PERSONAL INFORMATION

Pierluigi Siano

Via Raffaele Vitolo n. 24, 4014, Nocera Inferiore, Salerno, Italy

+39 089 96 4294 +393204646454

psiano@unisa.it

http://docenti.unisa.it/005629/en/curriculum

Sex M | *Date of birth* 13/04/1973 | *Nationality* Italian

Replace with dates (from 2021 – to 2026)

Distinguished Visiting Professor of Electrical Energy Engineering, Electrical Power Systems

Department of Electrical and Electronic Engineering Science, University of Johannesburg, Johannesburg 2006, South Africa

- Professor of Electrical Energy Engineering carrying out both teaching and research activities

(from 2018 – to present)

Business or sector Education and Research

Associate Professor of Electrical Energy Engineering, Electrical Power Systems

Department of Management & Innovation Systems, University of Salerno, Via Giovanni Paolo II, 132, Fisciano (SA) - 84084 Italy, http://docenti.unisa.it/005629/en/curriculum

- Scientific Director of the Smart Grids and Smart Cities Laboratory with the Department of Management & Innovation Systems, University of Salerno
- Professor of Electrical Energy Engineering carrying out both teaching and research activities

(from 2015 – to 2018)

Business or sector Education and Research

Associate Professor of Electrical Energy Engineering, Electrical Power Systems

Department of Industrial Engineering, University of Salerno, Via Giovanni Paolo II, 132, Fisciano (SA) - 84084 Italy, http://docenti.unisa.it/005629/en/curriculum

- Professor of Electrical Energy Engineering carrying out both teaching and research activities

(from 2005 – to 2015)

Business or sector Education and Research

Assistant Professor of Electrical Energy Engineering, Electrical Power Systems

Department of Information and Electrical Engineering (2005-2010) and Department of Industrial Engineering (2011-2015), University of Salerno, Via Giovanni Paolo II, 132, Fisciano (SA) - 84084 Italy, http://docenti.unisa.it/005629/en/curriculum

- Professor of Electrical Energy Engineering carrying out both teaching and research activities

Business or sector Education and Research

WORK EXPERIENCE

(from 2001- to 2005)

Ph.D. degree in information and electrical engineering

Department of Information and Electrical Engineering, University of Salerno

- Power Systems operation and planning, Smart Grids

EDUCATION AND TRAINING

[Add separate entries for each course. Start from the most recent.]

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Communication skills

Replace with your communication skills. Specify in what context they were acquired. Example:
- Very good communication skills gained through my experience as professor

Organisational / managerial skills

Replace with your organisational / managerial skills. Specify in what context they were acquired. Example:
- Leadership: currently responsible for a team of 6 people at the University of Salerno

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

Driving licence

Replace with driving licence category/-ies. Example:
B

ADDITIONAL INFORMATION

Job-related skills

His research activities mainly concern the management and planning of smart cities and smart grids, the development of advanced technologies and smart infrastructures for refuelling or recharging zero-carbon vehicles, the economy and energy management, smart houses, and smart buildings, distributed micro-generation, generation systems from renewable sources. Further research activities are related to safety and security in the field of smart cities and smart grids, artificial intelligence, sustainable urban transport, electric vehicles, and mobility infrastructures.

He is the author of more than 630 (of which 514 in the last 10 years) scientific papers in international journals, volumes, and international conferences that have received over 13281 citations and an H-index equal to 55 on Scopus. In 2019, 2020, 2021 and 2022 he was included in the “Highly Cited Researchers List” by Clarivate Analytics. This ranking includes 1% of the authors of the most cited scientific articles in the last eleven years in the relevant scientific sector. He is in the ranking of the most prolific and cited scientists in the world published by John P. A Ioannidis, a professor at Stanford, in the highly accredited US scientific journal Plos Biology. Research collaboration related to the Spoke research topics with the Industrial Systems Institute (ISI), Patras, Greece and with international universities.

Editorial Activities

Editor of IEEE Access PES Section since 2019
Associate Editor of the IEEE Transactions on Power Systems since 2020
Associate Editor of the IEEE Transactions on Industrial Informatics since 2011
Associate Editor of IEEE Transactions on Industrial Electronics since 2018
Associate Editor of IET Renewable Power Generation since 2018
Editor of the journal Smart Cities, MDPI Publisher since 2018
Editor of Intelligent Industrial Systems, Springer 2014-2017
Guest Editor of IEEE Transactions on Industrial Electronics or Informatics for the following Special Sections:
- IEEE Transactions on Industrial Electronics, SS on Methods and Systems for a Smart Energy City 2017
- IEEE Transactions on Industrial Informatics, SS on Industrial and Commercial Demand Response 2017
- IEEE Transactions on Industrial Informatics and Transactions on Industrial Electronics, SS on New Trends in Intelligent Energy Systems 2013
- IEEE Transactions on Industrial Informatics, SS on Modeling and Simulation of Cyber-Physical Energy Systems 2013
- IEEE Transactions on Industrial Informatics, SS on Information Technologies in Smart Grids 2011
- IEEE Transactions on Industrial Electronics, SS on Smart Devices for Renewable Energy Systems 2010
- IEEE Transactions on Industrial Electronics, SS on Methods and Systems for Smart Grids Optimization 2009
- Journal of Internet Technology – SS on Industrial Applications of Big Data and Internet of Things 2015

Invited speaker at the following conferences/workshops

Renewable Electrical Energy Systems Workshop 2011, Polytechnic University of Catalonia, keynote: Renewable Energy and the Smart Grid

IEEE International Conference on Consumer Electronics 2014, Berlin, keynote: Demand Side Management and Energy Management Systems from a Consumer Electronics perspective

IEEE International Conference on Smart Energy Grid Engineering, 2015, Oshawa, Canada, keynote: Demand Response and Smart Grids

2nd International Conference on Green Energy Technology, 2017, Rome, Italy, keynote: Active Demand Response for Residential Electrical Loads

Activities related to international conferences

Chair of the IEEE IES Technical Committee on Smart Grids since 2017 and a member of the Technical Committee on Renewable Energy Systems of the IEEE IES
Vice Chair of the IEEE IES Technical Committee on Smart Grids from 2013 to 2016 and secretary of the IEEE IES Technical Committee on Smart Grids from 2011 to 2012
Special Sessions Co-Chair of IEEE International Symposium on Industrial Electronics 2010
Special Sessions Co-Chair of IEEE 16th International Conference on Environment and Electrical Engineering, 2016, Florence, Italy
Chair of technical track Power Systems II Demand Side Management, IEEE Industrial Electronics Conference, 2016, Florence, Italy
Vice President of Organizing Committee of the 2016 IEEE Industrial Electronics Conference, Florence, Italy
Special Sessions Co-Chair of IEEE 17th International Conference on Environment and Electrical Engineering, 2017, Milan, Italy
Chair of technical track: Power Systems and Smart Grids, IEEE International Symposium on Industrial Electronics 2018, Cairns, Australia
Chair of technical track Power Systems and Smart Grids, IEEE International Conference on Industrial Technology, 2018, Lyon, France
Technical Chair of IEEE International Conference on Smart Energy Systems and Technologies, 2018, Sevilla, Spain
Special Sessions Chair of 5th International Symposium on Environment-Friendly Energies and Applications, 2018, Rome, Italy
Chair for the technical track Renewable energy and Microgrids, IEEE International Conference on Industrial Electronics for Sustainable Energy Systems, 2018, Hamilton, New Zealand
Chair of the technical track: Technologies and infrastructures for smart grids, buildings, and cities, 16th IEEE International Conference on Industrial Informatics 2018, Porto, Portugal
Guest Editor of the 7th International Conference on Environment and Industrial Innovation, 2017, Kuala Lumpur, Malaysia
Program Chair 2nd International Conference on Green Energy Technology, 2017, Rome, Italy
Co-Chair of the 2017 International Conference on Environmental Science and Sustainable Energy, 2017, Suzhou, China
Technical Programme Chair of the 2nd International conference on Power System Analysis control and Optimization, 2015 Andhra Pradesh, India
Co-chair of the Symposium Advances in Industrial Networks and Intelligent Systems International Wireless Communications & Mobile Computing Conference, 2016, Cipro
Guest Editor of the 8th International Conference on Environment and Industrial Innovation Shanghai, China, 2018

Scientific coordinator of the unit of the University of Salerno and principal investigator of the following International and National research projects selected for funding based on calls that involved competitive peer review

System for the Residential Energy Savings with Integration of Air Conditioning, funded by the Italian Ministry of Economic Development, 2010-2013, the project activities have taken three years and about 2.2 millions of euro of total cost

Distributed management logics and Devices for electricity savings in active users installations-DEMAND- funded by the Italian Ministry of Economic Development, 2017-2020, twenty months and about 1.4 millions of euro of total cost

Development of mathematical models for hybrid electric vehicles modeling, funded by the Italian Ministry of Universities and Scientific, Technological Research under the Research Initiatives for Young Researchers (2002- 2003)

Integration of New and Renewable Energy into Urban Electrical Networks in collaboration with the Institute for Energy Systems, University of Edinburgh and under the British-Italian partnership programme for young Researchers (2005-2007), funded by the Italian Ministry of Education, University and Research and the British Council, about 14000 euro

“Optimizing and control of smart power grids” 111 project - Higher Education Discipline Innovation Project, funded by the Ministry of Education of China and by the State Administration of Foreign Experts Affairs of China. 2017-2021, five years and about 1.1 millions of euro of total cost

Applied Energy Uni-LAB Smart Grid Market Mechanism (SGMM) in collaboration with Prof. Yi Ding, of College of Electrical Engineering, Zhejiang University, Hangzhou, Zhejiang, China, Prof. Taiyou Yong, China Electric Power Research Institute (CEPRI), China, Prof. Christoph Meinrenken, Columbia University, United States of America. 2016-2020, 48 months

“Re-Energize Governance of Disaster Risk Reduction and Resilience for Sustainable Development” Belmont Forum Collaborative Research Action (CRA) on Disaster Risk, Reduction and Resilience, Full Call Title: DR32019 – Disaster Risk, Reduction, and Resilience (DR3)

Responsibility for DISA MIS for ORs 1.5 and 7.3 / 7.4 in the Borgo project: regional project for the development of the "Sustainable and Safe Mobility" Platform (Borgo 4.0 Project)

Participation to research projects

Scientific Research Program of Relevant National Interest (PRIN) 2002, funded by the Italian Ministry of Education, University and Research and entitled "Information and Communication Technology (ICT) for electric infrastructure operations", with the sub-project "Applying ICT to distribution networks: from the role of "transport provider" to "facilitator of competition". 2003-2004

Scientific Research Program of Relevant National Interest (PRIN) 2005, funded by the Italian Ministry of Education, University and Research and entitled "Tools and methods for evolution of subtransmission and distribution networks in liberalized electricity markets", with the sub-project "Electrical distribution networks: management of both critical operating conditions and Distributed Generation". 2006-2007

Scientific Research Program of Relevant National Interest (PRIN) 2008, funded by the Italian Ministry of Education, University and Research and entitled: "Integration of DG in smart microgrid based on ICT" with the sub-project "Methodologies for innovative management of microgrids in presence of distributed generation from renewable sources based on fourth generation telematic infrastructures". 2010-2012

Research project funded by the UE 7th Framework Programme and entitled: Concerted coordination for the promotion of efficient multimodal interfaces (DELTA)", 2009-2010. 2009-2010

Global Access NEtworked Systems Hub (GANESH) – "Development of a hw and sw platform for advanced mobile information services for users of local public transport based on distributed architecture", funded by Regione Campania, "Bando Misura 3.17 del POR Campania 2000/2006". 2008-2010

Railway Systems: Eco-sustainability and Energy Saving under the National Operational Programme (PON) Research and Competitiveness 2007-2013, co-financed by European resources of the European Fund for Regional Development (FESR). 2010-2013

Smart grids with distributed polygeneration systems POR Campania 2007/13- funded by Regione Campania. 2012-2014

Programma di Ricerca Scientifica e Formazione Nazionale dal titolo: “Sistema integrato di comando, controllo, protezione e supervisione di processi di produzione, trasmissione e distribuzione (SCADA integrato Col AdMin) dell'energia elettrica da fonti rinnovabili e non, con interfaccia-periferiche verso campo dei processi, atto all’utilizzo razionale dell’energia elettrica”, PON 2007-2013

Programma di Ricerca Scientifica e Formazione Nazionale ammesso ai finanziamenti previsti dal Programma Operativo Nazionale Ricerca e Competitività 2007-2013 dal titolo: “Strumenti e soluzioni innovative a supporto della gestione della manutenzione di reti elettriche in presenza di forte penetrazione di generatori di energia rinnovabile”, PON 2007-2013, 2011-2014

Programma di Ricerca Scientifica Nazionale dal titolo “METrologia per l’Energia e le Reti - METER”; BANDO: PON R&C 2007-2013, 2014-2016

Programma di Ricerca Scientifica Nazionale dal titolo “Dispositivi, tecniche e tecnologie abilitanti per le Fonti Energetiche Rinnovabili verso la Green Economy - FERGE”; BANDO: PON R&C 2007-2013, 2013-2016

Programma di Ricerca Scientifica Nazionale dal titolo “CERVIA - Metodi di CERtificazione e Verifica Innovativi ed Avanzati, progetto a valere sullo strumento di finanziamento Bando MIUR “Programma Operativo Nazionale – Ricerca e Competitività (PON “R&C”) 2007-2013, 2014–2017.

Member of the International Advisor Program Committee of IEEE International Conference on Consumer Electronics 2014, 2015, 2016 and 2017, Berlin

Member of the editorial board of many international journals. Invited member of more than 50 Technical Program Committees of International Conferences

Reviewers for many national and international research projects

Since 2015 titular professor of full semester courses belonging to the scientific discipline ING-IND/33 - electric systems for energy, subject area 09/E2 - electrical energy engineering

Awards received at national and/or international level

In 2019, 2020, 2021 and 2022 included among the Highly Cited Researchers list from the ISI Web of Science Group for the Engineering category.
According to a new study by researchers at Stanford University in the US: in year 2017, 2019, 2020 and 2021 he has been ranked among most cited scientists in the world.
As highlighted by the "Essential Science Indicators" of the Web of Science Core Collection of WoS, author of many highly cited papers that have received enough citations to be placed in the top 1% articles of the academic sector of Engineering.

He has been added to the prestigious ranking of Top Scientists (Computer Science & Electronics) at the following URL:

http://www.guide2research.com/u/pierluigi-siano

Among Top Italian Scientists of Virtual Italian Academy:

http://www.topitalianscientists.org/top-italian-scientists/Pierluigi%20Siano

Since 2014 IEEE Senior Member
In 2010 achievement of award for the superlative job as Special Sessions Co-Chair of IEEE International Symposium on Industrial Electronics 2010
In 2011, 2012 and 2014 achievement of an award for the outstanding contributions to the IEEE Transactions on Industrial Informatics (TII) as Associate Editor received by the Editor-in-Chief of IEEE TII
In 2015 achievement of an award received by the Editor-in-Chief of IEEE Transactions on Industrial Electronics (TIE) in recognition and appreciation for his services as Guest Editor of the IEEE Transactions on Industrial Electronics, and for his timely contributions to its positive impacts on the scientific
Since 2017 elected member of IES Administrative Committee
The article: P. Siano, D. Sarno Assessing the benefits of residential demand response in a real time distribution energy market, 2016 Applied Energy, vol. 161, p. 533-551 received from the editors of Applied Energy the Award of Highly Cited and ESI-Hot Paper in the May/June 2017 Clarivate Analytics Citation Report, Web of Science
The article: P. Siano, Demand response and smart grids - A survey, 2014 Renewable & Sustainable Energy Reviews, vol. 30, pp. 461-478: is the most cited article published since 2012 in the journal articles according to Scopus
As highlighted by the "Essential Science Indicators" of the Web of Science Core Collection of WoS, author of 8 highly cited papers that have received enough citations to be placed in the top 1% articles of the academic sector of Engineering.
The articles have been selected by the editor as “Feature Paper--high-quality paper and greatly recommended”:
- P. Siano et alii, A Decentralized Multi-Agent-Based Approach for Low Voltage Microgrid Restoration, Energies 2017, 10(10), 1491
- P. Siano et alii, Constant Power Loads (CPL) with Microgrids: Problem Definition, Stability Analysis and Compensation Techniques, Energies 2017, 10(10), 1656

ADDITIONAL INFORMATION

Publications

List of Scientific Publications

International journals

1. 2022 Eslahi M., Vahidi B., Siano P. (2022). A Flexible Risk-Averse Strategy Considering Uncertainties of Demand and Multiple Wind Farms in Electrical Grids. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 18, p. 2255-2263, ISSN: 1551-3203, doi: 10.1109/TII.2021.3103117

2. 2022 Burgio A., Cimmino D., Jasinski M., Leonowicz Z., Siano P. (2022). A Heuristic Method to Calculate the Capacity of Residential PV-BESS in Providing Upward Flexibility Services in Energy Communities. IEEE ACCESS, vol. 10, p. 2908-2928, ISSN: 2169-3536, doi: 10.1109/ACCESS.2021.3139189
3. 2022 Alhasnawi B. N., Jasim B. H., Siano P., Alhelou H. H., Al-Hinai A. (2022). A Novel Solution for Day-Ahead Scheduling Problems Using the IoT-Based Bald Eagle Search Optimization Algorithm. INVENTIONS, vol. 7, p. 48-67, ISSN: 2411-5134, doi: 10.3390/inventions7030048
4. 2022 Rashidizadeh-Kermani H., Vahedipour-Dahraie M., Shafie-Khah M., Siano P. (2022). A Peer-to-Peer Energy Trading Framework for Wind Power Producers with Load Serving Entities in Retailing Layer. IEEE SYSTEMS JOURNAL, vol. 16, p. 649-658, ISSN: 1932-8184, doi: 10.1109/JSYST.2020.3045370
5. 2022 Mahdavi M., Haes Alhelou H., Siano P., Loia V. (2022). A Robust Mixed-Integer Programing Model for Reconfiguration of Distribution Feeders Under Uncertain and Variable Loads Considering Capacitor Banks, Voltage Regulators, and Protective Relays. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 18, p. 7790-7803, ISSN: 1551-3203, doi: 10.1109/TII.2022.3141412
6. 2022 Alabassi A., Jahromi A. N., Karimipour H., Dehghantanha A., Siano P., Leung H. (2022). A Self-Tuning Cyber-Attacks' Location Identification Approach for Critical Infrastructures. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 18, p. 5018-5027, ISSN: 1551-3203, doi: 10.1109/TII.2021.3133361
7. 2022 Hui H., Siano P., Ding Y., Yu P., Song Y., Zhang H., Dai N. (2022). A Transactive Energy Framework for Inverter-based HVAC Loads in a Real-time Local Electricity Market Considering Distributed Energy Resources. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 18, p. 8409-8421, ISSN: 1551-3203, doi: 10.1109/TII.2022.3149941
8. 2022 Eslahi M., Shafie-khah M., Siano P. (2022). A conservative framework for obtaining uncertain bands of multiple wind farms in electric power networks by proposed IGDT-based approach considering decision-maker's preferences. JOURNAL OF CLEANER PRODUCTION, vol. 358, p. 131963-131975, ISSN: 0959-6526, doi: 10.1016/j.jclepro.2022.131963
9. 2022 Alhasnawi B. N., Jasim B. H., Mansoor R., Alhasnawi A. N., Rahman Z. -A. S. A., Haes Alhelou H., Guerrero J. M., Dakhil A. M., Siano P. (2022). A new Internet of Things based optimization scheme of residential demand side management system. IET RENEWABLE POWER GENERATION, vol. 16, p. 1992-2006, ISSN: 1752-1416, doi: 10.1049/rpg2.12466
10. 2022 Rigatos G., Abbaszadeh M., Siano P. (2022). A nonlinear optimal control approach for permanent magnet AC motors with non-sinusoidal back EMF. ELECTRICAL ENGINEERING, vol. 104, p. 2293-2318, ISSN: 0948-7921, doi: 10.1007/s00202-021-01475-3
11. 2022 Rigatos G., Hamida M. A., Abbaszadeh M., Siano P. (2022). A nonlinear optimal control approach for shipboard AC/DC microgrids. ELECTRIC POWER SYSTEMS RESEARCH, vol. 209, p. 108024-108046, ISSN: 0378-7796, doi: 10.1016/j.epsr.2022.108024
12. 2022 Rigatos, Gerasimos, Zervos, Nikolaos, Siano, Pierluigi, Abbaszadeh, Masoud, Pomares, Jorge, Wira, Patrice (2022). A nonlinear optimal control approach for underactuated power-line inspection robots. ROBOTICA, p. 1-31, ISSN: 0263-5747, doi: 10.1017/S026357472100148X
13. 2022 Rahgozar S., Zare Ghaleh Seyyedi A., Siano P. (2022). A resilience-oriented planning of energy hub by considering demand response program and energy storage systems. JOURNAL OF ENERGY STORAGE, vol. 52, p. 104841-104857, ISSN: 2352-152X, doi: 10.1016/j.est.2022.104841
14. 2022 Goudarzi A., Fahad S., Ni J., Ghayoor F., Siano P., Haes Alhelou H. (2022). A sequential hybridization of ETLBO and IPSO for solving reserve-constrained combined heat, power and economic dispatch problem. IET GENERATION, TRANSMISSION & DISTRIBUTION, vol. 16, p. 1930-1949, ISSN: 1751-8687, doi: 10.1049/gtd2.12404
15. 2022 Rahim S., Siano P. (2022). A survey and comparison of leading-edge uncertainty handling methods for power grid modernization. EXPERT SYSTEMS WITH APPLICATIONS, vol. 204, p. 117590-117612, ISSN: 0957-4174, doi: 10.1016/j.eswa.2022.117590
16. 2022 Dorosti P., Moazzami M., Fani B., Siano P. (2022). An adaptive protection coordination scheme for microgrids with optimum PV resources. JOURNAL OF CLEANER PRODUCTION, vol. 340, p. 130723-130733, ISSN: 0959-6526, doi: 10.1016/j.jclepro.2022.130723
17. 2022 Sofana Reka S., Venugopal P., Ravi V., Alhelou H. H., Al-Hinai A., Siano P. (2022). Analysis of Electric Vehicles with an Economic Perspective for the Future Electric Market. FUTURE INTERNET, vol. 14, p. 172-188, ISSN: 1999-5903, doi: 10.3390/fi14060172
18. 2022 Dolatabadi M., Siano P., Soroudi A. (2022). Assessing the Scalability and Privacy of Energy Communities by Using a Large-Scale Distributed and Parallel Real-Time Optimization. IEEE ACCESS, vol. 10, p. 69771-69787, ISSN: 2169-3536, doi: 10.1109/ACCESS.2022.3187204
19. 2022 Zare Ghaleh Seyyedi A., Nejati S. A., Parsibenehkohal R., Hayerikhiyavi M., Khalafian F., Siano P. (2022). Bi-level sitting and sizing of flexi-renewable virtual power plants in the active distribution networks. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, p. 107800-107813, ISSN: 0142-0615, doi: 10.1016/j.ijepes.2021.107800

20. 2022 Naga Sai Kalyan C. H., Srikanth Goud B., Rami Reddy C., Bajaj M., Sharma N. K., Alhelou H. H., Siano P., Kamel S. (2022). Comparative Performance Assessment of Different Energy Storage Devices in Combined LFC and AVR Analysis of Multi-Area Power System. ENERGIES, vol. 15, p. 629-650, ISSN: 1996-1073, doi: 10.3390/en15020629
21. 2022 Mahela O. P., Khosravy M., Gupta N., Khan B., Alhelou H. H., Mahla R., Patel N., Siano P. (2022). Comprehensive overview of multi-agent systems for controlling smart grids. CSEE JOURNAL OF POWER AND ENERGY SYSTEMS, vol. 8, p. 115-131, ISSN: 2096-0042, doi: 10.17775/CSEEJPES.2020.03390
22. 2022 Dehghani M., Ghiasi M., Niknam T., Rouzbehi K., Wang Z., Siano P., Alhelou H. H. (2022). Control of LPV Modeled AC-Microgrid Based on Mixed H2/H∞ Time-Varying Linear State Feedback and Robust Predictive Algorithm. IEEE ACCESS, vol. 10, p. 3738-3755, ISSN: 2169-3536, doi: 10.1109/ACCESS.2021.3139341
23. 2022 Haesalhelou H., Parthasarathy H., Nagpal N., Agarwal V., Nagpal H., Siano P. (2022). Decentralized Stochastic Disturbance Observer-Based Optimal Frequency Control Method for Interconnected Power Systems with High Renewable Shares. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 18, p. 3180-3192, ISSN: 1551-3203, doi: 10.1109/TII.2021.3107396
24. 2022 Kabalci E., Kabalci Y., Siano P. (2022). Design and implementation of a smart metering infrastructure for low voltage microgrids. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol. 134, p. 107375-107387, ISSN: 0142-0615, doi: 10.1016/j.ijepes.2021.107375
25. 2022 Besharatifard H., Hasanzadeh S., Heydarian-Forushani E., Alhelou H. H., Siano P. (2022). Detection and Analysis of Partial Discharges in Oil-Immersed Power Transformers Using Low-Cost Acoustic Sensors. APPLIED SCIENCES, vol. 12, p. 3010-3021, ISSN: 2076-3417, doi: 10.3390/app12063010
26. 2022 Javad Mirzaei M., Siano P. (2022). Dynamic long-term expansion planning of electric vehicle parking lots considering lost opportunity cost and energy saving. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol. 140, p. 108066-108082, ISSN: 0142-0615, doi: 10.1016/j.ijepes.2022.108066
27. 2022 Goli P., Jasthi K., Gampa S. R., Das D., Shireen W., Siano P., Guerrero J. M. (2022). Electric Vehicle Charging Load Allocation at Residential Locations Utilizing the Energy Savings Gained by Optimal Network Reconductoring. SMART CITIES, vol. 5, p. 177-205, ISSN: 2624-6511, doi: 10.3390/smartcities5010012
28. 2022 Azimian M., Amir V., Javadi S., Siano P., Alhelou H. H. (2022). Enabling demand response for optimal deployment of multi-carrier microgrids incorporating incentives. IET RENEWABLE POWER GENERATION, p. 1-18, ISSN: 1752-1416, doi: 10.1049/rpg2.12360
29. 2022 Tabar V. S., Ghassemzadeh S., Tohidi S., Siano P. (2022). Enhancing information security of renewable smart grids by utilizing an integrated online-offline framework. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol. 138, p. 107954-107971, ISSN: 0142-0615, doi: 10.1016/j.ijepes.2022.107954
30. 2022 Sohrabi Tabar, Vahid, Tohidi, Sajjad, Ghassemzadeh, Saeid, Siano, Pierluigi (2022). Enhancing security and observability of distribution systems with optimal placement of µPMUs and firewalls. INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol. 135, p. 107601-107615, ISSN: 0142-0615, doi: 10.1016/j.ijepes.2021.107601
31. 2022 Rashidizadeh-Kermani H., Vahedipour-Dahraie M., Shafie-Khah M., Siano P. (2022). Evaluating the Impact of Bilateral Contracts on the Offering Strategy of a Price Maker Wind Power Producer. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 18, p. 4331-4341, ISSN: 1551-3203, doi: 10.1109/TII.2021.3124900
32. 2022 Sarno D., Siano P. (2022). Exploring the Adoption of Service-Dominant Logic as an Integrative Framework for Assessing Energy Transitions. SUSTAINABILITY, vol. 14, p. 9755-9780, ISSN: 2071-1050, doi: 10.3390/su14159755
33. 2022 Gbadamosi S. L., Nwulu N. I., Siano P. (2022). Harmonics Constrained Approach to Composite Power System Expansion Planning with Large-Scale Renewable Energy Sources. ENERGIES, vol. 15, p. 4070-4084, ISSN: 1996-1073, doi: 10.3390/en15114070
34. 2022 Wang J., Sun Y., Mahfoud R. J., Alhelou H. H., Siano P. (2022). Integrated modeling of regional and park-level multi-heterogeneous energy systems. ENERGY REPORTS, vol. 8, p. 3141-3155, ISSN: 2352-4847, doi: 10.1016/j.egyr.2022.02.089
35. 2022 Vahedipour-Dahraie M., Rashidizadeh-Kermani H., Parente M., Shafie-Khah M., Siano P. (2022). Investigating the Impact of External Demand Response Flexibility on the Market Power of Strategic Virtual Power Plant. IEEE ACCESS, vol. 10, p. 84960-84969, ISSN: 2169-3536, doi: 10.1109/ACCESS.2022.3197908
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