Fabrizio Sossan – Curriculum Vitae

Associate Professor of Power Systems

Haute Ecole Spécialisée de Suisse Occidentale (HES-SO Valais-Wallis)

Institute of Sustainable Energy

23 Rue de l'industrie

1950 Sion Switzerland

Email: fabrizio.sossan@hevs.ch

Links: Personal webpage | Google Scholar | Research Gate | Scopus | ORCID iD

Education

08/2014 Ph.D. in Electrical Engineering, Technical University of Denmark (DTU), Denmark, with the 02/2010 thesis "Indirect control of flexible demand for power system applications". M.Sc. in Computer

Engineering (mark: 110/110), University of Genova, Italy.

Academic and professional appointments

11/2022 – present	HES-SO Valais-Wallis, Associate Professor of Power Systems (Switzerland)
03/2019 - 09/2022	MINES Paris-PSL, Associate Professor of Renewable Energies (France)
06/2021 - 09/2022	MINES Paris-PSL, Director of the specialized master "Alternative Energies for the Future"
	(France)
03/2020 - 09/2022	Modbess, Cofounder and ad-interim CTO (USA)
08/2018 - 02/2019	ETHZ, Researcher (Switzerland)

 $\begin{array}{lll} 11/2017-07/2018 & NREL, \, Guest \, researcher \, (USA) \\ 05/2014-10/2017 & EPFL, \, Researcher \, (Switzerland) \\ 01/2011-04/2014 & DTU, \, PhD \, student \, (Denmark) \\ 10/2010-12/2010 & RIS\emptyset, \, research \, assistant \, (Denmark) \end{array}$

03/2010 - 09/2010 ANSALDO SISTEMI INDUSTRIALI, Automation Engineer (Italy)

01/2008 - 01/2010 Self-employed during studies, Programmer (Italy)

Research Funding

2024 - 2027	(PI and WP leader) Innovative Storage Technology And Operations In Hydropower, (STOR-HY),
	Horizon Europe project. Fund: CHF 1.0 million.
2023 - 2027	(Project owner and PI) Energy Storage Infrastructure for 100% Production from Renewables and
	Energy Self-Sufficiency in Switzerland (STORE), Innosuisse Flagship 108.230. Fund: CHF 4.2 mil-
	lion.
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2023 – 2024 (PI) More resilient microgrids and grids (ResiNet). Fund: CHF 220'000 (my share: CHF 70'000). 2022 (Project owner and PI) Financing of Laboratory on Integrated Energy Systems, Region Sud -

Provence Alpes Cote d'Azur. Fund: € 300'000.

2019 – 2023 (PI) Hydropower Extending Power System Flexibility (XFLEX Hydro), H2020 innovation action.

Fund: € 285'000.

2019 – 2021 (PI and WP leader) Optimization of Regional Infrastructures for the Transition to Electric and Connected Autonomous Vehicles (EVA), ERA-NET SES project. Fund: € 100'000.

Compiled on May 9, 2025.

2018 - 2021

(Main author) Licensing of patent application 62/354,828 to Eaton corporation. Fund: $\leq 30'000$ per year.

Supervised Ph.D. students

2024 - present

1. Mr. Keju Jia (EPFL), Siting and sizing of energy storage in the Swiss transmission grid (shared supervision with Prof. Paolone).

2020 - 2023

 Dr. Biswarup Mukherjee (MINES ParisTech), Optimization methods for scheduling the charge of electric vehicles and planning their charging infrastructure (cosupervisor 30%: G. Kariniotakis).

2019 - 2023

3. Dr. Stefano Cassano (MINES ParisTech), Control and scheduling of hybrid hydropower plants with batteries for enhanced flexibility in future power systems (cosupervisor 30%: G. Kariniotakis). ¹

Co-supervised Ph.D. students

2019 - 2022

1. Dr. Rahul Gupta (EPFL), Dispatching controllable resources in low-voltage power grids (supervisor: Prof. M. Paolone).

2017 - 2021

2. Dr. Yihui Zuo (EPFL), Impact of Battery Energy Storage Systems on the Dynamic Behavior of Low-inertia Power Grids (supervisor: Prof. M. Paolone).

Teaching

2024 - present

Energy Storage Systems (3 ECTS), EPFL EE-466. This course reviews the main energy storage technologies, their attributes, mathematical models, and applications (stationary and mobile), from design to operations and control. Battery systems are given special focus.

2022-present

Électricité de base (5 ECTS). DC circuits. This course teaches the fundamentals of circuit theory analysis. Topics are: Ohm's and Kirchhoff laws, superposition, Thevenin and Norton equivalent circuits, and laboratories.

2022 – present

Réseaux Électriques 1 (2 ECTS). This course provides an introduction to the structure and operational principles of power grids. Topics are: structure and organization of vertically unbundled power systems, main components (power plants, lines, transformers), operational meaning of active and reactive power, introduction to electricity markets.

2022 – present

Réseaux Électriques 2 (6 ECTS). This course teaches formal tools for power systems analysis: network calculus, load flow equations, frequency and voltage control, power plants' synchronization, and laboratories.

2021 - 2022

Introduction to Power Systems (16 hours per semester). "Enseignement spécialisé" to master's students of the civil engineering program of MINES ParisTech, and energy engineering program of PSL. It delivers rigorous lectures on network calculus, load flows, and frequency control.

2021

Energy storage for renewable-based power systems (3 hours per semester). Guest lecture to master's students of the civil engineering program of MINES ParisTech. This course explains operating principles, components, operational requirements, and main applications of modern energy storage technologies and their applications.

2019 - 2021

AC circuits and phasors (3 hours per semester). Fundamentals of AC circuit analysis (AC voltage, phasors, active power, reactive power).

¹For reasons related to the functioning of the doctoral school of this Institute, I do not appear as a supervisor on the cover page of the publicly available manuscript of this thesis; a formal certificate of supervision to complement and verify the information of this CV is available at this link.

2019 - 2021

Renewable energy technologies (18 hours per semester). Fundamentals of energy conversion and renewable generation.

Invited presentations and seminars

2024

16. Sossan, F. (2024 November). La flexibilité comme alternative au renforcement du réseau (in French). Workshop on Flexibilité des Réseaux de Distribution, Switzerland (Yverdonles-Bains).

2024

15. **Sossan, F.** (2024 October). Infrastruttura di stoccaggio di energia per una produzione 100% da rinnovabili in Svizzera. Seminar, VSE/AES Multidis meeting with the directors of Swiss-Italian DSOs, Switzerland (Lugano).

2024

14. Sossan, F., & Roduit, P. (2024 September). Flexibilité dans les réseaux de distribution. Seminar, Multidis meeting with the directors of Swiss-French DSOs, Switzerland.

2024

13. **Sossan, F.** (2024 September). Energy Storage Infrastructure for 100% renewable generation. Seminar, VSE/AES meeting with the directors of Swiss-French DSOs, Switzerland (Martigny).

2024

12. **Sossan, F.** (2024 September). Experimental validation of grid-forming converters in a low-inertia setting. Invited talk at DynPower 2024, Switzerland (Aarau).

2024

11. **Sossan, F.** (2024 July). Increasing energy storage capacity of hydropower plants: a perspective on quick ramping rates. Invited talk at the workshop "The role of storage capacity of hydropower plants" organized by the PEN@Hydropower association. Online.

2022

10. Sossan, F. (2022 March). Stress-informed model predictive control of hybrid hydropower. Seminar, Waterloo Institute Sustainable Energy (WISE) and University of Waterloo, Canada.

2020

9. Sossan, F. (2020 August). Leveraging autonomous driving of electric vehicles to provide ancillary services to the distribution grid. Panel presentation, session "Electric Vehicles as Flexible Demand-side Resources: Research Progress, Obstacles and Pilot Projects", General Meeting of IEEE Power Engineering Society (PESGM).

2019

8. Sossan, F. (2019 November). Dispatching the operation of electrical distribution systems and providing multiple ancillary services to the power grid with grid-connected batteries. Seminar, Monash University, Australia.

2019

7. Sossan, F. (2019 May). Dispatch and clustering of ancillary services with distributed energy storage. Seminar, Tsinghua University (Prof. Z. Hu's lab), China.

2018

6. Sossan, F. (2018 August). Dispatch and Primary Frequency Control with Distributed Electrochemical Storage Systems: a System-wise Validation via Real-Time Simulation. Panel presentation, session "Real-Time Simulation and Testing of Multi-Domain Systems using Detailed Modeling and Experimental Validation", General Meeting of IEEE Power Engineering Society (PESGM).

2018

5. Sossan, F. (2018 June). Dispatch and clustering of ancillary services from distributed storage. Tutorial, opening session on "Modeling and applications of energy storage systems in power grids", PSCC.

2017

4. Sossan, F. (2017 December). Achieving the Dispatchability of Stochastic Power Flows by Distributed Control of Dispersed Energy Resources. Seminar, National Renewable Energy Laboratory (NREL), USA.

2017

3. Sossan, F., & Paolone, M. (2017 July). Aggregation of Power Capabilities of Heterogeneous Resources for the Real-Time Optimal Control of Active Distribution Networks. Panel presentation, session "Modern Heuristic Optimization Techniques for Renewable Energy Sources Integration with Energy Storage Devices: Optimization Under Uncertainty", General Meeting of IEEE Power Engineering Society (PESGM).

2017

2. Sossan, F. (2017 March). Dispatching active distribution networks through electrochemical storage systems and demand side management. Seminar, University of Genova, Italy.

2016

1. Sossan, F. (2016 February). Evaluation of the impact of dispatched-by-design operation on power system reserve requirements. Invited Presentation, Future Electric Power Systems and the Energy Transition International conference, Champery, Switzerland.

Awards and mentions

2021

Accreditation from CapEnergies. Sossan, F., An experimental infrastructure for research on integrated energy systems. CapEnergies is a competitiveness cluster whose direction and evaluation boards are served by major French energy industries. CapEnergies awards projects with demonstrated research excellence and potential for industrial applications and significant socio-economic impacts.

2020

Top 5% paper. Cassano, S., Nicolet, C., & Sossan, F. (2020). Reduction of Penstock Fatigue in a Medium-Head Hydropower Plant Providing Primary Frequency Control. In 2020 55th International Universities Power Engineering Conference (UPEC). IEEE. Publisher Link — Preprint. Best paper award. Valenciano López, A., Bozorg, M., Sossan, F., & Paolone, M. (2018). An econometric model of the regulating power price for interconnected power systems: the case of

2018

econometric model of the regulating power price for interconnected power systems: the case of the nord pool market. In 15th International Conference on the European Energy Market (EEM). IEEE. Publisher Link — Preprint.

2013

Best poster paper award. Sossan, F., Marinelli, M., Costanzo, G. T., & Bindner, H. (2013). Indirect control of DSRs for regulating power provision and solving local congestions. In 2013 IEEE International Youth Conference on Energy (IYCE). IEEE. Publisher Link — Preprint.

Media appearance

2024

RSI (Radiotelevisione Svizzera Italiana), while covering the academic offer of my university, featured a laboratory of my class.

2023

PV magazine covers the work of Biswarup Mukherjee and mine on deployment of EV charging stations.

Services to the profession

2019-2022

Associate Editor of Elsevier Sustainable Energy, Grids and Networks (SEGAN).

2019 - present

Member of the technical program committee of the Power Systems Computation Conference (PSCC).

2018 - 2019

Member of the technical program committee of IEEE SmartGridComm and session chair.

2014 - present

Reviewer for among the most important international journals (IEEE Transaction on Sustainable Energy, IEEE Transactions on Smart Grids, IEEE Transactions on Industrial Informatics, IEEE Transactions on Industrial Electronics, Elsevier SEGAN, Elsevier Renewable Energy, Elsevier Science of Total Environment, Elsevier Energy, and Energies) and major international conferences (PSCC, IEEE ISGT, IEEE Powertech) of the power systems community.

Working groups and professional societies CIGRE working group C6.43, Aggregation of Battery Energy Storage Systems 2021 - present 2020 - presentCIRED working group 2019-4, Storage Technologies as an Opportunity for Distribution Systems Member of the ASI camera benchmark campaign, in the context of the IEA PVPS Task 16 on 2018 - 2019Solar Resource for High-penetration and Large-scale Applications. Member of IEEE, and IEEE Power Engineering Society 2012 – present Other services 2024 Ph.D. thesis jury member, Mr. Wadih Naim (KTH Royal Institute of Technology), Data Importance in Power System Asset Management. 2022 Ph.D. thesis jury member, Mr. Gabriele Mosaico (University of Genova), Simulation, forecasting, and control in power system analytics: methodological aspects and applications. 2022 Ph.D. thesis jury member, Mr. Luca Briano (University of Genova), Ricerca di soluzioni per la sostituzione o riduzione del gas esafluoruro di zolfo nel sistema di isolamento dei TV. 2020 Ph.D. thesis jury member, Ms. Paola Pongiglione (University of Genova), Optimal operation and planning of transmission and distribution networks: towards renewable sources and storage integration. 2020 M.Sc. thesis evaluator, Mr. Sovljanski Vladimir (EPFL), Optimal Planning of Electric Vehicle Charging Stations and Photovoltaic Generation in a Distribution Network. External member of the Ph.D. school board. Department of Power System Engineering and 2019 - present Transportation Systems, University of Genova.

Evaluator of research projects for several research funding bodies.

List of publications

(Reverse chronological order and reverse numbering)

Book chapters and Technical Brochures

Sossan, F., & Alvarado, F. (2022) Battery energy storage systems for applications in distribution grids, in book Planning and Operation of Active Distribution Networks, Springer International Publishing.

Peer-reviewed publications in scientific journals

38. Cassano, S., & Sossan, F. (2025). Scheduling power-intensive operations of Battery Energy Storage Systems and application to hybrid hydropower plants. Applied Energy, 386, 125559. Link to open repository. Link to publisher

37. Cassano, S., & Sossan, F. (2024). Scheduling Power-Intensive Operations of Battery Energy Storage Systems and Application to Hybrid Hydropower Plants. Revision 0 is currently under review in Applied Energy. Link to publisher

36. Hatziargyriou, N., Joos, G., Skarvelis-Kazakos, S., Susanto, J., Offergeld, T., Kenarangui, Y., Verma, S., Ndiaye, I., Oulis-Rousis, A., Schwaegerl, C., Broderick, S., Reilly, Buchholz, B., Yamashita, K., Saridaki, G., Sossan, F., Valliou, M., Blavette, A., Evans, H., Fan, L., & Wang, H. (2024). Aggregation of Battery Energy Storage and Distributed Energy Resources. Cigre Technical Brochures. Link to publisher

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2019 - present

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- 35. Grammatikos, P., Le Boudec, J. Y., Paolone, M., & Sossan, F. (2024). Computation 2024 of ultra-short-term prediction intervals of the power prosumption in active distribution networks. Electric Power Systems Research, 235, 110780. Link to publisher
- 2023 34. Gupta, R., & Sossan, F. (2023). Optimal Sizing and Siting of Energy Storage Systems Considering Curtailable Photovoltaic Generation in Power Distribution Networks. Applied Energy. PDF from my website. Link to publisher
 - 33. Mukherjee, B., & Sossan, F. (2023). Optimized Planning of Chargers for Electric Vehicles in Distribution Grids Including PV Self-consumption and Cooperative Vehicle Owners. IET Energy Conversion and Economics. PDF from my website. Link to publisher
 - 32. Ledur, S., Molinier, R., Sossan, F., Alais, J. C., Faris, M. D. E. A., & Kariniotakis, G. (2022). Identification and quantification of the flexibility potential of a complex industrial process for ancillary services provision. Electric Power Systems Research, 212, 108396. Link to open repository. Link to publisher
 - 31. Mukherjee, B., & Sossan, F. (2022). Optimal planning of single-port and multi-port charging stations for electric vehicles in medium voltage distribution networks. IEEE Transactions on Smart Grid. PDF from my website. Link to publisher
 - 30. Cassano, S., & Sossan, F. (2022). Model Predictive Control for a Medium-head Hydropower Plant Hybridized with Battery Energy Storage to Reduce Penstock Fatigue. Electric Power Systems Research, 213, 108545. PDF from my website. Link to open repository
 - 29. Gupta, R., Sossan, F., & Paolone, M. (2022). Model-less Robust Voltage Control in Active Distribution Networks using Sensitivity Coefficients Estimated from Measurements. Electric Power Systems Research/Power Systems Computation Conference (Accepted). Link to open repository
 - 28. Cassano, S., & Sossan, F. (2022). Stress-informed Control of Medium- and High-head Hydropower Plants to Reduce Penstock Fatigue. Sustainable Energy, Grids and Networks, 31, 100688. PDF from my website. Link to open repository. Link to publisher
 - 27. Gupta, R., Sossan, F., & Paolone, M. (2021). Countrywide PV hosting capacity and energy storage requirements for distribution networks: The case of Switzerland. Applied Energy, Volume 281, 116010. PDF from my website. Link to open repository. Link to publisher
 - 26. Massucco, S., Paolone, M., Pongiglione, P., Silvestro, F., & Sossan, F. (2021). Siting and sizing of energy storage systems: Towards a unified approach for transmission and distribution system operators for reserve provision and grid support. Electric Power Systems Research, 190. PDF from my website. Link to open repository. Link to publisher
 - 25. Zecchino, A., Yuan, Z., Sossan, F., Cherkaoui, R., & Paolone, M. (2021). Optimal Provision of Concurrent Primary Frequency and Local Voltage Control from a BESS Considering Variable Capability Curves: Modelling and Experimental Assessment. Electric Power Systems Research, 190. PDF from my website. Link to open repository. Link to publisher
 - 24. Zuo, Y., Yuan, Z., Sossan, F., Zecchino, A., Cherkaoui, R., & Paolone, M. (2021). Performance assessment of grid-forming and grid-following converter-interfaced battery energy storage systems on frequency regulation in low-inertia power grids. Sustainable Energy, Grids and Networks. PDF from my website. Link to open repository. Link to publisher

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- 23. Gupta, R., Sossan, F., Le Boudec, J. Y., & Paolone, M. (2021). Compound Admittance Matrix Estimation of Three-Phase Untransposed Power Distribution Grids Using Synchrophasor Measurements. IEEE Transactions on Instrumentation and Measurement, 70. PDF from my website. Link to open repository. Link to publisher
- 2020
- 22. Gupta, R., Sossan, F., & Paolone, M. (2020). Grid-aware Distributed Model Predictive Control of Heterogeneous Resources in a Distribution Network: Theory and Experimental Validation. IEEE Transactions on Energy Conversion. PDF from my website. Link to open repository. Link to publisher
- 2020
- 21. Nespoli, L., Medici, V., Kristijan, L., & **Sossan, F.** (2020). Hierarchical demand forecasting benchmark for the distribution grid. Electric Power Systems Research, 189, 106755. PDF from my website. Link to open repository. Link to publisher
- 2020
- 20. Stai, E., Sossan, F., Namor, E., Le Boudec, J.Y., & Paolone, M. (2020). A receding horizon control approach for re-dispatching stochastic heterogeneous resources accounting for grid and battery losses. Electric Power Systems Research, 185. Link to publisher
- 2020
- 19. Zuo, Y., Sossan, F., & Paolone, M. (2020). Effect of voltage source converters with electrochemical storage systems on dynamics of reduced-inertia bulk power grids. Electric Power Systems Research, 189. PDF from my website. Link to open repository. Link to publisher
- 2019
- 18. Kalantar-Neyestanaki, M., **Sossan, F.**, Bozorg, M., & Cherkaoui, R. (2019). Characterizing the reserve provision capability area of active distribution networks: a linear robust optimization method. IEEE Transactions on Smart Grid, 11(3): 2464-2475. Link to publisher
- 2019
- 17. Sossan, F., Scolari, E., Gupta, R., & Paolone, M. (2019). Solar irradiance estimations for modeling the variability of photovoltaic generation and assessing violations of grid constraints: A comparison between satellite and pyranometers measurements with load flow simulations. Journal of Renewable and Sustainable Energy of American Institute of Physics, 11(5). PDF from my website. Link to open repository. Link to publisher
- 2018
- 16. Bozorg, M., Sossan, F., Le Boudec, J.Y., & Paolone, M. (2018). Influencing the bulk power system reserve by dispatching power distribution networks using local energy storage. Electric Power Systems Research, 163:270 279. PDF from my website. Link to open repository. Link to publisher
- 2018
- 15. Fabietti, L., Gorecki, T. T., Namor, E., Sossan, F., Paolone, M., & Jones, C. N. (2018). Enhancing the dispatchability of distribution networks through utility-scale batteries and flexible demand. Energy and Buildings, 172:125 – 138. Link to open repository. Link to publisher
- 2018
- 14. Gao, X., Sossan, F., Christakou, K., Paolone, M., & Liserre, M. (2018). Concurrent voltage control and dispatch of active distribution networks by means of smart transformer and storage. IEEE Transactions on Industrial Electronics, 65(8):6657–6666. PDF from my website. Link to open repository. Link to publisher
- 2018
- 13. Mahmood, F., Vanfretti, L., Pignati, M., **Sossan, F.**, & Paolone, M. (2018). Experimental validation of a steady state model synthesis method for a three-phase unbalanced active distribution network feeder. IEEE Access, 6:4042–4053. Link to publisher

2018 12. Namor, E., Sossan, F

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- 12. Namor, E., Sossan, F., Cherkaoui, R., & Paolone, M. (2018). Control of battery storage systems for the simultaneous provision of multiple services. IEEE Transactions on Smart Grid, 10(3):2799–2808. PDF from my website. Link to open repository. Link to publisher
- 2018 11. Scolari, E., Reyes, L., Sossan, F., & Paolone, M. (2018). A comprehensive assessment of the short-term uncertainty of grid-connected pv systems. IEEE Transactions on Sustainable Energy, 9(3):1458–1467. PDF from my website. Link to open repository. Link to publisher
 - 10. Scolari, E., **Sossan, F.**, Haure-Touze, M., & Paolone, M. (2018). Local estimation of the global horizontal irradiance using an all-sky camera. Solar Energy, 173:1225 1235. Link to publisher
 - 9. Sossan, F., Nespoli, L., Medici, V., & Paolone, M. (2018). Unsupervised disaggregation of photovoltaic production from composite power flow measurements of heterogeneous prosumers. IEEE Transactions on Industrial Informatics, 14(9):3904–3913, 2018. PDF from my website. Link to open repository. Link to publisher
 - 8. Stai, E., Reyes-Chamorro, L., Sossan, F., Le Boudec, J.Y., & Paolone, M. (2018). Dispatching stochastic heterogeneous resources accounting for grid and battery losses. IEEE Transactions on Smart Grid, 9(6):6522–6539. PDF from my website. Link to open repository. Link to publisher
 - 7. Scolari, E., **Sossan, F.**, & Paolone, M. (2017). Photovoltaic-model-based solar irradiance estimators: Performance comparison and application to maximum power forecasting. IEEE Transactions on Sustainable Energy, 9(1):35–44. PDF from my website. Link to open repository. Link to publisher
 - 6. Sossan, F. (2017). Equivalent electricity storage capacity of domestic thermostatically controlled loads. Energy, 122. PDF from my website. Link to publisher
 - 5. Scolari, E., Sossan, F., & Paolone, M. (2016). Irradiance prediction intervals for PV stochastic generation in microgrid applications. Solar Energy, 139. PDF from my website. Link to open repository. Link to publisher
 - 4. Sossan, F., Lakshmanan, V., Costanzo, G. T., Marinelli, M., Douglass, P. J., & Bindner, H. (2016). Grey-box modelling of a household refrigeration unit using time series data in application to demand side management. Sustainable Energy, Grids and Networks, 5. PDF from my website. Link to open repository. Link to publisher
 - 3. Sossan, F., Namor, E., Cherkaoui, R., & Paolone, M. (2016). Achieving the dispatchability of distribution feeders through prosumers data driven forecasting and model predictive control of electrochemical storage. IEEE Transactions on Sustainable Energy, 7(4):1762–1777. PDF from my website. Link to open repository. Link to publisher
 - 2. Sossan, F., Bindner, H., Madsen, H., Torregrossa, D., Chamorro, L. R., & Paolone, M. (2014). A model predictive control strategy for the space heating of a smart building including cogeneration of a fuel cell-electrolyzer system. International Journal of Electrical Power & Energy Systems, 62:879 889. PDF from my website. Link to open repository. Link to publisher
 - 1. Marinelli, M., Sossan, F., Costanzo, G. T., & Bindner, H. W. (2014). Testing of a predictive control strategy for balancing renewable sources in a microgrid. IEEE Transactions on Sustainable Energy, 5(4):1426–1433. Link to open repository. Link to publisher

Peer-reviewed publications in conference proceedings

- 38. Grammatikos, P., Ali, A. M., & Sossan, F. (2025). Measurement-Based Line-Impedance 2025 Estimation in the Absence of Phasor Measurement Units. In 2025 IEEE PowerTech. IEEE. Link to open repository
 - 37. Camal, S., van Der Meer, D., Sossan, F., & Kariniotakis, G. (2023). Hierarchical Forecasting for the Management of Distribution Grids. In 27th International Conference on Electricity Distribution (CIRED 2023) (pp. 2233-2237). Link to open repository
 - 36. Mukherjee, B., Kariniotakis, G., & Sossan, F. (2021). Smart Charging, Vehicle-to-Grid, and Reactive Power Support from Electric Vehicles in Distribution Grids: A Performance Comparison. In 2021 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe). IEEE. PDF from my website. Link to open repository
 - 35. Cassano, S., Landry, C., Nicolet, C., & Sossan, F. (2021). Performance Assessment of Linear Models of Hydropower Plants. In 2021 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe). IEEE. PDF from my website. Link to open repository
 - 34. Gupta, R., Sovljanski, V., Sossan, F., & Paolone, M. (2021). Performance Comparison of Alternating Direction Optimization Methods for Linear-OPF based Real-time Predictive Control. In 2021 IEEE Madrid PowerTech. IEEE. PDF from my website. Link to open repository. Link to publisher
 - 33. Cassano, S., Nicolet, C., & Sossan, F. (2020). Reduction of Penstock Fatigue in a Medium-Head Hydropower Plant Providing Primary Frequency Control. In 2020 55th International Universities Power Engineering Conference (UPEC). IEEE. PDF from my website. Link to open repository. Link to publisher
 - 32. Sossan, F., Mukherjee, B., & Hu, Z. (2020). Impact of the Charging Demand of Electric Vehicles on Distribution Grids: a Comparison Between Autonomous and Non-Autonomous Driving. In 15th International Conference on Ecological Vehicles and Renewable Energies (EVER). IEEE. PDF from my website. Link to open repository. Link to publisher
 - 31. Gupta, R., Sossan, F., & Paolone, M. (2019). Performance assessment of linearized OPFbased distributed real-time predictive control. In 2019 IEEE Manchester PowerTech. IEEE. PDF from my website. Link to open repository. Link to publisher
 - 30. Kalantar-Neyestanaki, M., Bozorg, M., Sossan, F., & Cherkaoui, R. (2019). Allocation of active power reserve from active distribution networks using a cost-benefit approach: Application to Swissgrid network. In 2019 IEEE Manchester PowerTech. IEEE. Link to publisher
 - 29. Gupta, R., Sossan, F., Scolari, E., Namor, E., Fabietti, L., Jones, C. N., & Paolone, M. (2018). An ADMM-based coordination and control strategy for PV and storage to dispatch stochastic prosumers: Theory and experimental validation. In 2018 Power Systems Computation Conference (PSCC). PDF from my website. Link to open repository. Link to publisher
 - 28. Kalantar-Neyestanaki, M., Bozorg, M., Sossan, F., & Cherkaoui, R. (2018). Allocation of frequency control reserve from aggregated resources of active distribution systems. In 2018 Power Systems Computation Conference (PSCC). Link to publisher

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- 27. Namor, E., Sossan, F., Scolari, E., Cherkaoui, R., & Paolone, M. (2018). Experimental 2018assessment of the prediction performance of dynamic equivalent circuit models of gridconnected battery energy storage systems. In 2018 IEEE International Conference on Innovative Smart Grid Technologies (ISGT). IEEE. PDF from my website. Link to open repository. Link to publisher
 - 26. Schiapparelli, G.-P., Massucco, S., Namor, E., Sossan, F., Cherkaoui, R., & Paolone, M. (2018). Quantification of primary frequency control provision from battery energy storage systems connected to active distribution networks. 2018 Power Systems Computation Conference (PSCC). Link to open repository. Link to publisher
 - 25. Valenciano López, A., Bozorg, M., Sossan, F., & Paolone, M. (2018). An econometric model of the regulating power price for interconnected power systems: the case of the nord pool market. In 15th International Conference on the European Energy Market (EEM). IEEE. PDF from my website. Link to publisher
 - 24. Zuo, Y., Sossan, F., Bozorg, M., & Paolone, M. (2018). Dispatch and primary frequency control with electrochemical storage: a system-wise verification. In 2018 IEEE International Conference on Innovative Smart Grid Technologies (ISGT). IEEE. PDF from my website. Link to open repository. Link to publisher
 - 23. Fabietti, L., Gorecki, T. T., Namor, E., Sossan, F., Paolone, M., & Jones, C. N. (2017). Dispatching active distribution networks through electrochemical storage systems and demand side management. In 2017 1st IEEE Conference on Control Technology and Applications. IEEE. Link to publisher
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