Fabrizio Sossan – Curriculum Vitae

Professor (Full) of Electrical Power Systems
Haute Ecole Spécialisée de Suisse Occidentale (HES-SO Valais-Wallis)
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Education

08/2014 – 02/2010 Ph.D. in Electrical Engineering, Technical University of Denmark (DTU), Denmark, with the 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

09/2025 – present	HES-SO Valais-Wallis, Full Professor of Power Systems (Switzerland) and Head of Gridlab
11/2022 – 08/2025	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)
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	RISØ, research assistant (Denmark)
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 million.
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	

Compiled on August 26, 2025.

(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.

2018 – 2021 (Main author) Licensing of patent application 62/354,828 to Eaton corporation. Fund: € 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 2. Dr. Biswarup Mukherjee (MINES ParisTech), Optimization methods for scheduling the charge of electric vehicles and planning their charging infrastructure (cosupervisor 30%: G. Kariniotakis). [1]

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.

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

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 (Yverdon-les-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.

2018 **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 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

2021 – present CIGRE working group C6.43, *Aggregation of Battery Energy Storage Systems*

2020 – present CIRED working group 2019-4, *Storage Technologies as an Opportunity for Distribution Systems*

2018 – 2019 Member of the *ASI camera benchmark* campaign, in the context of the IEA PVPS Task 16 on *Solar Resource for High-penetration and Large-scale Applications*.

2012 – present Member of IEEE, and IEEE Power Engineering Society

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.

2019 – present External member of the Ph.D. school board. Department of Power System Engineering and Transportation Systems, University of Genova.

2019 – present Evaluator of research projects for several research funding bodies.

List of publications

(Reverse chronological order and reverse numbering)

Book chapters and Technical Brochures

2021 **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

2025 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

2024 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

2024 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

2024 35. Grammatikos, P., Le Boudec, J. Y., Paolone, M., & **Sossan, F.** (2024). Computation 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

2023 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

2022 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

2022 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

2022 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

2022 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

2022 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

2021 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

2021 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

2021 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

2021 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

2021 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.**, 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

2018 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

2018 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

2018 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

2017 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

2017 6. **Sossan, F.** (2017). Equivalent electricity storage capacity of domestic thermostatically controlled loads. Energy, 122. PDF from my website. Link to publisher

2016 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

2016 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

2016 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

2014 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

2014

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

2025

38. Grammatikos, P., Ali, A. M., & **Sossan, F.** (2025). Measurement-Based Line-Impedance Estimation in the Absence of Phasor Measurement Units. In 2025 IEEE PowerTech. IEEE. Link to open repository

2023

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

2021

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

2021

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

2021

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

2020

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

2020

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

2019

31. Gupta, R., **Sossan, F.**, & Paolone, M. (2019). Performance assessment of linearized OPF-based distributed real-time predictive control. In 2019 IEEE Manchester PowerTech. IEEE. PDF from my website. Link to open repository. Link to publisher

2019

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

2018

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

2018 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

2018 27. Namor, E., **Sossan, F.**, Scolari, E., Cherkaoui, R., & Paolone, M. (2018). Experimental assessment of the prediction performance of dynamic equivalent circuit models of grid-connected 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

2018 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

2018 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

2018 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

2017 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

2017 22. Magnone, L., **Sossan, F.**, Scolari, E., & Paolone, M. (2017). Cloud Motion Identification Algorithms Based on All-Sky Images to Support Solar Irradiance Forecast. In 2017 IEEE 44th Photovoltaic Specialist Conference (PVSC), IEEE. PDF from my website. Link to open repository. Link to publisher

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