

Mohammad Ali Sherkat Masoum 121 Journal Publications (Including 54 IEEE Transactions and IET Proceedings) before Joining UVU in July 2018:

1. N. Kishor, **M.A.S. Masoum**, A. Nayak, A. Srivastava, "Guest Editorial Special Section on Cloud Computing in Smart Grid Operation and Management", *IEEE Transactions on Industrial Informatics*, Vol.14, No.3, pp.1207-1209, 2018.
2. A.S. Musleh, S.M. Muyeen, A. Al-Durra, I. Kamwa, **M.A.S. Masoum**, S. Islam, "Time-Delay Analysis of Wide-Area Voltage Control Considering Smart Grid Contingences in a Real-Time Environment", *IEEE Transactions on Industrial Informatics*, Vol.14, No.3, pp.1242-1252, 2018.
3. M. Saleh, L. Meek, M. Abshar, **M.A.S. Masoum**, "Battery-Less Short-Term Smoothing of Photovoltaic Generation using Sky Camera", *IEEE Transactions on Industrial Informatics*, Vol.14, No.2, pp.403-414, 2018.
4. A. Ashrafiyan, M. Mirsalim, **M.A.S. Masoum**, "An Adaptive Recursive Wavelet Based Algorithm for Real-Time Measurement of Power System Variables during Off-nominal Frequency Conditions", *IEEE Transactions on Industrial Informatics*, Vol.14, No.3, pp.818-828, 2018.
5. O. Ameri Sianaki, **M.A.S. Masoum**, V. Potdar, "A Decision Support Algorithm for Assessing the Engagement of a Demand Response Program in the Industrial Sector of the Smart Grid", Elsevier Computer and Industrial Engineering Journal, Vol. 115, pp. 123-137, Jan. 2018.
6. S.D. Kermany, M. Joorabian, S. Deilami, **M.A.S. Masoum**, "Hybrid Islanding Detection in Microgrid with Multiple Connection Points to Smart Grids using Fuzzy-Neural Network", *IEEE Transactions on Power Systems*, Vol.32, No.4, pp.2640-2651, 2017.
7. A. Ashrafiyan, M. Mirsalim, **M.A.S. Masoum**, "Application of a Recursive Phasor Estimation Method for Adaptive Fault Component Based Differential Protection of Power Transformers", *IEEE Transactions on Industrial Informatics*, Vol.13, No.3, pp.1381-1392, 2017.
8. Ali S. Masoum, N. Hashemnia, A. Abu-siada, **M.A.S. Masoum**, S. Islam, "Online Transformer Internal Fault Detection Based on Instantaneous Voltage and Current Measurements Considering Impact of Harmonics," *IEEE Transactions on Power Delivery*, Vol.32, No.2, pp.587-598, 2017.
9. K. Janfeshan, **M.A.S. Masoum**, "Hierarchical Supervisory Control System for PEVs Participating in Frequency Regulation of Smart Grids", *IEEE Power and Energy Technology Systems Journal*, Vol.4, No.4, pp.84-93, 2017.
10. S.Y. Derakhshandeh, M. E. H. Golshan, M.S. Ghazizadeh, **M.A.S. Masoum**, "Stochastic Scenario-Based Generation Scheduling in Industrial Microgrids", International Transactions on Electrical Energy Systems (wileyonlinelibrary.com), Vol. 27, No. 11, Nov. 2017.
11. X. Su, **M.A.S. Masoum**, P. Wolfs, "Multi-Objective Hierarchical Control of Unbalanced Distribution Networks to Accommodate More Renewable Connections in the Smart Grid Era", *IEEE Transactions on Power Systems*, Vol.31, No.5, pp.3924-3936, 2016.
12. N. Jayasekar, **M.A.S. Masoum**, P. Wolfs, "Optimal Operation of Distributed Energy Storage Systems to Improve Distribution Network Load and Generation Hosting Capability," *IEEE Transactions on Sustainable Energy*, Vol.7, No.1, pp.250-261, 2016.
13. X. Su, **M.A.S. Masoum**, P. Wolfs, "PSO and Improved BSFS Based Sequential Comprehensive Placement and Real-time Multi-objective Control of Delta-connected Switched Capacitors in Unbalanced Radial MV Distribution Networks", *IEEE Transactions on Power Systems*, Vol.31, No.1, pp.612-622, 2016.
14. A. Fereidouni, **M.A.S. Masoum**, K.M. Smedley "Supervisory Nearly Constant Frequency Hysteresis Current Control for Active Power Filter Applications in Stationary Reference Frame", *IEEE Power and Energy Technology Systems Journal*, Vol.3, No.1, pp.1-12, 2016.
15. **M.A.S. Masoum**, S.M.H. Nabavi, "Hybrid Optimal Online-Overnight Charging Coordination of Plug-in Electric Vehicles in Smart Grid", *Elsevier Journal of Power Sources*, Vol.330, pp.7-17, 2016.
16. S. Hajforoosh, **M.A.S. Masoum**, S. Islam "Online Optimal Variable Charge-Rate Coordination of Plug-In Electric Vehicles to Maximize Customer Satisfaction and Improve Grid Performance," Electrical Power System Research (Elsevier), Vol.141, pp.407-420, 2016.
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18. A. Fereidouni, **M.A.S. Masoum**, M. Moghbel, "Performance of LR-Type Solid-State Fault Current Limiter in Improving Power Quality and Transient Stability of Power Network with Wind Turbine Generators", Elsevier International Journal of Electrical Power & Energy Systems, Vol.74, pp.172-186, Jan. 2016.
19. N. Safitri, F. Shahnian, **M.A.S. Masoum**, "Coordination of Single-Phase Rooftop PVs in Unbalanced Three-Phase Residential Feeders for Voltage Profiles Improvement", Australian Journal of Electrical and Electronic Engineering (AJEEE), Vol. 12, No. 2, pp.1-14, 2015.
20. M.Y. Khamaira, A. Abu Siada, S.M. Islam, **M.A.S. Masoum**, "Improved Topology of Doubly Fed Induction Generator based Wind Energy Conversion System", Australian Journal of Electrical & Electronics Engineering, Accepted for publication, In Press, 2015.

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22. N. Safitri, F. Shahnia, **M.A.S. Masoum**, "Monte Carlo-Based Stochastic Analysis Results for Coordination of Single-Phase Rooftop PVs in Low Voltage Residential Networks", *Intelligent Industrial Systems Journal (Springer)*, Vol.1, No.4, pp.359-371, Dec. 2015.
23. S. Hajforoosh, **M.A.S. Masoum**, S. Islam "Real-Time Charging Coordination of Plug-In Electric Vehicles Based on Hybrid Fuzzy Discrete Particle Swarm Optimization," *Electrical Power System Research (Elsevier)*, Vol.128, pp.19-29, Nov. 2015.
24. A. Fereidouni, M.A.S. Masoum, M. Moghbel, "A new adaptive configuration of PID type fuzzy logic controller", *Engineering Letters, ISA Transactions (Elsevier)*, (2014), <http://dx.doi.org/10.1016/j.isatra.2014.11.010>, 2015.
25. M. Moghbel, **M.A.S. Masoum**, A. Fereidouni, "Decentralized Coordinated Charging of Plug-In Electric Vehicles in Unbalanced Residential Networks to Control Distribution Transformer Loading, Voltage Profile and Current Imbalance", *Intelligent Industrial Systems Journal (Springer)*, DOI 10.1007/s40903-015-0008-7, Vol.1, No.2, pp.141-151, Aug. 2015.
26. S.Y. Derakhshandeh, **M.A.S. Masoum**, M. E. H. Golshan, "Unit Commitment in Industrial Microgrids with Plug-In Electric Vehicles and PV Generation", *International Transactions on Electrical Energy Systems*, Published online in Wiley Online Library (wileyonlinelibrary.com). DOI: 10.1002/etep.1913, Vol.25, No.7, pp.1349-1365, July 2015.
27. X. Su, **M.A.S. Masoum**, P. Wolfs, "Optimal PV Inverter Reactive Power Control and Real Power Curtailment to Improve Performance of Unbalanced Four-Wire LV Distribution Networks", *IEEE Transactions on Sustainable Energy*, Paper: Vol.5, No.3, pp.967-977, 2014.
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