

List of publications (full peer-reviewed papers and conference proceedings)

	Title	Author(s)	DOI	Publisher	Year
1	Frequency Divider	F. Milano, Á. Ortega	DOI: 10.1109/TPWRS.2016.2569563	IEEE Transactions on Power Systems	2017
2	Frequency Participation Factors	Á. Ortega, F. Milano	DOI: 10.1109/TPWRS.2018.2812423	IEEE Transactions on Power Systems	Sept. 2018
3	Robust Frequency Divider for Power System Online Monitoring and Control	J. Zhao, L. Mili, F. Milano,	DOI: 10.1109/TPWRS.2017.2785348	IEEE Transactions on Power Systems	July 2018
4	Rotor Speed-free Estimation of the Frequency of the Center of Inertia.	F. Milano	DOI: 10.1109/TPWRS.2017.2750423	IEEE Transactions on Power Systems	2018
5	Noninvasive Online Parametric Identification of Three-Phase AC Power Impedances to Assess the Stability of Grid-Tied Power Electronic Inverters in LV Networks	A. Riccobono, M. Mirz and A. Monti,	DOI: 10.1109/JESTPE.2017.2783042	IEEE Journal of Emerging and Selected Topics in Power Electronics	2018
6	Stochastic Transient Stability Analysis of Transmission Systems with Inclusion of Energy Storage Devices	A.Ortega, F. Milano	DOI: 10.1109/TPWRS.2017.2742400	IEEE Transactions on Power Systems	2018
7	Stochastic Frequency Control of Grid-connected Microgrids	P. Ferraro, E. Crisostomi, R. Shorten, F. Milano	DOI: 10.1109/TPWRS.2018.2821370	IEEE Transactions on Power Systems	2018
8	Modeling, Simulation, and Comparison of Control Techniques for Energy Storage Systems	Á. Ortega and F. Milano	DOI: 10.1109/TPWRS.2016.2602211	IEEE Transactions on Power Systems	2017
9	Analysis of the Impact of Microgrid Penetration on	P. Ferraro, E. Crisostomi, M. Raugi and F. Milano	DOI: 10.1109/TPWRS.2016.2645662	IEEE Transactions on Power Systems	2017

	Power System Dynamics				
10	Comparison of Bus Frequency Estimators for Power System Transient Stability Analysis	Á. Ortega and F. Milano	DOI: 10.1109/POWERCON.2016.7753891	IEEE International Conference on Power System Technology (POWERCON)	2016
11	On the frequency measurement in Wide Area Measurement and Control Systems	M.Sanduleac, A-M. Dumitrescu, L. Toma, C.Stanescu, M. Albu	DOI: 10.1109/ATEE.2017.7905073	IEEE 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE)	2017
12	Energy storage for reaching 100% CO2 free and 100% RES – preliminary case study for Romania	M. Sanduleac, L. Toma, C. Bulac, M. Eremia, N. Golovanov, R. Porumb, M. Albu, S. Gheorghe, C. Chimirel	DOI: 10.1109/CIEM.2017.8120771	IEEE supported 8th International Conference on Energy and Environment (CIEM 2017)	2017
13	An Open Solution for Next-generation Real-time Power System Simulation	S.Vogel, M.Mirz, L.Razik, and A. Monti	DOI: 10.1109/EI2.2017.8245739	IEEE 2017 IEEE Conference on Energy Internet and Energy System Integration (EI2)	2017
14	Decentralized Stochastic Control of Microgrids to Improve System Frequency Stability	F. Milano, P.Ferraro, E. Crisostomi, M.Raugi	DOI: 10.1109/ISGTEurope.2017.8260164	IEEE Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2017 IEEE PES	2017
15	Impact of Frequency Estimation for VSC-based Devices with Primary Frequency Control	Á. Ortega, F. Milano	DOI: 10.1109/ISGTEurope.2017.8260199	IEEE Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2017 IEEE PES	2017
16	On the Impact of Microgrid Energy Management Systems on Power System Dynamics	P. Ferraro, E. Crisostomi, M. Raugi and F. Milano	DOI: 10.1109/PESGM.2017.8273956	IEEE Power Engineering Society General Meeting (PES GM)	2017

17	Comparison of the Dynamic Response of Wind Turbine Primary Frequency Controllers Constraints	J. Cerqueira, F. Bruzzone, C. Castro, S. Massucco, F. Milano	DOI: 10.1109/PESGM.2017.8274657	IEEE Power Engineering Society General Meeting (PES GM)	2017
18	Network Code on Requirements for Generators – a Discussion. Resynchronizing with paradigm shifts	Mihai Sanduleac, Lucian Toma, Gianfranco Chicco, Mihaela Albu	DOI: 10.1109/ISGTEurope.2017.8260326	IEEE Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2017 IEEE PES	2018
19	On the virtual inertia provision by BESS in low inertia power systems	Lucian Toma, Mihai Sanduleac, Stefan Andrei Baltac, Francesco Arrigo, Andrea Mazza, Ettore Bompard, Aysar Musa, Antonello Monti	DOI: 10.1109/ENERGYCON.2018.8398755	IEEE 2018 IEEE International Energy Conference (ENERGYCON)	2018
20	Comparison of different PLL implementations for frequency estimation and control	Alvaro Ortega, Federico Milano	DOI: 10.1109/ICHQP.2018.8378935	IEEE 2018 18th International Conference on Harmonics and Quality of Power (ICHQP)	2018
21	Model-Agnostic Linear Estimation of Generator Rotor Speeds based on Phasor Measurement Units	Federico Milano, Alvaro Ortega, Antonio J. Conejo	DOI: 10.1109/TPWRS.2018.2846737	IEEE Transactions on Power Systems	2018
22	Evaluation of the Impact of the Size of Storage Devices in Grid-Connected Microgrids	F. Milano, Á. Ortega, A. J. Conejo	DOI: 10.1109/EEEIC.2018.8494377	IEEE 2018 IEEE International Conference on Environment and Electrical Engineering and 2018 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)	2018
23	Primary frequency control in a power system with battery	Mihai Sanduleac, et al.	DOI: 10.1109/EEEIC.2018.8494490	IEEE 18th International Conference on Environmental and	2018

	energy storage systems			Electrical Engineering (EEEIC)	
24	Survey Paper: Foundations and Challenges of Low-Inertia Systems	F. Milano, F. Dörfler, G. Hug, D. J. Hill, G. Verbič	DOI: 10.23919/PSCC.2018.8450880	IEEE 20th Power System Computation Conference (PSCC)	2018
25	Frequency-dependent Model for Transient Stability Analysis	F. Milano, Á. Ortega,	DOI: 10.1109/TPWRS.2018.2871639	IEEE Transactions on Power Systems	2018
26	Power system dynamics visualization for early-stage engineering students and non-technical audience	F. Milano	DOI: 10.21125/edulearn.2018.0038	Conference proceedings: EDULEARN 2018 Conference: 10th International Conference on Education and New Learning Technologies	2018
27	Hardware-in-the-Loop Validation of the Frequency Divider Formula	Á. Ortega, A. Musa, A. Monti, F. Milano	DOI: 10.1109/PESGM.2018.8586353	IEEE Conference proceedings: IEEE PES General Meeting	2018
28	Linear and Uniform Swing Dynamics	R. David, A. Musa, F. Ponci and A. Monti	DOI: 10.1109/TSTE.2019.2917831	IEEE Transaction on Sustainable Energy	2019
29	Multi-Agent Based Intelligent Frequency Control in Hybrid AC/DC Networks	Musa, Aysar et al.	DOI: 10.1049/iet-rpg.2018.5120	IET Renewable Power Generation Journal	2018
30	A Global Real-Time Superlab: Enabling High Penetration of Power Electronics in the Electric Grid	A. Monti et al.	DOI: 10.1109/MPEL.2018.2850698	IEEE Power Electronics Magazine	2018

Books:

1. F. Milano and Á. Ortega, “Converter-Interfaced Energy Storage Systems – Context, Modelling, and Dynamic Analysis”, Cambridge University Press (CUP). ISBN: 9781108421065

Status: available from May 2019.

www.cambridge.org/9781108421065

<https://books.google.ie/books?id=fz6PDwAAQBAJ&lpg=PP1&pg=PP1#v=onepage&q&f=false>

2. F. Milano and Á. Ortega, “Frequency Divider – Applications to Power Systems Analysis, State Estimation and Control”, Wiley

Starting date: July 2017; 250 pp. Approx. contracted.

Current length: 100 pages.

Status: not published yet

3. A. Monti, F. Milano, E. Bompard, X. Guillaud (editors), "Converter-based dynamics and control of modern power systems", Elsevier

Starting date: October 2018.

Status: not published yet