
? Authors: Bonfiglio Andrea; Delfino Federico; Invernizzi Marco; Perfumo Adriano; Procopio Renato  
? Keywords: feedback linearization | synchronous generators | voltage and power control  
? Quartile:  
2025:  
? Mechanical Engineering (Q2, rank 221, percentile 69)  
? Electrical and Electronic Engineering (Q2, rank 305, percentile 69)  
? Energy Engineering and Power Technology (Q2, rank 113, percentile 65)  
2012:  
? Energy Engineering and Power Technology (Q2, rank 50, percentile 69)  
? Mechanical Engineering (Q2, rank 165, percentile 67)  
? Electrical and Electronic Engineering (Q2, rank 272, percentile 55)  
? Source Id: 16031  
? Author Ids: 36607521000;6603766602;6701527755;36617661500;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;113212708;60025153  
? Corresponding: Bonfiglio A.

107.

? Title: Quantification of the environmental benefits provided by the application of state-of-the-art technologies to T&D grids  
? Venue: Cigre 2011 Bologna Symposium the Electric Power System of the Future Integrating Supergrids and Microgrids  
? Year: 2011

? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 3  
? Scopus ID: 2-s2.0-84877298988  
? Authors: Bonfiglio A.; Delfino F.; Denegri G. B.; Invernizzi M.; Pampararo F.; Procopio R.  
? Keywords: CO2 emission reduction | Network losses | Renewable energy integration | Smart grids  
? Source Id: 21100239401  
? Author Ids: 36607521000;6603766602;7004649825;6701527755;36782697700;7801615894  
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153  
? Corresponding: Bonfiglio A.

108.

? Title: Power and voltage control of a synchronous machine: A comparison among different approaches  
? Venue: 2011 IEEE Pes Trondheim Powertech the Power of Technology for A Sustainable Society Powertech 2011  
? Year: 2011  
? Type: Conference Proceeding  
? Subtype: Conference Paper  
? Citations: 1  
? Doi: 10.1109/Ptc.2011.6019275  
? Scopus ID: 2-s2.0-80053363225  
? Authors: Bonfiglio A.; Delfino F.; Pampararo F.; Procopio R.  
? Keywords: Feedback Linearization | Sliding Mode Control | Synchronous Generator  
? Source Id: 19900195048  
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