

# 2020 Index

## IEEE Transactions on Smart Grid

### Vol. 11

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2020, and items from previous years that were commented upon or corrected in 2020. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

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- Chen, S.**, *see* Zhang, G., *TSG July 2020 2867-2879*
- Chen, S.**, *see* Lv, S., *TSG May 2020 1854-1865*
- Chen, T.**, Guo, J., Chaudhuri, B., and Hui, S.Y., Virtual Inertia From Smart Loads; *TSG Sept. 2020 4311-4320*
- Chen, X.**, Dall'Anese, E., Zhao, C., and Li, N., Aggregate Power Flexibility in Unbalanced Distribution Systems; *TSG Jan. 2020 258-269*
- Chen, X.**, *see* Xu, Y., *TSG March 2020 1593-1603*
- Chen, X.**, Lin, J., Liu, F., and Song, Y., Optimal Control of DERs in ADN Under Spatial and Temporal Correlated Uncertainties; *TSG March 2020 1216-1228*
- Chen, X.**, *see* Liu, X., *TSG July 2020 2816-2831*
- Chen, X.**, *see* Shi, M., *TSG May 2020 2033-2042*
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- Chen, Y.**, *see* Li, M., *TSG March 2020 922-930*
- Chen, Y.**, *see* Shi, M., *TSG May 2020 2033-2042*
- Chen, Y.**, Mei, S., Zhou, F., Low, S.H., Wei, W., and Liu, F., An Energy Sharing Game With Generalized Demand Bidding: Model and Properties; *TSG May 2020 2055-2066*
- Chen, Y.**, *see* Zhou, J., *TSG Sept. 2020 3716-3725*
- Chen, Y.C.**, and Dhople, S.V., Tracing Power With Circuit Theory; *TSG Jan. 2020 138-147*
- Chen, Z.**, *see* Kosen, I., *TSG Jan. 2020 739-748*
- Chen, Z.**, *see* Zhang, G., *TSG Nov. 2020 5260-5272*
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- Cheng, L.**, *see* Zhang, H., *TSG March 2020 1044-1054*
- Cheng, L.**, *see* Zhang, F., *TSG March 2020 1253-1263*
- Cheng, Y.**, Zhang, N., Zhang, B., Kang, C., Xi, W., and Feng, M., Low-Carbon Operation of Multiple Energy Systems Based on Energy-Carbon Integrated Prices; *TSG March 2020 1307-1318*
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- Cherkaoui, R.**, *see* Kalantar-Neyestanaki, M., *TSG May 2020 2464-2475*
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- Costa, A.H.R.**, see Silva, F.L.D., *TSG May 2020 2347-2356*
- Costabeber, A.**, see Burgos-Mellado, C., *TSG March 2020 1604-1619*
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- Cui, B.**, see Hong, T., *TSG May 2020 2357-2366*
- Cui, B.**, Srivastava, A.K., and Banerjee, P., Synchrophasor-Based Condition Monitoring of Instrument Transformers Using Clustering Approach; *TSG May 2020 2688-2698*
- Cui, M.**, Wang, J., and Chen, B., Flexible Machine Learning-Based Cyberattack Detection Using Spatiotemporal Patterns for Distribution Systems; *TSG March 2020 1805-1808*
- Cui, Q.**, and Weng, Y., Enhance High Impedance Fault Detection and Location Accuracy via  $\mu$ -PMUs; *TSG Jan. 2020 797-809*
- Cui, S.**, Wang, Y., Shi, Y., and Xiao, J., A New and Fair Peer-to-Peer Energy Sharing Framework for Energy Buildings; *TSG Sept. 2020 3817-3826*
- Cui, X.**, see Chang, F., *TSG Nov. 2020 5273-5287*
- Cunha, V.C.**, Freitas, W., Trindade, F.C.L., and Santoso, S., Automated Determination of Topology and Line Parameters in Low Voltage Systems Using Smart Meters Measurements; *TSG Nov. 2020 5028-5038*

## D

- D'Incecco, M.**, Squartini, S., and Zhong, M., Transfer Learning for Non-Intrusive Load Monitoring; *TSG March 2020 1419-1429*
- Dai, J.**, see Xiong, S., *TSG Nov. 2020 5239-5248*
- Dai, Q.**, Shi, L., and Ni, Y., A Sponsor Incentive Attack Scheme for Feeder Automation Systems; *TSG March 2020 1440-1452*
- Dai, R.**, Liu, G., Wang, Z., Kan, B., and Yuan, C., A Novel Graph-Based Energy Management System; *TSG May 2020 1845-1853*
- Dai, R.**, see Yuan, C., *TSG May 2020 2440-2451*
- Dall'Anese, E.**, see Chen, X., *TSG Jan. 2020 258-269*
- Dall'Anese, E.**, see Song, J., *TSG Jan. 2020 821-831*
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- Das, A.**, and Ni, Z., A Novel Fitted Rolling Horizon Control Approach for Real-Time Policy Making in Microgrid; *TSG July 2020 3535-3544*
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- Dehkordi, N.M.**, see Shahab, M.A., *TSG Jan. 2020 37-47*
- Dehkordi, N.M.**, and Moussavi, S.Z., Distributed Resilient Adaptive Control of Isolated Microgrids Under Sensor/Actuator Faults; *TSG May 2020 2699-2708*
- Deka, D.**, see Jalali, M., *TSG March 2020 1759-1770*
- Deka, D.**, Talukdar, S., Chertkov, M., and Salapaka, M.V., Graphical Models in Meshed Distribution Grids: Topology Estimation, Change Detection & Limitations; *TSG Sept. 2020 4299-4310*
- Delage, E.**, see Hajebrahimi, A., *TSG Sept. 2020 4278-4289*
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- Deng, X.**, see Wang, W., *TSG July 2020 3593-3605*
- Denis, G.**, see Chaspierre, G., *TSG Nov. 2020 4749-4759*
- Derviskadic, A.**, Razzaghi, R., Walger, Q., and Paolone, M., The White Rabbit Time Synchronization Protocol for Synchrophasor Networks; *TSG Jan. 2020 726-738*
- Develder, C.**, see Sadeghianpourhamami, N., *TSG Jan. 2020 203-214*
- Dhople, S.V.**, see Chen, Y.C., *TSG Jan. 2020 138-147*
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- Ding, G.**, see Liu, Z., *TSG Jan. 2020 233-246*
- Ding, T.**, see Qu, M., *TSG Nov. 2020 5466-5469*
- Ding, T.**, Wang, Z., Jia, W., Chen, B., Chen, C., and Shahidehpour, M., Multi-period Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids; *TSG Nov. 2020 4795-4808*
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- Dobbe, R.**, see Sankur, M.D., *TSG Jan. 2020 884-894*
- Dobbe, R.**, Sondermeijer, O., Fridovich-Keil, D., Arnold, D., Callaway, D., and Tomlin, C., Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning; *TSG March 2020 1296-1306*
- Dolatabadi, S.H.**, see Ghorbanian, M., *TSG Sept. 2020 4227-4235*
- Dong, C.**, Xiao, Q., Wang, M., Morstyn, T., McCulloch, M.D., and Jia, H., Distorted Stability Space and Instability Triggering Mechanism of EV Aggregation Delays in the Secondary Frequency Regulation of Electrical Grid-Electric Vehicle System; *TSG Nov. 2020 5084-5098*
- Dong, J.**, see Kou, X., *TSG Nov. 2020 4871-4882*
- Dong, M.**, and Grumbach, L., A Hybrid Distribution Feeder Long-Term Load Forecasting Method Based on Sequence Prediction; *TSG Jan. 2020 470-482*
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- Donnal, J.**, see Shabshab, S.C., *TSG May 2020 1917-1927*
- Donti, P.L.**, Liu, Y., Schmitt, A.J., Bernstein, A., Yang, R., and Zhang, Y., Matrix Completion for Low-Observability Voltage Estimation; *TSG May 2020 2520-2530*
- Doostizadeh, M.**, see Akrami, A., *TSG Jan. 2020 420-428*
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- Dragicevic, T.**, see Baghaee, H.R., *TSG Jan. 2020 483-500*
- Du, L.**, see Wang, S., *TSG Nov. 2020 4916-4927*

- Du, W.**, Fu, Q., and Wang, H.F., Small-Signal Stability of a DC Network Planned for Electric Vehicle Charging; *TSG Sept. 2020 3748-3762*
- Du, Y.**, and Li, F., Intelligent Multi-Microgrid Energy Management Based on Deep Neural Network and Model-Free Reinforcement Learning; *TSG March 2020 1066-1076*
- Du, Y.**, see Liang, H., *TSG March 2020 1229-1238*
- Du, Y.**, Tu, H., Yu, H., and Lukic, S., Accurate Consensus-Based Distributed Averaging With Variable Time Delay in Support of Distributed Secondary Control Algorithms; *TSG July 2020 2918-2928*
- Du, Y.**, Wu, J., Li, S., Long, C., and Onori, S., Hierarchical Coordination of Two-Time Scale Microgrids With Supply-Demand Imbalance; *TSG Sept. 2020 3726-3736*
- Duan, J.**, and Chow, M., Robust Consensus-Based Distributed Energy Management for Microgrids With Packet Losses Tolerance; *TSG Jan. 2020 281-290*
- Duan, N.**, and Stewart, E.M., Frequency Event Categorization in Power Distribution Systems Using Micro PMU Measurements; *TSG July 2020 3043-3053*
- Duan, Q.**, see Li, P., *TSG Nov. 2020 4860-4870*
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- Engels, J.**, Claessens, B., and Deconinck, G., Grid-Constrained Distributed Optimization for Frequency Control With Low-Voltage Flexibility; *TSG Jan. 2020 612-622*
- Engels, J.**, Claessens, B., and Deconinck, G., Optimal Combination of Frequency Control and Peak Shaving With Battery Storage Systems; *TSG July 2020 3270-3279*
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- Evans, M.P.**, Tindemans, S.H., and Angeli, D., A Graphical Measure of Aggregate Flexibility for Energy-Constrained Distributed Resources; *TSG Jan. 2020 106-117*
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## F

- Faddel, S.**, see Saad, A., *TSG Nov. 2020 5138-5150*
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- Fallah-Mehrjardi, O.**, Yaghmaee, M.H., and Leon-Garcia, A., Charge Scheduling of Electric Vehicles in Smart Parking-Lot Under Future Demands Uncertainty; *TSG Nov. 2020 4949-4959*
- Fan, B.**, Peng, J., Yang, Q., and Liu, W., Distributed Periodic Event-Triggered Algorithm for Current Sharing and Voltage Regulation in DC Microgrids; *TSG Jan. 2020 577-589*
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- Farajollahi, M.**, Shahsavari, A., and Mohsenian-Rad, H., Topology Identification in Distribution Systems Using Line Current Sensors: An MILP Approach; *TSG March 2020 1159-1170*
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- Feng, C.**, Sun, M., and Zhang, J., Reinforced Deterministic and Probabilistic Load Forecasting via Q-Learning Dynamic Model Selection; *TSG March 2020 1377-1386*
- Feng, C.**, Wang, Y., Zheng, K., and Chen, Q., Smart Meter Data-Driven Customizing Price Design for Retailers; *TSG May 2020 2043-2054*
- Feng, C.**, Mehmani, A., and Zhang, J., Deep Learning-Based Real-Time Building Occupancy Detection Using AMI Data; *TSG Sept. 2020 4490-4501*
- Feng, M.**, see Cheng, Y., *TSG March 2020 1307-1318*
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- Foggo, B.**, and Yu, N., Improving Supervised Phase Identification Through the Theory of Information Losses; *TSG May 2020 2337-2346*
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- Fu, Q.**, see Du, W., *TSG Sept. 2020 3748-3762*
- Fu, X.**, Guo, Q., and Sun, H., Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction; *TSG July 2020 2904-2917*
- Fu, Y.**, Zhang, Z., Li, Z., and Mi, Y., Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization; *TSG March 2020 1510-1525*
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## G

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- Gan, W.**, Shahidehpour, M., Yan, M., Guo, J., Yao, W., Paaso, A., Zhang, L., and Wen, J., Coordinated Planning of Transportation and Electric Power Networks With the Proliferation of Electric Vehicles; *TSG Sept. 2020 4005-4016*
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- Ganivada, P.K.**, and Jena, P., Frequency Disturbance Triggered D-Axis Current Injection Scheme for Islanding Detection; *TSG Nov. 2020 4587-4603*
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- Gao, B.**, see Yang, X., *TSG May 2020 2662-2675*
- Gao, C.**, see Song, M., *TSG May 2020 2452-2463*

- Gao, D.W.**, see Li, Y., *TSG Nov. 2020 5339-5356*
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- Gao, Y.**, Wang, W., Shi, J., and Yu, N., Batch-Constrained Reinforcement Learning for Dynamic Distribution Network Reconfiguration; *TSG Nov. 2020 5357-5369*
- Garifi, K.**, Baker, K., Christensen, D., and Touri, B., Convex Relaxation of Grid-Connected Energy Storage System Models With Complementarity Constraints in DC OPF; *TSG Sept. 2020 4070-4079*
- Gatsis, N.**, see Jalali, M., *TSG March 2020 1759-1770*
- Ge, Y.**, Ye, H., and Loparo, K.A., Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption; *TSG Nov. 2020 4883-4890*
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- Ghafari, M.**, see Akaber, P., *TSG May 2020 2676-2687*
- Ghafari, M.**, Au, M., Kassouf, M., Debbabi, M., Assi, C., and Yan, J., Detection and Mitigation of Cyber Attacks on Voltage Stability Monitoring of Smart Grids; *TSG Nov. 2020 5227-5238*
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- Ghavidel, S.**, see Jabbari Ghadi, M., *TSG July 2020 2966-2979*
- Gholami, M.**, Abbaspour, A., Moeini-Aghtaie, M., Fotuhi-Firuzabad, M., and Lehtonen, M., Detecting the Location of Short-Circuit Faults in Active Distribution Network Using PMU-Based State Estimation; *TSG March 2020 1396-1406*
- Ghorani, R.**, Pourahmadi, F., Moeini-Aghtaie, M., Fotuhi-Firuzabad, M., and Shahidehpour, M., Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties; *TSG March 2020 1781-1791*
- Ghorbanian, M.**, Dolatabadi, S.H., Siano, P., Kouveliotis-Lysikatos, I., and Hatzigiorgiou, N.D., Methods for Flexible Management of Blockchain-Based Cryptocurrencies in Electricity Markets and Smart Grids; *TSG Sept. 2020 4227-4235*
- Giannakis, G.B.**, see Yang, Q., *TSG May 2020 2313-2323*
- Giaouris, D.**, see Baharvandi, A., *TSG Jan. 2020 357-367*
- Gilanifar, M.**, Cordova, J., Wang, H., Stifter, M., Ozguven, E.E., Strasser, T.I., and Arghandeh, R., Multi-Task Logistic Low-Ranked Dirty Model for Fault Detection in Power Distribution System; *TSG Jan. 2020 786-796*
- Goehry, B.**, Goude, Y., Massart, P., and Poggi, J., Aggregation of Multi-Scale Experts for Bottom-Up Load Forecasting; *TSG May 2020 1895-1904*
- Gokaraju, R.**, see Ayer, N., *TSG May 2020 1822-1832*
- Golkar, M.A.**, see Jahangir, H., *TSG Nov. 2020 4738-4748*
- Gomez, J.S.**, Saez, D., Simpson-Porco, J.W., and Cardenas, R., Distributed Predictive Control for Frequency and Voltage Regulation in Microgrids; *TSG March 2020 1319-1329*
- Gomez-Herrera, J.A.**, see Besancon, M., *TSG Nov. 2020 5462-5465*
- Gong, L.**, Fu, Y., Shahidehpour, M., and Li, Z., A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms; *TSG July 2020 3483-3495*
- Gong, Z.**, see Wang, C., *TSG Sept. 2020 4531-4543*
- Gonzalez-Longatt, F.M.**, see Sanchez Gorostiza, F., *TSG Nov. 2020 5039-5050*
- Gooi, H.B.**, see Paudel, A., *TSG Nov. 2020 4727-4737*
- Gordon, R.L.**, see Jazaeri, J., *TSG Jan. 2020 15-25*
- Goude, Y.**, see Goehry, B., *TSG May 2020 1895-1904*
- Gougheri, S.S.**, see Jahangir, H., *TSG Nov. 2020 4738-4748*
- Govindarasu, M.**, see Wang, P., *TSG July 2020 3447-3456*
- Grumbach, L.**, see Dong, M., *TSG Jan. 2020 470-482*
- Gu, W.**, see Shi, X., *TSG July 2020 3545-3557*
- Gu, W.**, see Lou, G., *TSG Sept. 2020 3702-3715*
- Gu, W.**, see Lu, S., *TSG Nov. 2020 4818-4832*
- Gu, Y.**, see Guo, H., *TSG July 2020 3509-3521*
- Guan, X.**, see Tian, J., *TSG Jan. 2020 291-300*
- Guddanti, K.P.**, Matavalam, A.R.R., and Weng, Y., PMU-Based Distributed Non-Iterative Algorithm for Real-Time Voltage Stability Monitoring; *TSG Nov. 2020 5203-5215*
- Guerrero, J.M.**, see Shahab, M.A., *TSG Jan. 2020 37-47*
- Guerrero, J.M.**, see He, L., *TSG March 2020 1737-1747*
- Guerrero, J.M.**, see Wu, X., *TSG March 2020 942-957*
- Guerrero, J.M.**, see Peng, Y., *TSG March 2020 1330-1342*
- Guerrero, J.M.**, see Shan, Y., *TSG March 2020 1018-1029*
- Guerrero, J.M.**, see Ganjian-Aboukheili, M., *TSG May 2020 2106-2114*
- Guo, F.**, see Xing, L., *TSG May 2020 2487-2497*
- Guo, F.**, see Yang, J., *TSG May 2020 2162-2171*
- Guo, H.**, Chen, Q., Gu, Y., Shahidehpour, M., Xia, Q., and Kang, C., A Data-Driven Pattern Extraction Method for Analyzing Bidding Behaviors in Power Markets; *TSG July 2020 3509-3521*
- Guo, J.**, see Gan, W., *TSG Sept. 2020 4005-4016*
- Guo, J.**, see Chen, T., *TSG Sept. 2020 4311-4320*
- Guo, J.**, Badesa, L., Teng, F., Chaudhuri, B., Ron Hui, S.Y., and Strbac, G., Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System; *TSG Nov. 2020 4938-4948*
- Guo, L.**, see Chai, Y., *TSG March 2020 968-980*
- Guo, Q.**, see Shi, X., *TSG July 2020 3545-3557*
- Guo, Q.**, see Fu, X., *TSG July 2020 2904-2917*
- Guo, Q.**, see Zhao, Y., *TSG Sept. 2020 4236-4248*
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- Guo, Y.**, see Lin, C., *TSG Jan. 2020 810-820*
- Guo, Y.**, see Zhao, Y., *TSG Sept. 2020 4236-4248*
- Guo, Y.**, see Zhou, X., *TSG Nov. 2020 5325-5338*
- Guo, Z.**, Chen, S., Liu, H., Yang, Q., and Yang, Z., A Fast Algorithm for Optimal Power Scheduling of Large-Scale Appliances With Temporally Spatially Coupled Constraints; *TSG March 2020 1136-1146*
- Guo, Z.**, Wei, W., Chen, L., Wang, Z., and Mei, S., Operation of Distribution Network Considering Compressed Air Energy Storage Unit and Its Reactive Power Support Capability; *TSG July 2020 2954-2965*
- Gupta, V.**, see Aguiar, N., *TSG March 2020 1691-1701*

## H

- Haes Alhelou, H.**, Hamedani Golshan, M.E., and Hatzigiorgiou, N.D., Deterministic Dynamic State Estimation-Based Optimal LFC for Interconnected Power Systems Using Unknown Input Observer; *TSG March 2020 1582-1592*
- Haghighat, H.**, Karimianfard, H., and Zeng, B., Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation; *TSG Sept. 2020 4044-4055*
- Hahn, A.**, see Venkataramanan, V., *TSG March 2020 1055-1065*
- Hahn, A.**, see Zhang, Y., *TSG March 2020 931-941*
- Hahn, A.**, see Tushar, ., *TSG Nov. 2020 5114-5123*
- Haider, R.**, Baros, S., Wasa, Y., Romvary, J., Uchida, K., and Annaswamy, A.M., Toward a Retail Market for Distribution Grids; *TSG Nov. 2020 4891-4905*
- Hajebrahimi, A.**, Kamwa, I., Delage, E., and Abdelaziz, M.M.A., Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning; *TSG Sept. 2020 4278-4289*
- Hajibandeh, N.**, see Badakhshan, S., *TSG Jan. 2020 118-128*
- Hajizadeh, A.**, see Jahangir, H., *TSG Nov. 2020 4738-4748*
- Hamacher, T.**, see Zhang, K., *TSG July 2020 2929-2941*
- Hamedani Golshan, M.E.**, see Haes Alhelou, H., *TSG March 2020 1582-1592*
- Hamzeh, M.**, see Razi, R., *TSG Sept. 2020 3795-3804*
- Han, H.**, see Liu, Z., *TSG July 2020 2771-2781*
- Han, M.**, see Zhu, W., *TSG Sept. 2020 4358-4365*
- Han, S.**, see Kodaira, D., *TSG May 2020 2208-2217*
- Han, S.**, Lee, D., and Park, J., Optimal Bidding and Operation Strategies for EV Aggregators by Regrouping Aggregated EV Batteries; *TSG Nov. 2020 4928-4937*
- Han, Z.**, see Liu, Y., *TSG Nov. 2020 5151-5160*
- Han, Z.**, see Liu, Y., *TSG Nov. 2020 5216-5226*
- Hanasusanto, G.A.**, see Zhang, N., *TSG March 2020 1771-1780*
- Hanif, S.**, see Zhang, K., *TSG July 2020 2929-2941*
- Hansen, T.M.**, see Paudyal, P., *TSG Jan. 2020 710-719*
- Hao, W.**, see Huang, Q., *TSG March 2020 1171-1182*
- Harding, J.**, see Liu, M.Z., *TSG Sept. 2020 4502-4512*

- Harrold, D.**, *see* Cao, J., *TSG Sept. 2020 4513-4521*
- Hasanpor Divshali, P.**, and Evens, C., Optimum Operation of Battery Storage System in Frequency Containment Reserves Markets; *TSG Nov. 2020 4906-4915*
- Hashemian, S.N.**, Latify, M.A., and Yousefi, G.R., PEV Fast-Charging Station Sizing and Placement in Coupled Transportation-Distribution Networks Considering Power Line Conditioning Capability; *TSG Nov. 2020 4773-4783*
- Hashmy, Y.**, Yu, Z., Shi, D., and Weng, Y., Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning; *TSG Nov. 2020 5072-5083*
- Hatziaargyriou, N.**, *see* Yang, P., *TSG May 2020 2615-2626*
- Hatziaargyriou, N.D.**, *see* Haes Alhelou, H., *TSG March 2020 1582-1592*
- Hatziaargyriou, N.D.**, *see* Ghorbanian, M., *TSG Sept. 2020 4227-4235*
- Hatziaargyriou, N.D.**, *see* Shen, F., *TSG Nov. 2020 4574-4586*
- Hay, R.W.**, *see* Wilson, A.J., *TSG Sept. 2020 4380-4389*
- He, B.**, *see* Wang, H., *TSG May 2020 1928-1941*
- He, C.**, *see* Nan, L., *TSG July 2020 3558-3569*
- He, C.**, *see* Su, X., *TSG May 2020 1833-1844*
- He, C.**, *see* Nan, L., *TSG Sept. 2020 4569*
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- He, H.**, *see* Li, H., *TSG May 2020 2427-2439*
- He, H.**, *see* Shi, M., *TSG May 2020 2033-2042*
- He, H.**, *see* Wei, F., *TSG May 2020 2476-2486*
- He, H.**, *see* Wei, F., *TSG May 2020 2151-2161*
- He, H.**, *see* Wei, F., *TSG May 2020 2722-2733*
- He, H.**, *see* Li, H., *TSG Sept. 2020 4144-4154*
- He, H.**, *see* Zhou, J., *TSG Sept. 2020 3716-3725*
- He, J.**, *see* Wu, X., *TSG March 2020 942-957*
- He, K.**, *see* Jiang, K., *TSG May 2020 2734-2736*
- He, L.**, Li, Y., Guerrero, J.M., and Cao, Y., A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations; *TSG March 2020 1737-1747*
- He, R.**, Xie, H., Deng, J., Feng, T., Lai, L.L., and Shahidehpour, M., Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems; *TSG Sept. 2020 3763-3773*
- He, X.**, *see* Shi, X., *TSG March 2020 995-1006*
- He, Y.**, *see* Xiang, S., *TSG July 2020 3246-3256*
- He, Y.**, *see* Tong, J., *TSG July 2020 3359-3371*
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- Hesamzadeh, M.R.**, *see* Sun, W., *TSG March 2020 1077-1090*
- Higgins, C.**, *see* Mokhtar, M., *TSG March 2020 1657-1666*
- Hill, D.J.**, *see* Liang, L., *TSG Jan. 2020 184-193*
- Ho, C.H.**, Wu, H.C., Chan, S.C., and Hou, Y., A Robust Statistical Approach to Distributed Power System State Estimation With Bad Data; *TSG Jan. 2020 517-527*
- Hodge, B.**, *see* Mateo, C., *TSG Nov. 2020 5301-5313*
- Hojabri, H.**, *see* Hosseinipour, A., *TSG Sept. 2020 3737-3747*
- Home-Ortiz, J.M.**, Pourakbari-Kasmaei, M., Lehtonen, M., and Mantovani, J.R.S., A Mixed Integer Conic Model for Distribution Expansion Planning: Mathuristic Approach; *TSG Sept. 2020 3932-3943*
- Hong, H.**, *see* Lou, G., *TSG Sept. 2020 3702-3715*
- Hong, J.**, *see* Xiang, Y., *TSG March 2020 1809-1811*
- Hong, M.**, *see* Sun, J., *TSG Nov. 2020 4662-4675*
- Hong, Q.**, Karimi, M., Sun, M., Norris, S., Bagleybter, O., Wilson, D., Abdhadi, I.F., Terzija, V., Marshall, B., and Booth, C.D., Design and Validation of a Wide Area Monitoring and Control System for Fast Frequency Response; *TSG July 2020 3394-3404*
- Hong, T.**, Zhao, D., Zhang, Y., Cui, B., and Tian, Y., Optimal Voltage Reference for Droop-Based DERs in Distribution Systems; *TSG May 2020 2357-2366*
- Hossein, M.M.**, Umunnakwe, A., Parvania, M., and Tasdizen, T., Intelligent Damage Classification and Estimation in Power Distribution Poles Using Unmanned Aerial Vehicles and Convolutional Neural Networks; *TSG July 2020 3325-3333*
- Hosseinian, S.H.**, *see* Salimi, M., *TSG Sept. 2020 4390-4402*
- Hosseinipour, A.**, and Hojabri, H., Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs; *TSG Sept. 2020 3737-3747*
- Hou, K.**, *see* Liu, X., *TSG Nov. 2020 5431-5441*
- Hou, Y.**, *see* Liang, L., *TSG Jan. 2020 184-193*
- Hou, Y.**, *see* Ho, C.H., *TSG Jan. 2020 517-527*
- Hou, Y.**, *see* Wang, C., *TSG July 2020 3620-3631*
- Hou, Y.**, *see* Wang, C., *TSG May 2020 2498-2510*
- Hou, Y.**, *see* Lei, S., *TSG Sept. 2020 3944-3956*
- Hou, Y.**, *see* Sun, L., *TSG Sept. 2020 3885-3895*
- Hou, Y.**, *see* Liu, R., *TSG Nov. 2020 5383-5395*
- Hu, B.**, *see* Yan, J., *TSG May 2020 2257-2270*
- Hu, B.**, *see* Li, Y., *TSG May 2020 2627-2637*
- Hu, F.**, *see* Liu, C., *TSG Jan. 2020 301-311*
- Hu, J.**, *see* Shan, Y., *TSG March 2020 1018-1029*
- Hu, J.**, *see* Sun, L., *TSG Sept. 2020 3885-3895*
- Hu, M.**, *see* Li, P., *TSG May 2020 2245-2256*
- Hu, W.**, *see* Zheng, A., *TSG May 2020 2407-2416*
- Hu, W.**, *see* Zhang, G., *TSG Nov. 2020 5260-5272*
- Hu, X.**, Liu, Z., Wen, G., Yu, X., and Liu, C., Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs; *TSG Sept. 2020 4017-4031*
- Hu, X.**, and Nutaro, J., A Priority-Based Control Strategy and Performance Bound for Aggregated HVAC-Based Load Shaping; *TSG Sept. 2020 4133-4143*
- Hu, Z.**, *see* Zhang, H., *TSG July 2020 3291-3301*
- Huang, A.Q.**, *see* Chang, F., *TSG Nov. 2020 5273-5287*
- Huang, C.**, *see* Kosen, I., *TSG Jan. 2020 739-748*
- Huang, C.**, Wang, C., Xie, N., and Wang, Y., Robust Coordination Expansion Planning for Active Distribution Network in Deregulated Retail Power Market; *TSG March 2020 1476-1488*
- Huang, J.**, *see* Kong, W., *TSG Jan. 2020 148-160*
- Huang, J.**, *see* Zhao, D., *TSG March 2020 1112-1123*
- Huang, J.**, *see* Zhou, X., *TSG Nov. 2020 5325-5338*
- Huang, L.**, *see* Wang, Y., *TSG Jan. 2020 590-601*
- Huang, L.**, Xin, H., Li, Z., Ju, P., Yuan, H., Lan, Z., and Wang, Z., Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control; *TSG Jan. 2020 501-516*
- Huang, L.**, Xin, H., and Dorfler, F.,  $H_2$ -Control of Grid-Connected Converters: Design, Objectives and Decentralized Stability Certificates; *TSG Sept. 2020 3805-3816*
- Huang, Q.**, *see* Zhang, Q., *TSG March 2020 1193-1204*
- Huang, Q.**, Huang, R., Hao, W., Tan, J., Fan, R., and Huang, Z., Adaptive Power System Emergency Control Using Deep Reinforcement Learning; *TSG March 2020 1171-1182*
- Huang, Q.**, *see* Zheng, A., *TSG May 2020 2407-2416*
- Huang, Q.**, *see* Zhang, G., *TSG Nov. 2020 5260-5272*
- Huang, R.**, *see* Huang, Q., *TSG March 2020 1171-1182*
- Huang, T.**, *see* Liu, Y., *TSG Nov. 2020 5216-5226*
- Huang, Y.**, *see* Liao, J., *TSG March 2020 1667-1678*
- Huang, Y.**, *see* Xiang, Y., *TSG March 2020 1809-1811*
- Huang, Y.**, *see* Liu, S., *TSG July 2020 3606-3619*
- Huang, Z.**, *see* Huang, Q., *TSG March 2020 1171-1182*
- Huang, Z.**, *see* Wang, Y., *TSG March 2020 1286-1295*
- Hug, G.**, *see* Karagiannopoulos, S., *TSG Jan. 2020 623-633*
- Hui, S.Y.**, *see* Chen, T., *TSG Sept. 2020 4311-4320*
- Hussain, A.**, *see* Bui, Y.-H., *TSG Jan. 2020 457-469*

## I

- Idehen, I.**, Jang, W., and Overbye, T.J., Large-Scale Generation and Validation of Synthetic PMU Data; *TSG Sept. 2020 4290-4298*
- Ikpehai, A.**, *see* Anoh, K., *TSG March 2020 1264-1275*
- Ilic, M.**, *see* Junlakarn, S., *TSG Sept. 2020 3970-3981*
- Iman-Eini, H.**, *see* Razi, R., *TSG Sept. 2020 3795-3804*

- Iranpour, M.**, Hejazi, M.A., and Shahidehpour, M., A Unified Approach for Reliability Assessment of Critical Infrastructures Using Graph Theory and Entropy; *TSG Nov. 2020 5184-5192*
- Ismail, M.**, Shaaban, M.F., Naidu, M., and Serpedin, E., Deep Learning Detection of Electricity Theft Cyber-Attacks in Renewable Distributed Generation; *TSG July 2020 3428-3437*
- Ismail, M.**, see Atat, R., *TSG May 2020 2080-2091*

## J

- Jabbari Ghadi, M.**, Azizivahed, A., Rajabi, A., Ghavidel, S., Li, L., Zhang, J., Shafie-Khah, M., and Catalao, J.P.S., Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems; *TSG July 2020 2966-2979*
- Jabr, R.A.**, see Nazir, F.U., *TSG Nov. 2020 5314-5324*
- Jahangir, H.**, Gougheri, S.S., Vatandoust, B., Golkar, M.A., Ahmadian, A., and Hajizadeh, A., Plug-in Electric Vehicle Behavior Modeling in Energy Market: A Novel Deep Learning-Based Approach With Clustering Technique; *TSG Nov. 2020 4738-4748*
- Jalali, M.**, Kekatos, V., Gatsis, N., and Deka, D., Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines; *TSG March 2020 1759-1770*
- Jamei, M.**, see Roberts, C., *TSG Jan. 2020 749-761*
- Jang, W.**, see Idehen, I., *TSG Sept. 2020 4290-4298*
- Jazaeri, J.**, Alpcan, T., and Gordon, R.L., A Joint Electrical and Thermodynamic Approach to HVAC Load Control; *TSG Jan. 2020 15-25*
- Jena, P.**, see Ganivada, P.K., *TSG Nov. 2020 4587-4603*
- Jereminov, M.**, Bromberg, D.M., Pandey, A., Wagner, M.R., and Pileggi, L., Evaluating Feasibility Within Power Flow; *TSG July 2020 3522-3534*
- Ji, Y.**, Buechler, E., and Rajagopal, R., Data-Driven Load Modeling and Forecasting of Residential Appliances; *TSG May 2020 2652-2661*
- Jia, H.**, see Mu, C., *TSG March 2020 1748-1758*
- Jia, H.**, see Wang, M., *TSG March 2020 981-994*
- Jia, H.**, see Wang, M., *TSG Sept. 2020 4176-4189*
- Jia, H.**, see Liu, X., *TSG Nov. 2020 5431-5441*
- Jia, H.**, see Dong, C., *TSG Nov. 2020 5084-5098*
- Jia, K.**, Yang, B., Dong, X., Feng, T., Bi, T., and Thomas, D.W.P., Sparse Voltage Measurement-Based Fault Location Using Intelligent Electronic Devices; *TSG Jan. 2020 48-60*
- Jia, K.**, Feng, T., Zhao, Q., Wang, C., and Bi, T., High Frequency Transient Sparse Measurement-Based Fault Location for Complex DC Distribution Networks; *TSG Jan. 2020 312-322*
- Jia, K.**, Xuan, Z., Feng, T., Wang, C., Bi, T., and Thomas, D.W.P., Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems; *TSG Jan. 2020 323-333*
- Jia, W.**, see Ding, T., *TSG Nov. 2020 4795-4808*
- Jia, Y.**, see Xu, X., *TSG July 2020 3201-3211*
- Jia, Y.**, see Chai, S., *TSG Nov. 2020 5370-5382*
- Jia, Y.**, Lyu, X., Xie, P., Xu, Z., and Chen, M., A Novel Retrospect-Inspired Regime for Microgrid Real-Time Energy Scheduling With Heterogeneous Sources; *TSG Nov. 2020 4614-4625*
- Jiang, A.**, Wei, H., Deng, J., and Qin, H., Cloud-Edge Cooperative Model and Closed-Loop Control Strategy for the Price Response of Large-Scale Air Conditioners Considering Data Packet Dropouts; *TSG Sept. 2020 4201-4211*
- Jiang, K.**, see Wang, H., *TSG May 2020 1928-1941*
- Jiang, K.**, Su, H., Lin, H., He, K., Zeng, H., and Che, Y., A Practical Secondary Frequency Control Strategy for Virtual Synchronous Generator; *TSG May 2020 2734-2736*
- Jiang, T.**, see Wang, M., *TSG March 2020 981-994*
- Jiang, X.**, see Xiong, S., *TSG Nov. 2020 5239-5248*
- Jiang, Y.**, Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation; *TSG Jan. 2020 129-137*
- Jiang, Y.**, Wan, C., Chen, C., Shahidehpour, M., and Song, Y., A Hybrid Stochastic-Interval Operation Strategy for Multi-Energy Microgrids; *TSG Jan. 2020 440-456*
- Jin, M.**, Molybog, I., Mohammadi-Ghazi, R., and Lavaei, J., Scalable and Robust State Estimation From Abundant But Untrusted Data; *TSG May 2020 1880-1894*
- Jin, X.**, see Liu, X., *TSG Nov. 2020 5431-5441*
- Jing, S.**, see Zheng, A., *TSG May 2020 2407-2416*
- Jo, J.**, and Park, J., Demand-Side Management With Shared Energy Storage System in Smart Grid; *TSG Sept. 2020 4466-4476*
- Johnson, R.C.**, see Wilson, A.J., *TSG Sept. 2020 4380-4389*
- Jones, C.**, see Lymperopoulos, I., *TSG Jan. 2020 665-672*
- Jooshaki, M.**, Abbaspour, A., Fotuhi-Firuzabad, M., Munoz-Delgado, G., Contreras, J., Lehtonen, M., and Arroyo, J.M., Linear Formulations for Topology-Variable-Based Distribution System Reliability Assessment Considering Switching Interruptions; *TSG Sept. 2020 4032-4043*
- Ju, P.**, see Huang, L., *TSG Jan. 2020 501-516*
- Ju, P.**, see Wang, C., *TSG July 2020 3620-3631*
- Ju, P.**, see Wang, C., *TSG May 2020 2498-2510*
- Jung, W.**, see Kodaira, D., *TSG May 2020 2208-2217*
- Junlakarn, S.**, and Ilic, M., Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making; *TSG Sept. 2020 3970-3981*

## K

- Kababji, S.E.**, and Srikantha, P., A Data-Driven Approach for Generating Synthetic Load Patterns and Usage Habits; *TSG Nov. 2020 4984-4995*
- Kalantar-Neyestanaki, M.**, Sossan, F., Bozorg, M., and Cherkaoui, R., Characterizing the Reserve Provision Capability Area of Active Distribution Networks: A Linear Robust Optimization Method; *TSG May 2020 2464-2475*
- Kalathil, D.**, see Muthirayan, D., *TSG Jan. 2020 61-73*
- Kalsi, K.**, see Wang, P., *TSG July 2020 3221-3230*
- Kamgarpour, M.**, see Karaca, O., *TSG May 2020 2604-2614*
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- Kang, C.**, see Ma, Z., *TSG March 2020 1500-1509*
- Kang, C.**, see Guo, H., *TSG July 2020 3509-3521*
- Kang, C.**, see Liu, Y., *TSG May 2020 2576-2587*
- Kang, J.**, see Nguyen, L.N., *TSG May 2020 2293-2302*
- Kantarci, B.**, see Elsayed, M., *TSG March 2020 1091-1099*
- Kar, S.**, see Samudrala, A.N., *TSG May 2020 1996-2013*
- Kar, S.**, see Samudrala, A.N., *TSG Nov. 2020 5124-5137*
- Kara, E.C.**, see Ziras, C., *TSG Jan. 2020 334-345*
- Karaca, O.**, and Kamgarpour, M., Core-Selecting Mechanisms in Electricity Markets; *TSG May 2020 2604-2614*
- Karagiannopoulos, S.**, Gallmann, J., Vaya, M.G., Aristidou, P., and Hug, G., Active Distribution Grids Offering Ancillary Services in Islanded and Grid-Connected Mode; *TSG Jan. 2020 623-633*
- Kargarian, A.**, see Safdarian, F., *TSG Sept. 2020 4544-4554*
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- Karrari, S.**, see Afshari, A., *TSG May 2020 1866-1879*
- Karri, R.**, see Acharya, S., *TSG Nov. 2020 5099-5113*
- Kaslimi, M.**, Doulamis, N., Voulodimos, A., Protopapadakis, E., and Doulamis, A., Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models; *TSG July 2020 3054-3067*
- Kassouf, M.**, see Moussa, B., *TSG May 2020 2541-2551*
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- Kekatos, V.**, see Taheri, S., *TSG Jan. 2020 634-643*
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- Khadkikar, V.**, see Alkaabi, S.S., *TSG March 2020 1813-1815*
- Khalid, M.**, Discussion on "Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems" *TSG March 2020 1812*
- Khargonekar, P.P.**, see Aguiar, N., *TSG March 2020 1691-1701*
- Khargonekar, P.P.**, see Muthirayan, D., *TSG May 2020 2195-2207*
- Khatami, R.**, Parvania, M., and Narayan, A., Flexibility Reserve in Power Systems: Definition and Stochastic Multi-Fidelity Optimization; *TSG Jan. 2020 644-654*
- Khatami, R.**, see Oikonomou, K., *TSG Jan. 2020 655-664*
- Khazaei, J.**, see Asrari, A., *TSG March 2020 1147-1158*
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- Khodayar, M.E.**, see Zhang, Y., *TSG Sept. 2020 3982-3992*
- Khodayar, M.E.**, see Li, J., *TSG Nov. 2020 4760-4772*
- Kiaei, I.**, and Lotfifard, S., Fault Section Identification in Smart Distribution Systems Using Multi-Source Data Based on Fuzzy Petri Nets; *TSG Jan. 2020 74-83*
- Kiliccote, S.**, see Ziras, C., *TSG Jan. 2020 334-345*
- Kim, H.-M.**, see Bui, Y.-H., *TSG Jan. 2020 457-469*
- Kim, Y.**, A Supervised-Learning-Based Strategy for Optimal Demand Response of an HVAC System in a Multi-Zone Office Building; *TSG Sept. 2020 4212-4226*
- Kling, A.**, see Wang, J., *TSG Nov. 2020 5396-5406*
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- Kodaira, D.**, Jung, W., and Han, S., Optimal Energy Storage System Operation for Peak Reduction in a Distribution Network Using a Prediction Interval; *TSG May 2020 2208-2217*
- Konakalla, S.A.R.**, Valibeygi, A., and de Callafon, R.A., Microgrid Dynamic Modeling and Islanding Control With Synchrophasor Data; *TSG Jan. 2020 905-915*
- Kong, P.**, Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid; *TSG May 2020 2417-2426*
- Kong, W.**, see Luo, F., *TSG Jan. 2020 4-14*
- Kong, W.**, Dong, Z.Y., Wang, B., Zhao, J., and Huang, J., A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing; *TSG Jan. 2020 148-160*
- Konstantinopoulos, S.**, De Mijolla, G.M., Chow, J.H., Lev-Ari, H., and Wang, M., Synchrophasor Missing Data Recovery via Data-Driven Filtering; *TSG Sept. 2020 4321-4330*
- Korkali, M.**, see Xu, Y., *TSG March 2020 1593-1603*
- Kosen, I.**, Huang, C., Chen, Z., Zhang, X., Min, L., Zhou, D., Zhu, L., and Liu, Y., UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability; *TSG Jan. 2020 739-748*
- Kou, X.**, Li, F., Dong, J., Starke, M., Munk, J., Xue, Y., Olama, M., and Zandi, H., A Scalable and Distributed Algorithm for Managing Residential Demand Response Programs Using Alternating Direction Method of Multipliers (ADMM); *TSG Nov. 2020 4871-4882*
- Kouveliotis-Lysikatos, I.**, see Ghorbanian, M., *TSG Sept. 2020 4227-4235*
- Krishnan, V.**, Bugbee, B., Elgindy, T., Mateo, C., Duenas, P., Postigo, F., Lacroix, J., Roman, T.G.S., and Palmintier, B., Validation of Synthetic U.S. Electric Power Distribution System Data Sets; *TSG Sept. 2020 4477-4489*
- Krishnan, V.**, see Mateo, C., *TSG Nov. 2020 5301-5313*
- Krishnan, V.V.G.**, see Zhang, Y., *TSG March 2020 931-941*
- Kumar, S.**, see Kumar, V., *TSG Sept. 2020 3837-3849*
- Kumar, V.**, Mohanty, S.R., and Kumar, S., Event Trigger Super Twisting Sliding Mode Control for DC Micro Grid With Matched/Unmatched Disturbance Observer; *TSG Sept. 2020 3837-3849*
- Kunwar, A.**, Shahnia, F., and Bansal, R.C., Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators; *TSG May 2020 1942-1955*
- Kushner, D.**, see Nasiri, H., *TSG Nov. 2020 4809-4817*
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- Labeau, F.**, see Shateri, M., *TSG Nov. 2020 5174-5183*
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- Lagoa, C.M.**, see Mahapatra, K., *TSG March 2020 958-967*
- Lai, C.S.**, see Xu, X., *TSG July 2020 3201-3211*
- Lai, J.**, Lu, X., Yu, X., and Monti, A., Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication; *TSG July 2020 2746-2759*
- Lai, J.**, see Lu, X., *TSG Nov. 2020 4676-4687*
- Lai, L.L.**, see Wang, Y., *TSG Jan. 2020 590-601*
- Lai, L.L.**, see Wang, Y., *TSG March 2020 1286-1295*
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- Lampe, L.**, see Sun, Y., *TSG Jan. 2020 215-228*
- Lan, Z.**, see Huang, L., *TSG Jan. 2020 501-516*
- Langevin, A.**, Gagnon, G., and Cheriet, M., Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors; *TSG Nov. 2020 5019-5027*
- Langstaff, T.**, see Liu, M.Z., *TSG Sept. 2020 4502-4512*
- Laparra, G.**, Li, M., Zhu, G., and Savaria, Y., Desynchronized Model Predictive Control for Large Populations of Fans in Server Racks of Datacenters; *TSG Jan. 2020 411-419*
- Latify, M.A.**, see Hashemian, S.N., *TSG Nov. 2020 4773-4783*
- Lau, P.**, Wei, W., Wang, L., Liu, Z., and Ten, C., A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation; *TSG Sept. 2020 4403-4414*
- Lavaei, J.**, see Jin, M., *TSG May 2020 1880-1894*
- Ledva, G.S.**, and Mathieu, J.L., Separating Feeder Demand Into Components Using Substation, Feeder, and Smart Meter Measurements; *TSG July 2020 3280-3290*
- Ledwich, G.**, see Xing, L., *TSG May 2020 2487-2497*
- Ledwich, G.**, see Arefi, A., *TSG Sept. 2020 3896-3909*
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- Lefebvre, S.**, see Alzaareer, K., *TSG Sept. 2020 3921-3931*
- Legry, M.**, Dieulot, J., Colas, F., Saudemont, C., and Ducarme, O., Non-Linear Primary Control Mapping for Droop-Like Behavior of Microgrid Systems; *TSG Nov. 2020 4604-4613*
- Lehtonen, M.**, see Gholami, M., *TSG March 2020 1396-1406*
- Lehtonen, M.**, see Jooshaki, M., *TSG Sept. 2020 4032-4043*
- Lehtonen, M.**, see Home-Ortiz, J.M., *TSG Sept. 2020 3932-3943*
- Lei, S.**, see Wang, C., *TSG July 2020 3620-3631*
- Lei, S.**, see Wang, C., *TSG May 2020 2498-2510*
- Lei, S.**, Chen, C., Song, Y., and Hou, Y., Radiality Constraints for Resilient Reconfiguration of Distribution Systems: Formulation and Application to Microgrid Formation; *TSG Sept. 2020 3944-3956*
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- Lewis, F.L.**, see Zuo, S., *TSG Sept. 2020 3785-3794*
- Li, B.**, see Zheng, S., *TSG July 2020 3231-3245*
- Li, C.**, Rakhra, P., Norman, P., Niewczas, P., Burt, G., and Clarkson, P., Modulated Low Fault-Energy Protection Scheme for DC Smart Grids; *TSG Jan. 2020 84-94*
- Li, C.**, see Liu, X., *TSG July 2020 2816-2831*
- Li, C.**, see Li, J., *TSG Nov. 2020 4760-4772*
- Li, F.**, see Shi, Q., *TSG Jan. 2020 171-183*
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- Li, F.**, see Zhang, Z., *TSG March 2020 1205-1215*
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- Li, F., *see* Wang, M., *TSG Sept. 2020 4176-4189*
- Li, F., Qin, J., Wan, Y., and Yang, T., Decentralized Cooperative Optimal Power Flow of Multiple Interconnected Microgrids via Negotiation; *TSG Sept. 2020 3827-3836*
- Li, F., *see* Kou, X., *TSG Nov. 2020 4871-4882*
- Li, H., Wan, Z., and He, H., Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning; *TSG May 2020 2427-2439*
- Li, H., Wan, Z., and He, H., Real-Time Residential Demand Response; *TSG Sept. 2020 4144-4154*
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- Li, J., *see* Zheng, A., *TSG May 2020 2407-2416*
- Li, J., *see* Pan, Z., *TSG Sept. 2020 4261-4277*
- Li, J., Liu, C., Khodayar, M.E., Wang, M., Xu, Z., Zhou, B., and Li, C., Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation; *TSG Nov. 2020 4760-4772*
- Li, K., *see* Cao, J., *TSG Sept. 2020 4513-4521*
- Li, L., *see* Jabbari Ghadi, M., *TSG July 2020 2966-2979*
- Li, L., *see* Zhao, J., *TSG Nov. 2020 4714-4726*
- Li, M., *see* Laparra, G., *TSG Jan. 2020 411-419*
- Li, M., and Chen, Y., Wide-Area Robust Sliding Mode Controller for Power Systems With False Data Injection Attacks; *TSG March 2020 922-930*
- Li, N., *see* Chen, X., *TSG Jan. 2020 258-269*
- Li, N., *see* Magnusson, S., *TSG July 2020 3469-3482*
- Li, N., *see* Poolla, B.K., *TSG July 2020 3570-3579*
- Li, P., Zhang, C., Wu, Z., Xu, Y., Hu, M., and Dong, Z., Distributed Adaptive Robust Voltage/VAR Control With Network Partition in Active Distribution Networks; *TSG May 2020 2245-2256*
- Li, P., Sheng, W., Duan, Q., Li, Z., Zhu, C., and Zhang, X., A Lyapunov Optimization-Based Energy Management Strategy for Energy Hub With Energy Router; *TSG Nov. 2020 4860-4870*
- Li, R., *see* Zhang, Z., *TSG March 2020 1205-1215*
- Li, S., *see* Du, Y., *TSG Sept. 2020 3726-3736*
- Li, T., Wang, Y., and Zhang, N., Combining Probability Density Forecasts for Power Electrical Loads; *TSG March 2020 1679-1690*
- Li, W., Li, Y., Chen, C., Tan, Y., Cao, Y., Zhang, M., Peng, Y., and Chen, S., A Full Decentralized Multi-Agent Service Restoration for Distribution Network With DGs; *TSG March 2020 1100-1111*
- Li, W., *see* Yang, T., *TSG Sept. 2020 4427-4439*
- Li, X., *see* Zhang, F., *TSG March 2020 1253-1263*
- Li, X., *see* Wang, M., *TSG March 2020 981-994*
- Li, X., *see* Qian, T., *TSG July 2020 3019-3030*
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- Li, Y., *see* Li, W., *TSG March 2020 1100-1111*
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- Li, Y., *see* Wang, B., *TSG July 2020 3146-3155*
- Li, Y., *see* Zheng, S., *TSG July 2020 3231-3245*
- Li, Y., *see* Wei, F., *TSG May 2020 2151-2161*
- Li, Y., and Hu, B., An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain; *TSG May 2020 2627-2637*
- Li, Y., Gao, D.W., Gao, W., Zhang, H., and Zhou, J., Double-Mode Energy Management for Multi-Energy System via Distributed Dynamic Event-Triggered Newton-Raphson Algorithm; *TSG Nov. 2020 5339-5356*
- Li, Y., *see* Shi, X., *TSG Nov. 2020 5062-5071*
- Li, Z., *see* Huang, L., *TSG Jan. 2020 501-516*
- Li, Z., *see* Lu, M., *TSG Jan. 2020 528-540*
- Li, Z., *see* Zhou, H., *TSG March 2020 1543-1555*
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- Li, Z., *see* Liu, X., *TSG March 2020 1792-1795*
- Li, Z., *see* Fu, Y., *TSG March 2020 1510-1525*
- Li, Z., *see* Zhang, G., *TSG July 2020 2867-2879*
- Li, Z., *see* Gong, L., *TSG July 2020 3483-3495*
- Li, Z., Xu, Y., Fang, S., Zheng, X., and Feng, X., Robust Coordination of a Hybrid AC/DC Multi-Energy Ship Microgrid With Flexible Voyage and Thermal Loads; *TSG July 2020 2782-2793*
- Li, Z., *see* Song, M., *TSG May 2020 2452-2463*
- Li, Z., and Shahidehpour, M., Privacy-Preserving Collaborative Operation of Networked Microgrids With the Local Utility Grid Based on Enhanced Benders Decomposition; *TSG May 2020 2638-2651*
- Li, Z., *see* Shi, X., *TSG Nov. 2020 5062-5071*
- Li, Z., *see* Li, P., *TSG Nov. 2020 4860-4870*
- Li, Z., *see* Sui, Q., *TSG Nov. 2020 5249-5259*
- Liang, H., Ma, J., Sun, R., and Du, Y., A Data-Driven Approach for Targeting Residential Customers for Energy Efficiency Programs; *TSG March 2020 1229-1238*
- Liang, H., and Ma, J., Separation of Residential Space Cooling Usage From Smart Meter Data; *TSG July 2020 3107-3118*
- Liang, L., Hou, Y., and Hill, D.J., An Interconnected Microgrids-Based Transactional Energy System With Multiple Electric Springs; *TSG Jan. 2020 184-193*
- Liang, M., *see* Wang, J., *TSG Nov. 2020 5396-5406*
- Liang, Y., *see* Wang, C., *TSG Sept. 2020 4531-4543*
- Liang, Z., Chen, H., Wang, X., Chen, S., and Zhang, C., Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation; *TSG March 2020 1526-1542*
- Liao, J., Zhou, N., Huang, Y., and Wang, Q., Unbalanced Voltage Suppression in a Bipolar DC Distribution Network Based on DC Electric Springs; *TSG March 2020 1667-1678*
- Lim, G.J., *see* Wu, Y., *TSG March 2020 1007-1017*
- Lim, G.J., *see* Wu, Y., *TSG Nov. 2020 4650-4661*
- Lin, C., Wu, W., and Guo, Y., Decentralized Robust State Estimation of Active Distribution Grids Incorporating Microgrids Based on PMU Measurements; *TSG Jan. 2020 810-820*
- Lin, C., Wu, W., and Shahidehpour, M., Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids; *TSG May 2020 2531-2540*
- Lin, H., *see* Jiang, K., *TSG May 2020 2734-2736*
- Lin, J., *see* Chen, X., *TSG March 2020 1216-1228*
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- Lin, X., *see* Wei, F., *TSG May 2020 2151-2161*
- Lin, X., *see* Wei, F., *TSG May 2020 2722-2733*
- Lin, X., *see* Sui, Q., *TSG Nov. 2020 5249-5259*
- Lin, Y., and Wang, J., Probabilistic Deep Autoencoder for Power System Measurement Outlier Detection and Reconstruction; *TSG March 2020 1796-1798*
- Lin, Y., *see* Tong, J., *TSG July 2020 3359-3371*
- Lin, Y., *see* Xu, H., *TSG July 2020 3438-3446*
- Lin, Y., Wang, Y., Wang, J., Wang, S., and Shi, D., Global Sensitivity Analysis in Load Modeling via Low-Rank Tensor; *TSG May 2020 2737-2740*
- Lin, Z., *see* Liu, S., *TSG March 2020 1630-1643*
- Lin, Z., *see* Liu, S., *TSG Sept. 2020 4565-4568*
- Lindahl, P.A., *see* Shabshab, S.C., *TSG May 2020 1917-1927*
- Ling, Z., *see* Shi, X., *TSG March 2020 995-1006*
- Liu, B., and Wu, H., Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks; *TSG Sept. 2020 4345-4357*
- Liu, C., Hu, F., Shi, D., Zhang, X., Sun, K., and Wang, Z., Measurement-Based Voltage Stability Assessment Considering Generator VAR Limits; *TSG Jan. 2020 301-311*
- Liu, C., *see* Wu, X., *TSG March 2020 942-957*
- Liu, C., *see* Hu, X., *TSG Sept. 2020 4017-4031*
- Liu, C., *see* Li, J., *TSG Nov. 2020 4760-4772*
- Liu, F., *see* Chen, X., *TSG March 2020 1216-1228*
- Liu, F., *see* Chen, Y., *TSG May 2020 2055-2066*
- Liu, F., *see* Wang, C., *TSG Sept. 2020 4454-4465*
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- Liu, H., *see* Guo, Z., *TSG March 2020 1136-1146*
- Liu, H., *see* Sun, J., *TSG July 2020 3083-3094*
- Liu, H., *see* Xu, S., *TSG July 2020 3372-3383*

- Liu, J., *see* Zhang, Y., *TSG Jan. 2020* 762-773
- Liu, J., Weng, J., Yang, A., Chen, Y., and Lin, X., Enabling Efficient and Privacy-Preserving Aggregation Communication and Function Query for Fog Computing-Based Smart Grid; *TSG Jan. 2020* 247-257
- Liu, J., *see* Tong, J., *TSG July 2020* 3359-3371
- Liu, J., Qin, C., and Yu, Y., Enhancing Distribution System Resilience With Proactive Islanding and RCS-Based Fast Fault Isolation and Service Restoration; *TSG May 2020* 2381-2395
- Liu, K., *see* Ran, X., *TSG March 2020* 1430-1439
- Liu, K., *see* Zheng, K., *TSG Sept. 2020* 4555-4564
- Liu, L., *see* Liu, S., *TSG July 2020* 3606-3619
- Liu, M.Z., Procopiou, A.T., Petrou, K., Ochoa, L.F., Langstaff, T., Harding, J., and Theunissen, J., On the Fairness of PV Curtailment Schemes in Residential Distribution Networks; *TSG Sept. 2020* 4502-4512
- Liu, N., *see* Liu, W., *TSG Jan. 2020* 541-554
- Liu, P.X., *see* Zhang, C., *TSG Jan. 2020* 391-402
- Liu, R., *see* Liu, Z., *TSG July 2020* 2771-2781
- Liu, R., Lei, S., Peng, C., Sun, W., and Hou, Y., Data-Based Resilience Enhancement Strategies for Electric-Gas Systems Against Sequential Extreme Weather Events; *TSG Nov. 2020* 5383-5395
- Liu, S., Zhao, Y., Lin, Z., Liu, Y., Ding, Y., Yang, L., and Yi, S., Data-Driven Event Detection of Power Systems Based on Unequal-Interval Reduction of PMU Data and Local Outlier Factor; *TSG March 2020* 1630-1643
- Liu, S., Liu, L., Fan, Y., Zhang, L., Huang, Y., Zhang, T., Cheng, J., Wang, L., Zhang, M., Shi, R., and Mao, D., An Integrated Scheme for Online Dynamic Security Assessment Based on Partial Mutual Information and Iterated Random Forest; *TSG July 2020* 3606-3619
- Liu, S., You, S., Yin, H., Lin, Z., Liu, Y., Yao, W., and Sundaresh, L., Model-Free Data Authentication for Cyber Security in Power Systems; *TSG Sept. 2020* 4565-4568
- Liu, T., *see* Tian, J., *TSG Jan. 2020* 291-300
- Liu, T., *see* Nan, L., *TSG July 2020* 3558-3569
- Liu, T., *see* Su, X., *TSG May 2020* 1833-1844
- Liu, T., *see* Nan, L., *TSG Sept. 2020* 4569
- Liu, W., Chen, Y., Wang, L., Liu, N., Xu, H., and Liu, Z., An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems; *TSG Jan. 2020* 541-554
- Liu, W., *see* Fan, B., *TSG Jan. 2020* 577-589
- Liu, W., *see* Zhan, J., *TSG July 2020* 2995-3007
- Liu, W., *see* Yang, J., *TSG Sept. 2020* 4056-4069
- Liu, W., *see* Peng, J., *TSG Nov. 2020* 4626-4636
- Liu, X., *see* Peng, Y., *TSG March 2020* 1330-1342
- Liu, X., Song, Y., and Li, Z., Dummy Data Attacks in Power Systems; *TSG March 2020* 1792-1795
- Liu, X., *see* Yao, S., *TSG March 2020* 1030-1043
- Liu, X., Li, C., Shahidepour, M., Chen, X., Yi, J., Wu, Q., Sun, K., and Zhou, B., Fault Current Mitigation and Voltage Support Provision by Microgrids With Synchronous Generators; *TSG July 2020* 2816-2831
- Liu, X., Hou, K., Jia, H., Zhao, J., Mili, L., Jin, X., and Wang, D., A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters; *TSG Nov. 2020* 5431-5441
- Liu, Y., *see* Kosen, I., *TSG Jan. 2020* 739-748
- Liu, Y., *see* Yao, W., *TSG Jan. 2020* 895-904
- Liu, Y., *see* Chai, Y., *TSG March 2020* 968-980
- Liu, Y., *see* Qian, T., *TSG March 2020* 1387-1395
- Liu, Y., *see* Liu, S., *TSG March 2020* 1630-1643
- Liu, Y., *see* Nan, L., *TSG July 2020* 3558-3569
- Liu, Y., *see* Wang, W., *TSG July 2020* 3593-3605
- Liu, Y., *see* Qiu, W., *TSG July 2020* 3457-3468
- Liu, Y., Wang, Y., Zhang, N., Lu, D., and Kang, C., A Data-Driven Approach to Linearize Power Flow Equations Considering Measurement Noise; *TSG May 2020* 2576-2587
- Liu, Y., *see* Zhong, W., *TSG May 2020* 2552-2562
- Liu, Y., *see* Donti, P.L., *TSG May 2020* 2520-2530
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- Liu, Y., Gao, S., Shi, J., Wei, X., and Han, Z., Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks; *TSG Nov. 2020* 5151-5160
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- Liu, Y., Gao, S., Shi, J., Wei, X., Han, Z., and Huang, T., Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks; *TSG Nov. 2020* 5216-5226
- Liu, Z., *see* Liu, W., *TSG Jan. 2020* 541-554
- Liu, Z., You, S., Zhou, X., Ding, G., and Chen, L., Signal-Anticipation in Local Voltage Control in Distribution Systems; *TSG Jan. 2020* 233-246
- Liu, Z., Liu, R., Zhang, X., Su, M., Sun, Y., Han, H., and Wang, P., Feasible Power-Flow Solution Analysis of DC Microgrids Under Droop Control; *TSG July 2020* 2771-2781
- Liu, Z., *see* Lau, P., *TSG Sept. 2020* 4403-4414
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- Lotfifard, S., *see* Kiaei, I., *TSG Jan. 2020* 74-83
- Lou, G., Gu, W., Lu, X., Xu, Y., and Hong, H., Distributed Secondary Voltage Control in Islanded Microgrids With Consideration of Communication Network and Time Delays; *TSG Sept. 2020* 3702-3715
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- Lu, N., *see* Xie, F., *TSG May 2020* 2396-2406
- Lu, N., *see* Wang, J., *TSG Nov. 2020* 5396-5406
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- Luo, F., *see* Yang, J., *TSG Sept. 2020* 4056-4069
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- Lv, S., Wei, Z., Sun, G., Chen, S., and Zang, H., Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks; *TSG May 2020* 1854-1865
- Lymperopoulos, I., Qureshi, F.A., Bitlislioglu, A., Poland, J., Zanarini, A., Mercangoez, M., and Jones, C., Ancillary Services Provision Utilizing a Network of Fast-Charging Stations for Electrical Buses; *TSG Jan. 2020* 665-672
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## M

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- Mateo, C.**, Postigo, F., de Cuadra, F., Roman, T.G.S., Elgindy, T., Duenas, P., Hodge, B., Krishnan, V., and Palmintier, B., Building Large-Scale U.S. Synthetic Electric Distribution System Models; *TSG Nov. 2020 5301-5313*
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- Meng, L.**, Zafar, J., Khadem, S.K., Collinson, A., Murchie, K.C., Coffele, F., and Burt, G.M., Fast Frequency Response From Energy Storage Systems—A Review of Grid Standards, Projects and Technical Issues; *TSG March 2020 1566-1581*
- Meng, Y.**, see Wang, J., *TSG Nov. 2020 5396-5406*
- Mercangoez, M.**, see Lymperopoulos, I., *TSG Jan. 2020 665-672*
- Messina, F.**, Marchi, P., Rey Vega, L., and Galarza, C.G., A Self-Adaptive Contractive Algorithm for Enhanced Dynamic Phasor Estimation; *TSG May 2020 2367-2380*
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- Moffat, K.**, Bariya, M., and Von Meier, A., Unsupervised Impedance and Topology Estimation of Distribution Networks—Limitations and Tools; *TSG Jan. 2020 846-856*
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- Mohammadi, E.**, Rasoulinezhad, R., and Moschopoulos, G., Using a Supercapacitor to Mitigate Battery Microcycles Due to Wind Shear and Tower Shadow Effects in Wind-Diesel Microgrids; *TSG Sept. 2020 3677-3689*
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- Mohammadi, R.**, Mashhadi, H.R., and Shahidehpour, M., Enhancement of Distribution System Reliability: A Framework Based on Cournot Game Model; *TSG May 2020 2172-2181*
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- Mohiuddin, S.M.**, and Qi, J., Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees; *TSG May 2020 1956-1967*
- Mohsenian-Rad, H.**, Paolone, M., Kekatos, V., Ardakanian, O., Xu, Y., Shi, D., and Arghandeh, R., Guest Editorial Theory and Application of PMUs in Power Distribution Systems; *TSG Jan. 2020 723-725*
- Mohsenian-Rad, H.**, see Farajollahi, M., *TSG March 2020 1159-1170*
- Mokhtar, M.**, Robu, V., Flynn, D., Higgins, C., Whyte, J., Loughran, C., and Fulton, F., Automating the Verification of the Low Voltage Network Cables and Topologies; *TSG March 2020 1657-1666*
- Molavi, A.**, see Wu, Y., *TSG Nov. 2020 4650-4661*
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- Monti, A.**, see Lai, J., *TSG July 2020 2746-2759*
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- Morstyn, T.**, Teytelboym, A., Hepburn, C., and McCulloch, M.D., Integrating P2P Energy Trading With Probabilistic Distribution Locational Marginal Pricing; *TSG July 2020 3095-3106*
- Morstyn, T.**, see Cao, J., *TSG Sept. 2020 4513-4521*
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- Moussa, B.**, see Akaber, P., *TSG May 2020 2676-2687*
- Moussa, B.**, Al-Barakati, A., Kassouf, M., Debbabi, M., and Assi, C., Exploiting the Vulnerability of Relative Data Alignment in Phasor Data Concentrators to Time Synchronization Attacks; *TSG May 2020 2541-2551*
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- Mozafari, B.**, see Shahab, M.A., *TSG Jan. 2020 37-47*
- Mu, C.**, Zhang, Y., Jia, H., and He, H., Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties; *TSG March 2020 1748-1758*
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- Musilek, P.**, see Al-Saffar, M., *TSG July 2020 2980-2994*
- Musleh, A.S.**, Chen, G., and Dong, Z.Y., A Survey on the Detection Algorithms for False Data Injection Attacks in Smart Grids; *TSG May 2020 2218-2234*
- Mustafa, A.**, Poudel, B., Bidram, A., and Modares, H., Detection and Mitigation of Data Manipulation Attacks in AC Microgrids; *TSG May 2020 2588-2603*
- Muthirayan, D.**, Kalathil, D., Poolla, K., and Varaiya, P., Mechanism Design for Demand Response Programs; *TSG Jan. 2020 61-73*
- Muthirayan, D.**, Baeyens, E., Chakraborty, P., Poolla, K., and Khargonekar, P.P., A Minimal Incentive-Based Demand Response Program With Self Reported Baseline Mechanism; *TSG May 2020 2195-2207*

## N

- Naglic, M.**, Popov, M., van der Meijden, M.A.M.M., and Terzija, V., Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking; *TSG July 2020 3405-3417*
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- Nan, L.**, Wu, L., Liu, T., Liu, Y., and He, C., Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems; *TSG July 2020 3558-3569*
- Nan, L.**, Wu, L., Liu, T., Liu, Y., and He, C., Erratum to "Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems" [Jul 20 3558-3569]; *TSG Sept. 2020 4569*
- Narayan, A.**, see Khatami, R., *TSG Jan. 2020 644-654*
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- Nasiri, H.**, Bahramirad, S., Shahidehpour, M., Paaso, A.E., Abdullah, N.M., Maigha, and Kushner, D., Networked-Constrained DER Valuation in Distribution Networks; *TSG Nov. 2020 4809-4817*
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- Nguyen, L.N.**, Smith, J.D., Bae, J., Kang, J., Seo, J., and Thai, M.T., Auditing on Smart-Grid With Dynamic Traffic Flows: An Algorithmic Approach; *TSG May 2020 2293-2302*
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- Nikoobakht, A.**, see Baharvandi, A., *TSG Jan. 2020 357-367*
- Nikoobakht, A.**, Aghaei, J., Shafie-Khah, M., and Catalao, J.P.S., Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty; *TSG July 2020 3156-3170*
- Nikoobakht, A.**, Aghaei, J., Shafie-Khah, M., and Catalao, J.P.S., Minimizing Wind Power Curtailment Using a Continuous-Time Risk-Based Model of Generating Units and Bulk Energy Storage; *TSG Nov. 2020 4833-4846*
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## O

- Ochoa, L.F.**, see Liu, M.Z., *TSG Sept. 2020 4502-4512*
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- Olivella-Rosell, P.**, Rullan, F., Lloret-Gallego, P., Prieto-Araujo, E., Ferrer-San-Jose, R., Barja-Martinez, S., Bjarghov, S., Lakshmanan, V., Hentunen, A., Forsstrom, J., Ottesen, S.O., Villafila-Robles, R., and Sumper, A., Centralised and Distributed Optimization for Aggregated Flexibility Services Provision; *TSG July 2020 3257-3269*
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- Ostadijafari, M.**, Dubey, A., and Yu, N., Linearized Price-Responsive HVAC Controller for Optimal Scheduling of Smart Building Loads; *TSG July 2020 3131-3145*
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- Papadaskalopoulos, D.**, see Ye, Y., *TSG March 2020 1343-1355*
- Parastvand, H.**, Moghaddam, V., Bass, O., Masoum, M.A.S., Chapman, A., and Lachowicz, S., A Graph Automorphic Approach for Placement and Sizing of Charging Stations in EV Network Considering Traffic; *TSG Sept. 2020 4190-4200*
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- Parvania, M.**, see Oikonomou, K., *TSG Nov. 2020 4784-4794*
- Paudel, A.**, Sampath, L.P.M.I., Yang, J., and Gooi, H.B., Peer-to-Peer Energy Trading in Smart Grid Considering Power Losses and Network Fees; *TSG Nov. 2020 4727-4737*
- Paudyal, P.**, Munankarmi, P., Ni, Z., and Hansen, T.M., A Hierarchical Control Framework With a Novel Bidding Scheme for Residential Community Energy Optimization; *TSG Jan. 2020 710-719*

- Peisert, S.**, see Roberts, C., *TSG Jan. 2020 749-761*
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- Peng, C.**, see Liu, R., *TSG Nov. 2020 5383-5395*
- Peng, J.**, see Fan, B., *TSG Jan. 2020 577-589*
- Peng, J.**, Fan, B., Xu, H., and Liu, W., Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays; *TSG Nov. 2020 4626-4636*
- Peng, J.C.**, see Raman, G., *TSG July 2020 2805-2815*
- Peng, Y.**, see Li, W., *TSG March 2020 1100-1111*
- Peng, Y.**, Shuai, Z., Liu, X., Li, Z., Guerrero, J.M., and Shen, Z.J., Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions; *TSG March 2020 1330-1342*
- Peng, Y.**, see Wang, X., *TSG Sept. 2020 3993-4004*
- Perlaza, S.M.**, see Sun, K., *TSG March 2020 1276-1285*
- Perroy, E.**, Lucas, D., and Debusschere, V., Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling; *TSG Jan. 2020 26-36*
- Petrou, K.**, see Liu, M.Z., *TSG Sept. 2020 4502-4512*
- Pi, J.**, see Zhang, Y., *TSG March 2020 931-941*
- Piantanida, P.**, see Shateri, M., *TSG Nov. 2020 5174-5183*
- Pileggi, L.**, see Pandey, A., *TSG March 2020 1124-1135*
- Pileggi, L.**, see Jereminov, M., *TSG July 2020 3522-3534*
- Pineda, S.**, see Porras, A., *TSG Nov. 2020 4960-4970*
- Pinson, P.**, see Ziras, C., *TSG Jan. 2020 334-345*
- Pinson, P.**, see Xiao, Y., *TSG July 2020 3302-3312*
- Pipattanasomporn, M.**, see Adhikari, R., *TSG May 2020 2023-2032*
- Pitaval, S.**, see Carriere, T., *TSG May 2020 2281-2292*
- Poggi, J.**, see Goehry, B., *TSG May 2020 1895-1904*
- Poland, J.**, see Lymperopoulos, I., *TSG Jan. 2020 665-672*
- Poolla, B.K.**, Bolognani, S., Li, N., and Dorfler, F., A Market Mechanism for Virtual Inertia; *TSG July 2020 3570-3579*
- Poolla, K.**, see Muthirayan, D., *TSG Jan. 2020 61-73*
- Poolla, K.**, see Muthirayan, D., *TSG May 2020 2195-2207*
- Poor, H.V.**, see Zhao, Y., *TSG Jan. 2020 555-564*
- Poor, H.V.**, see Sun, K., *TSG March 2020 1276-1285*
- Poor, H.V.**, see Tushar, W., *TSG March 2020 1407-1418*
- Poor, H.V.**, see Tushar, W., *TSG July 2020 3185-3200*
- Popov, M.**, see Naglic, M., *TSG July 2020 3405-3417*
- Porras, A.**, Fernandez-Blanco, R., Morales, J.M., and Pineda, S., An Efficient Robust Approach to the Day-Ahead Operation of an Aggregator of Electric Vehicles; *TSG Nov. 2020 4960-4970*
- Postigo, F.**, see Krishnan, V., *TSG Sept. 2020 4477-4489*
- Postigo, F.**, see Mateo, C., *TSG Nov. 2020 5301-5313*
- Poudel, B.**, see Mustafa, A., *TSG May 2020 2588-2603*
- Pourahmadi, F.**, see Ghorani, R., *TSG March 2020 1781-1791*
- Pourakbari-Kasmaei, M.**, see Home-Ortiz, J.M., *TSG Sept. 2020 3932-3943*
- Pourramezan, R.**, Karimi, H., Mahseredjian, J., and Paolone, M., Real-Time Processing and Quality Improvement of Synchronophasor Data; *TSG July 2020 3313-3324*
- Power, T.**, Verbic, G., and Chapman, A.C., A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data; *TSG May 2020 2511-2519*
- Pozo, D.**, see Batista, A., *TSG Jan. 2020 229-232*
- Precup, D.**, see Wu, D., *TSG March 2020 1183-1192*
- Prieto-Araujo, E.**, see Olivella-Rosell, P., *TSG July 2020 3257-3269*
- Prieur de La Comble, I.**, see Schreck, S., *TSG July 2020 3212-3220*
- Procopiou, A.T.**, see Liu, M.Z., *TSG Sept. 2020 4502-4512*
- Protopapadakis, E.**, see Kaselimi, M., *TSG July 2020 3054-3067*
- Q**
- Qi, B.**, see Zheng, S., *TSG July 2020 3231-3245*
- Qi, J.**, see Mohiuddin, S.M., *TSG May 2020 1956-1967*
- Qian, T.**, Shao, C., Wang, X., and Shahidehpour, M., Deep Reinforcement Learning for EV Charging Navigation by Coordinating Smart Grid and Intelligent Transportation System; *TSG March 2020 1714-1723*
- Qian, T.**, Liu, Y., Zhang, W., Tang, W., and Shahidehpour, M., Event-Triggered Updating Method in Centralized and Distributed Secondary Controls for Islanded Microgrid Restoration; *TSG March 2020 1387-1395*
- Qian, T.**, Shao, C., Li, X., Wang, X., and Shahidehpour, M., Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services; *TSG July 2020 3019-3030*
- Qiao, Y.**, see Yang, J., *TSG March 2020 1724-1736*
- Qin, C.**, see Liu, J., *TSG May 2020 2381-2395*
- Qin, H.**, see Jiang, A., *TSG Sept. 2020 4201-4211*
- Qin, J.**, see Li, F., *TSG Sept. 2020 3827-3836*
- Qiu, D.**, see Ye, Y., *TSG March 2020 1343-1355*
- Qiu, D.**, see Ye, Y., *TSG July 2020 3068-3082*
- Qiu, J.**, see Zhao, H., *TSG May 2020 2303-2312*
- Qiu, R.**, see Shi, X., *TSG March 2020 995-1006*
- Qiu, W.**, Tang, Q., Wang, Y., Zhan, L., Liu, Y., and Yao, W., Multi-View Convolutional Neural Network for Data Spoofing Cyber-Attack Detection in Distribution Synchronophasors; *TSG July 2020 3457-3468*
- Qiuye, S.**, see Rui, W., *TSG July 2020 2856-2866*
- Qu, G.**, see Magnusson, S., *TSG July 2020 3469-3482*
- Qu, K.**, see Pan, Z., *TSG Sept. 2020 4261-4277*
- Qu, M.**, Ding, T., Wei, W., Dong, Z., Shahidehpour, M., and Xia, S., An Analytical Method for Generation Unit Aggregation in Virtual Power Plants; *TSG Nov. 2020 5466-5469*
- Quan, H.**, see Zhang, W., *TSG Nov. 2020 5442-5450*
- Quijano, N.**, see Velasquez, M.A., *TSG May 2020 1968-1979*
- Qureshi, F.A.**, see Lymperopoulos, I., *TSG Jan. 2020 665-672*
- R**
- Raeispour, M.**, Atrianfar, H., Baghaee, H.R., and Gharehpetian, G.B., Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications; *TSG Sept. 2020 3871-3884*
- Rahman, S.**, see Adhikari, R., *TSG May 2020 2023-2032*
- Rajabi, A.**, see Jabbari Ghadi, M., *TSG July 2020 2966-2979*
- Rajagopal, R.**, see Weng, Y., *TSG July 2020 3580-3592*
- Rajagopal, R.**, see Ji, Y., *TSG May 2020 2652-2661*
- Rajagopal, R.**, see Zhang, W., *TSG Nov. 2020 5442-5450*
- Rakhra, P.**, see Li, C., *TSG Jan. 2020 84-94*
- Raman, G.**, Peng, J.C., and Zeineldin, H.H., Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids; *TSG July 2020 2805-2815*
- Raman, N.S.**, and Barooah, P., On the Round-Trip Efficiency of an HVAC-Based Virtual Battery; *TSG Jan. 2020 403-410*
- Ramapuram Matavalam, A.R.**, Singhal, A., and Ajjarapu, V., Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements; *TSG Jan. 2020 873-883*
- Ran, X.**, Leng, S., and Liu, K., A Novel Affine Arithmetic Method With Missed the Triangular Domain With Uncertainties; *TSG March 2020 1430-1439*
- Ranzi, G.**, see Luo, F., *TSG Jan. 2020 4-14*
- Rapisarda, P.**, see Ruiz-Martinez, O.F., *TSG May 2020 2182-2194*
- Rashidzadeh-Kermani, H.**, Vahedipour-Dahraie, M., Shafie-Khah, M., and Siano, P., A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties; *TSG July 2020 3171-3184*
- Rasoulinezhad, R.**, see Mohammadi, E., *TSG Sept. 2020 3677-3689*
- Rastegar, M.**, see Afrasiabi, M., *TSG July 2020 3646-3657*
- Ravikumar, G.**, Ameme, D., Misra, S., Brahma, S., and Tourani, R., iCASM: An Information-Centric Network Architecture for Wide Area Measurement Systems; *TSG July 2020 3418-3427*
- Razavi-Far, R.**, Farajzadeh-Zanjani, M., Saif, M., and Chakrabarti, S., Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data; *TSG March 2020 1453-1464*
- Razi, R.**, Iman-Eini, H., Hamzeh, M., and Bacha, S., A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances; *TSG Sept. 2020 3795-3804*
- Razzaghi, R.**, see Derviskadic, A., *TSG Jan. 2020 726-738*

- Reising, D.R.**, see Wilson, A.J., *TSG Sept. 2020 4380-4389*
- Rey Vega, L.**, see Messina, F., *TSG May 2020 2367-2380*
- Roberts, C.**, Scaglione, A., Jamei, M., Gentz, R., Peisert, S., Stewart, E.M., McParland, C., McEachern, A., and Arnold, D., Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security; *TSG Jan. 2020 749-761*
- Robu, V.**, see Mokhtar, M., *TSG March 2020 1657-1666*
- Rodrigues, J.**, see Sekhvatmanesh, H., *TSG Sept. 2020 3957-3969*
- Rodrigues, Y.R.**, Abdelaziz, M., and Wang, L., D-PMU Based Secondary Frequency Control for Islanded Microgrids; *TSG Jan. 2020 857-872*
- Roijsers, D.M.**, see Silva, F.L.D., *TSG May 2020 2347-2356*
- Roman, T.G.S.**, see Krishnan, V., *TSG Sept. 2020 4477-4489*
- Roman, T.G.S.**, see Mateo, C., *TSG Nov. 2020 5301-5313*
- Romvary, J.**, see Haider, R., *TSG Nov. 2020 4891-4905*
- Ron Hui, S.Y.**, see Guo, J., *TSG Nov. 2020 4938-4948*
- Rosas-Caro, J.C.**, see Ruiz-Martinez, O.F., *TSG May 2020 2182-2194*
- Rosewater, D.**, Baldick, R., and Santoso, S., Risk-Averse Model Predictive Control Design for Battery Energy Storage Systems; *TSG May 2020 2014-2022*
- Rui, W.**, Qiuye, S., Dazhong, M., and Xuguang, H., Line Impedance Cooperative Stability Region Identification Method for Grid-Tied Inverters Under Weak Grids; *TSG July 2020 2856-2866*
- Ruiz, C.**, see Alonso, A.M., *TSG Sept. 2020 4522-4530*
- Ruiz-Martinez, O.F.**, Mayo-Maldonado, J.C., Escobar, G., Frias-Araya, B.A., Valdez-Resendiz, J.E., Rosas-Caro, J.C., and Rapisarda, P., Data-Driven Control of LVDC Network Converters: Active Load Stabilization; *TSG May 2020 2182-2194*
- Rullan, F.**, see Olivella-Rosell, P., *TSG July 2020 3257-3269*
- Ryu, Y.**, and Lee, H., A Real-Time Framework for Matching Prosumers With Minimum Risk in the Cluster of Microgrids; *TSG July 2020 2832-2844*
- S**
- Saad, A.**, Faddel, S., Youssef, T., and Mohammed, O.A., On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks; *TSG Nov. 2020 5138-5150*
- Saad, M.**, see Alzaareer, K., *TSG Sept. 2020 3921-3931*
- Sadeghi, A.**, see Yang, Q., *TSG May 2020 2313-2323*
- Sadeghianpourhamami, N.**, Deleu, J., and Develder, C., Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning; *TSG Jan. 2020 203-214*
- Saez, D.**, see Gomez, J.S., *TSG March 2020 1319-1329*
- Saez, D.**, see Burgos-Mellado, C., *TSG March 2020 1604-1619*
- Safdarian, F.**, and Kargarian, A., Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management; *TSG Sept. 2020 4544-4554*
- Saha, T.K.**, see Tushar, W., *TSG March 2020 1407-1418*
- Saha, T.K.**, see Tushar, W., *TSG July 2020 3185-3200*
- Saif, M.**, see Razavi-Far, R., *TSG March 2020 1453-1464*
- Salapaka, M.V.**, see Deka, D., *TSG Sept. 2020 4299-4310*
- Salimi, M.**, Nasr, M., Hosseini, S.H., Gharehpetian, G.B., and Shahidehpour, M., Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement; *TSG Sept. 2020 4390-4402*
- Sampath, L.P.M.I.**, see Paudel, A., *TSG Nov. 2020 4727-4737*
- Samudrala, A.N.**, Amini, M.H., Kar, S., and Blum, R.S., Sensor Placement for Outage Identifiability in Power Distribution Networks; *TSG May 2020 1996-2013*
- Samudrala, A.N.**, Amini, M.H., Kar, S., and Blum, R.S., Distributed Outage Detection in Power Distribution Networks; *TSG Nov. 2020 5124-5137*
- Sanchez Gorostiza, F.**, and Gonzalez-Longatt, F.M., Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System; *TSG Nov. 2020 5039-5050*
- Sankur, M.D.**, Dobbe, R., von Meier, A., and Arnold, D.B., Model-Free Optimal Voltage Phasor Regulation in Unbalanced Distribution Systems; *TSG Jan. 2020 884-894*
- Sanso, B.**, see Seyedi, Y., *TSG Sept. 2020 4415-4426*
- Santoso, S.**, see Rosewater, D., *TSG May 2020 2014-2022*
- Santoso, S.**, see Cunha, V.C., *TSG Nov. 2020 5028-5038*
- Sato, D.**, see Azuma, S., *TSG Jan. 2020 368-378*
- Saudemont, C.**, see Legry, M., *TSG Nov. 2020 4604-4613*
- Savaria, Y.**, see Laparra, G., *TSG Jan. 2020 411-419*
- Saxena, K.**, and Abhyankar, A.R., Agent-Based Distributed Computing for Power System State Estimation; *TSG Nov. 2020 5193-5202*
- Sayed, A.R.**, Wang, C., Zhao, J., and Bi, T., Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems; *TSG May 2020 2092-2105*
- Scaglione, A.**, see Roberts, C., *TSG Jan. 2020 749-761*
- Schmitt, A.J.**, see Donti, P.L., *TSG May 2020 2520-2530*
- Schneider, K.P.**, see Wu, X., *TSG March 2020 942-957*
- Schreck, S.**, Prieur de La Comble, I., Thiem, S., and Niessen, S., A Methodological Framework to support Load Forecast Error Assessment in Local Energy Markets; *TSG July 2020 3212-3220*
- Scott, P.**, see Attarha, A., *TSG March 2020 1620-1629*
- Seifi, A.R.**, see Abdolmaleki, B., *TSG May 2020 1905-1916*
- Sekhvatmanesh, H.**, Rodrigues, J., Moreira, C.L., Lopes, J.A.P., and Cherkaoui, R., Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors; *TSG Sept. 2020 3957-3969*
- Seo, J.**, see Nguyen, L.N., *TSG May 2020 2293-2302*
- Serpedin, E.**, see Ismail, M., *TSG July 2020 3428-3437*
- Serpedin, E.**, see Atat, R., *TSG May 2020 2080-2091*
- Seyedi, Y.**, Karimi, H., Wette, C., and Sanso, B., A New Approach to Reliability Assessment and Improvement of Synchrophasor Communications in Smart Grids; *TSG Sept. 2020 4415-4426*
- Shaaban, M.F.**, see Ismail, M., *TSG July 2020 3428-3437*
- Shaaban, M.F.**, see Atat, R., *TSG May 2020 2080-2091*
- Shabani, A.**, and Mazlumi, K., Evaluation of a Communication-Assisted Overcurrent Protection Scheme for Photovoltaic-Based DC Microgrid; *TSG Jan. 2020 429-439*
- Shabestary, M.M.**, and Mohamed, Y.A.I., Autonomous Coordinated Control Scheme for Cooperative Asymmetric Low-Voltage Ride-Through and Grid Support in Active Distribution Networks With Multiple DG Units; *TSG May 2020 2125-2139*
- Shabshab, S.C.**, Lindahl, P.A., Nowocin, J.K., Donnal, J., Blum, D., Norford, L., and Leeb, S.B., Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control; *TSG May 2020 1917-1927*
- Shafie-Khah, M.**, see Badakhshan, S., *TSG Jan. 2020 118-128*
- Shafie-Khah, M.**, see Jabbari Ghadi, M., *TSG July 2020 2966-2979*
- Shafie-Khah, M.**, see Nikoobakht, A., *TSG July 2020 3156-3170*
- Shafie-Khah, M.**, see Rashidzadeh-Kermani, H., *TSG July 2020 3171-3184*
- Shafie-Khah, M.**, see Nikoobakht, A., *TSG Nov. 2020 4833-4846*
- Shafiee, Q.**, see Abdolmaleki, B., *TSG May 2020 1905-1916*
- Shafiee, Q.**, see Ganjian-Aboukheili, M., *TSG May 2020 2106-2114*
- Shahab, M.A.**, Mozafari, B., Soleymani, S., Dehkordi, N.M., Shourkaei, H.M., and Guerrero, J.M., Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids; *TSG Jan. 2020 37-47*
- Shahabi, M.**, see Ganjian-Aboukheili, M., *TSG May 2020 2106-2114*
- Shahbazian, A.**, Fereidunian, A., and Manshadi, S.D., Optimal Switch Placement in Distribution Systems: A High-Accuracy MILP Formulation; *TSG Nov. 2020 5009-5018*
- Shahidehpour, M.**, see Wang, Y., *TSG Jan. 2020 590-601*
- Shahidehpour, M.**, see Badakhshan, S., *TSG Jan. 2020 118-128*
- Shahidehpour, M.**, see Jiang, Y., *TSG Jan. 2020 440-456*
- Shahidehpour, M.**, see Qian, T., *TSG March 2020 1714-1723*
- Shahidehpour, M.**, see Ghorani, R., *TSG March 2020 1781-1791*
- Shahidehpour, M.**, see Qian, T., *TSG March 2020 1387-1395*
- Shahidehpour, M.**, see Wang, Y., *TSG March 2020 1286-1295*
- Shahidehpour, M.**, see Liu, X., *TSG July 2020 2816-2831*
- Shahidehpour, M.**, see Gong, L., *TSG July 2020 3483-3495*
- Shahidehpour, M.**, see Farhoumandi, M., *TSG July 2020 3384-3393*
- Shahidehpour, M.**, see Qian, T., *TSG July 2020 3019-3030*
- Shahidehpour, M.**, see Wang, H., *TSG July 2020 2892-2903*
- Shahidehpour, M.**, see Guo, H., *TSG July 2020 3509-3521*
- Shahidehpour, M.**, see Wang, H., *TSG May 2020 1928-1941*
- Shahidehpour, M.**, see Velasquez, M.A., *TSG May 2020 1968-1979*

- Shahidehpour, M.**, see Song, M., *TSG May 2020 2452-2463*
- Shahidehpour, M.**, see Mohammadi, R., *TSG May 2020 2172-2181*
- Shahidehpour, M.**, see Lin, C., *TSG May 2020 2531-2540*
- Shahidehpour, M.**, see Li, Z., *TSG May 2020 2638-2651*
- Shahidehpour, M.**, see Zhou, Q., *TSG Sept. 2020 3690-3701*
- Shahidehpour, M.**, see Salimi, M., *TSG Sept. 2020 4390-4402*
- Shahidehpour, M.**, see Gan, W., *TSG Sept. 2020 4005-4016*
- Shahidehpour, M.**, see He, R., *TSG Sept. 2020 3763-3773*
- Shahidehpour, M.**, see Iranpour, M., *TSG Nov. 2020 5184-5192*
- Shahidehpour, M.**, see Shi, X., *TSG Nov. 2020 5062-5071*
- Shahidehpour, M.**, see Nasiri, H., *TSG Nov. 2020 4809-4817*
- Shahidehpour, M.**, see Qu, M., *TSG Nov. 2020 5466-5469*
- Shahidehpour, M.**, see Ding, T., *TSG Nov. 2020 4795-4808*
- Shahnia, F.**, see Kunwar, A., *TSG May 2020 1942-1955*
- Shahsavari, A.**, see Farajollahi, M., *TSG March 2020 1159-1170*
- Shan, Y.**, Hu, J., and Guerrero, J.M., A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability; *TSG March 2020 1018-1029*
- Shao, C.**, see Qian, T., *TSG March 2020 1714-1723*
- Shao, C.**, see Qian, T., *TSG July 2020 3019-3030*
- Shao, C.**, see Bao, M., *TSG Sept. 2020 4090-4104*
- Shao, X.**, see Zhao, J., *TSG Nov. 2020 4714-4726*
- Shateri, M.**, Messina, F., Piantanida, P., and Labeau, F., Real-Time Privacy-Preserving Data Release for Smart Meters; *TSG Nov. 2020 5174-5183*
- Shen, F.**, Wu, Q., Zhao, J., Wei, W., Hatziargyriou, N.D., and Liu, F., Distributed Risk-Limiting Load Restoration in Unbalanced Distribution Systems With Networked Microgrids; *TSG Nov. 2020 4574-4586*
- Shen, Z.J.**, see Peng, Y., *TSG March 2020 1330-1342*
- Sheng, H.**, and Wang, X., Online Measurement-Based Estimation of Dynamic System State Matrix in Ambient Conditions; *TSG Jan. 2020 95-105*
- Sheng, W.**, see Li, P., *TSG Nov. 2020 4860-4870*
- Shi, D.**, see Mohsenian-Rad, H., *TSG Jan. 2020 723-725*
- Shi, D.**, see Liu, C., *TSG Jan. 2020 301-311*
- Shi, D.**, see Lin, Y., *TSG May 2020 2737-2740*
- Shi, D.**, see Wang, X., *TSG Sept. 2020 4331-4344*
- Shi, D.**, see Hashmy, Y., *TSG Nov. 2020 5216-5226*
- Shi, F.**, see Wang, X., *TSG Jan. 2020 774-785*
- Shi, J.**, see Wu, Y., *TSG March 2020 1007-1017*
- Shi, J.**, see Wang, W., *TSG July 2020 3008-3018*
- Shi, J.**, see Gao, Y., *TSG Nov. 2020 5357-5369*
- Shi, J.**, see Liu, Y., *TSG Nov. 2020 5151-5160*
- Shi, J.**, see Wu, Y., *TSG Nov. 2020 4650-4661*
- Shi, J.**, see Liu, Y., *TSG Nov. 2020 5216-5226*
- Shi, K.**, see Zheng, S., *TSG July 2020 3231-3245*
- Shi, L.**, see Dai, Q., *TSG March 2020 1440-1452*
- Shi, M.**, Chen, X., Zhou, J., Chen, Y., Wen, J., and He, H., Distributed Optimal Control of Energy Storages in a DC Microgrid With Communication Delay; *TSG May 2020 2033-2042*
- Shi, M.**, see Zhou, J., *TSG Sept. 2020 3716-3725*
- Shi, Q.**, Chen, C., Mammoli, A., and Li, F., Estimating the Profile of Incentive-Based Demand Response (IBDR) by Integrating Technical Models and Social-Behavioral Factors; *TSG Jan. 2020 171-183*
- Shi, Q.**, see Wang, M., *TSG March 2020 981-994*
- Shi, Q.**, see Wang, M., *TSG Sept. 2020 4176-4189*
- Shi, R.**, see Liu, S., *TSG July 2020 3606-3619*
- Shi, X.**, Qiu, R., Ling, Z., Yang, F., Yang, H., and He, X., Spatio-Temporal Correlation Analysis of Online Monitoring Data for Anomaly Detection and Location in Distribution Networks; *TSG March 2020 995-1006*
- Shi, X.**, Xu, Y., Guo, Q., Sun, H., and Gu, W., A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network; *TSG July 2020 3545-3557*
- Shi, X.**, Cao, Y., Shahidehpour, M., Li, Y., Wu, X., and Li, Z., Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm; *TSG Nov. 2020 5062-5071*
- Shi, Y.**, see Cui, S., *TSG Sept. 2020 3817-3826*
- Shourkaei, H.M.**, see Shahab, M.A., *TSG Jan. 2020 37-47*
- Shuai, Z.**, see Peng, Y., *TSG March 2020 1330-1342*
- Siano, P.**, see Rashidzadeh-Kermani, H., *TSG July 2020 3171-3184*
- Siano, P.**, see Ghorbanian, M., *TSG Sept. 2020 4227-4235*
- Sikdar, B.**, see Chakrabarty, S., *TSG Nov. 2020 5161-5173*
- Silva, F.L.D.**, Nishida, C.E.H., Roijsers, D.M., and Costa, A.H.R., Coordination of Electric Vehicle Charging Through Multiagent Reinforcement Learning; *TSG May 2020 2347-2356*
- Simonetto, A.**, see Song, J., *TSG Jan. 2020 821-831*
- Simpson-Porco, J.W.**, see Gomez, J.S., *TSG March 2020 1319-1329*
- Singh, S.**, and Majumdar, A., Non-Intrusive Load Monitoring via Multi-Label Sparse Representation-Based Classification; *TSG March 2020 1799-1801*
- Singhal, A.**, see Ramapuram Matavalam, A.R., *TSG Jan. 2020 873-883*
- Smith, D.**, see Tushar, W., *TSG July 2020 3185-3200*
- Smith, J.D.**, see Nguyen, L.N., *TSG May 2020 2293-2302*
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- Soleymani, S.**, see Shahab, M.A., *TSG Jan. 2020 37-47*
- Sondermeijer, O.**, see Dobbe, R., *TSG March 2020 1296-1306*
- Song, J.**, Dall'Anese, E., Simonetto, A., and Zhu, H., Dynamic Distribution State Estimation Using Synchrophasor Data; *TSG Jan. 2020 821-831*
- Song, M.**, Sun, W., Wang, Y., Shahidehpour, M., Li, Z., and Gao, C., Hierarchical Scheduling of Aggregated TCL Flexibility for Transactive Energy in Power Systems; *TSG May 2020 2452-2463*
- Song, Y.**, see Jiang, Y., *TSG Jan. 2020 440-456*
- Song, Y.**, see Liu, X., *TSG March 2020 1792-1795*
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- Sossan, F.**, see Kalantar-Neyestanaki, M., *TSG May 2020 2464-2475*
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- Stankovic, L.**, see Afrasiabi, M., *TSG July 2020 3646-3657*
- Stankovic, S.**, and Soder, L., Probabilistic Reactive Power Capability Charts at DSO/TSO Interface; *TSG Sept. 2020 3860-3870*
- Starke, M.**, see Kou, X., *TSG Nov. 2020 4871-4882*
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- Su, M.**, see Liu, Z., *TSG July 2020 2771-2781*
- Su, W.**, see Chang, F., *TSG Nov. 2020 5273-5287*
- Su, X.**, He, C., Liu, T., and Wu, L., Full Parallel Power Flow Solution: A GPU-CPU-Based Vectorization Parallelization and Sparse Techniques for Newton-Raphson Implementation; *TSG May 2020 1833-1844*
- Sui, Q.**, Wei, F., Wu, C., Lin, X., and Li, Z., Day-Ahead Energy Management for Pelagic Island Microgrid Groups Considering Non-Integer-Hour Energy Transmission; *TSG Nov. 2020 5249-5259*
- Sumner, M.**, see Burgos-Mellado, C., *TSG March 2020 1604-1619*
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- Sun, H.**, see Fu, X., *TSG July 2020 2904-2917*
- Sun, H.**, see Zhao, Y., *TSG Sept. 2020 4236-4248*



- Sun, J.**, Chen, M., Liu, H., Yang, Q., and Yang, Z., Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market; *TSG July 2020 3083-3094*
- Sun, J.**, see Yang, Q., *TSG May 2020 2313-2323*
- Sun, J.**, Lin, W., Hong, M., and Loparo, K.A., Voltage Regulation of DC-Microgrid With PV and Battery; *TSG Nov. 2020 4662-4675*
- Sun, K.**, see Liu, C., *TSG Jan. 2020 301-311*
- Sun, K.**, Esnaola, I., Perlaza, S.M., and Poor, H.V., Stealth Attacks on the Smart Grid; *TSG March 2020 1276-1285*
- Sun, K.**, see Liu, X., *TSG July 2020 2816-2831*
- Sun, K.**, see Sun, L., *TSG Sept. 2020 3885-3895*
- Sun, L.**, Sun, K., Hou, Y., and Hu, J., Optimized Autonomous Operation Control to Maintain the Frequency, Voltage and Accurate Power Sharing for DGs in Islanded Systems; *TSG Sept. 2020 3885-3895*
- Sun, M.**, see Feng, C., *TSG March 2020 1377-1386*
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- Sun, M.**, see Hong, Q., *TSG July 2020 3394-3404*
- Sun, R.**, see Liang, H., *TSG March 2020 1229-1238*
- Sun, W.**, Zamani, M., Hesamzadeh, M.R., and Zhang, H., Data-Driven Probabilistic Optimal Power Flow With Nonparametric Bayesian Modeling and Inference; *TSG March 2020 1077-1090*
- Sun, W.**, see Song, M., *TSG May 2020 2452-2463*
- Sun, W.**, see Liu, R., *TSG Nov. 2020 5383-5395*
- Sun, Y.**, Bahrami, S., Wong, V.W.S., and Lampe, L., Chance-Constrained Frequency Regulation with Energy Storage Systems in Distribution Networks; *TSG Jan. 2020 215-228*
- Sun, Y.**, see Zhang, F., *TSG March 2020 1253-1263*
- Sun, Y.**, see Liu, Z., *TSG July 2020 2771-2781*
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## T

- Tabors, R.D.**, see Andrianesis, P., *TSG Jan. 2020 270-280*
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- Tai, H.**, see Yan, J., *TSG May 2020 2257-2270*
- Talukdar, S.**, see Deka, D., *TSG Sept. 2020 4299-4310*
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- Tan, Y.**, see Li, W., *TSG March 2020 1100-1111*
- Tang, J.**, see Yan, J., *TSG May 2020 2257-2270*
- Tang, K.**, Dong, S., Zhu, C., and Song, Y., Affine Arithmetic-Based Coordinated Interval Power Flow of Integrated Transmission and Distribution Networks; *TSG Sept. 2020 4116-4132*
- Tang, Q.**, see Qiu, W., *TSG July 2020 3457-3468*
- Tang, W.**, see Qian, T., *TSG March 2020 1387-1395*
- Tang, Y.**, Zhao, S., Ten, C., Zhang, K., and Logenthiran, T., Establishment of Enhanced Load Modeling by Correlating With Occupancy Information; *TSG March 2020 1702-1713*
- Tasdizen, T.**, see Hosseini, M.M., *TSG July 2020 3325-3333*
- Taylor, P.**, see Baharvandi, A., *TSG Jan. 2020 357-367*
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- Tesfatsion, L.**, see Battula, S., *TSG Nov. 2020 4996-5008*
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- Thomas, D.W.P.**, see Jia, K., *TSG Jan. 2020 48-60*
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- Thomas, D.W.P.**, see Aboshady, F.M., *TSG May 2020 2115-2124*
- Tian, J.**, Tan, R., Guan, X., Xu, Z., and Liu, T., Moving Target Defense Approach to Detecting Stuxnet-Like Attacks; *TSG Jan. 2020 291-300*
- Tian, Y.**, see Hong, T., *TSG May 2020 2357-2366*
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- Tindemans, S.H.**, see Evans, M.P., *TSG Jan. 2020 106-117*
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- Tomlin, C.**, see Dobbe, R., *TSG March 2020 1296-1306*
- Ton, D.T.**, see Wu, X., *TSG March 2020 942-957*
- Tong, J.**, Wu, H., Lin, Y., He, Y., and Liu, J., Fog-Computing-Based Short-Circuit Diagnosis Scheme; *TSG July 2020 3359-3371*
- Tourani, R.**, see Ravikumar, G., *TSG July 2020 3418-3427*
- Touri, B.**, see Garifi, K., *TSG Sept. 2020 4070-4079*
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- Trovato, M.A.**, see Violante, W., *TSG July 2020 2880-2891*
- Tsaousoglou, G.**, Steriotis, K., Efthymiopoulos, N., Makris, P., and Varvarigos, E., Truthful, Practical and Privacy-Aware Demand Response in the Smart Grid via a Distributed and Optimal Mechanism; *TSG July 2020 3119-3130*
- Tsimtsios, A.M.**, and Nikolaidis, V.C., Towards Plug-and-Play Protection for Meshed Distribution Systems With DG; *TSG May 2020 1980-1995*
- Tu, H.**, see Du, Y., *TSG July 2020 2918-2928*
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- Tucker, N.**, and Alizadeh, M., An Online Admission Control Mechanism for Electric Vehicles at Public Parking Infrastructures; *TSG Jan. 2020 161-170*
- Tucker, N.**, Moradipari, A., and Alizadeh, M., Constrained Thompson Sampling for Real-Time Electricity Pricing With Grid Reliability Constraints; *TSG Nov. 2020 4971-4983*
- Tushar, Venkataramanan, V.**, Srivastava, A., and Hahn, A., CP-TRAM: Cyber-Physical Transmission Resiliency Assessment Metric; *TSG Nov. 2020 5114-5123*
- Tushar, W.**, Saha, T.K., Yuen, C., Morstyn, T., Nahid-Al-Masood, Poor, H.V., and Bean, R., Grid Influenced Peer-to-Peer Energy Trading; *TSG March 2020 1407-1418*
- Tushar, W.**, Saha, T.K., Yuen, C., Smith, D., and Poor, H.V., Peer-to-Peer Trading in Electricity Networks: An Overview; *TSG July 2020 3185-3200*

## U

- Uchida, K.**, see Haider, R., *TSG Nov. 2020 4891-4905*
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## V

- Vahedipour-Dahraie, M.**, see Rashidzadeh-Kermani, H., *TSG July 2020 3171-3184*
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- Vaya, M.G.**, see Karagiannopoulos, S., *TSG Jan. 2020 623-633*
- Velasquez, M.A.**, Barreiro-Gomez, J., Quijano, N., Cadena, A.I., and Shahidepour, M., Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control; *TSG May 2020 1968-1979*
- Venkataramanan, V.**, Hahn, A., and Srivastava, A., CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency; *TSG March 2020 1055-1065*

Venkataramanan, V., *see* Tushar, .., *TSG Nov. 2020 5114-5123*  
 Venkatesh, B., *see* Elkasrawy, A., *TSG Sept. 2020 4167-4175*  
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 Villafafila-Robles, R., *see* Olivella-Rosell, P., *TSG July 2020 3257-3269*  
 Violante, W., Canizares, C.A., Trovato, M.A., and Forte, G., An Energy Management System for Isolated Microgrids With Thermal Energy Resources; *TSG July 2020 2880-2891*  
 von Meier, A., *see* Sankur, M.D., *TSG Jan. 2020 884-894*  
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 Voulodimos, A., *see* Kaselimi, M., *TSG July 2020 3054-3067*  
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## W

Wagner, M.R., *see* Jereminov, M., *TSG July 2020 3522-3534*  
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 Wang, B., *see* Wu, D., *TSG March 2020 1183-1192*  
 Wang, B., Li, Y., Ming, W., and Wang, S., Deep Reinforcement Learning Method for Demand Response Management of Interruptible Load; *TSG July 2020 3146-3155*  
 Wang, B., Dehghanian, P., and Zhao, D., Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles; *TSG May 2020 2324-2336*  
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 Wang, C., *see* Chai, Y., *TSG March 2020 968-980*  
 Wang, C., *see* Huang, C., *TSG March 2020 1476-1488*  
 Wang, C., Lei, S., Ju, P., Chen, C., Peng, C., and Hou, Y., MDP-Based Distribution Network Reconfiguration With Renewable Distributed Generation: Approximate Dynamic Programming Approach; *TSG July 2020 3620-3631*  
 Wang, C., *see* Sayed, A.R., *TSG May 2020 2092-2105*  
 Wang, C., Ju, P., Lei, S., Wang, Z., Wu, F., and Hou, Y., Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach; *TSG May 2020 2498-2510*  
 Wang, C., Gong, Z., Liang, Y., Wei, W., and Bi, T., Data-Driven Wind Generation Admissibility Assessment of Integrated Electric-Heat Systems: A Dynamic Convex Hull-Based Approach; *TSG Sept. 2020 4531-4543*  
 Wang, C., Wang, S., Liu, F., Bi, T., and Wang, T., Risk-Loss Coordinated Admissibility Assessment of Wind Generation for Integrated Electric-Gas Systems; *TSG Sept. 2020 4454-4465*  
 Wang, D., *see* Liu, X., *TSG Nov. 2020 5431-5441*  
 Wang, F., *see* Xu, H., *TSG July 2020 3438-3446*  
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 Wang, H., *see* Zhao, D., *TSG March 2020 1112-1123*  
 Wang, H., Yan, Z., Shahidehpour, M., Xu, X., and Zhou, Q., Quantitative Evaluations of Uncertainties in Multivariate Operations of Microgrids; *TSG July 2020 2892-2903*  
 Wang, H., Jiang, K., Shahidehpour, M., and He, B., Reduced-Order State Space Model for Dynamic Phasors in Active Distribution Networks; *TSG May 2020 1928-1941*  
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 Wang, J., *see* Wang, X., *TSG Sept. 2020 4331-4344*  
 Wang, J., *see* Zhang, Y., *TSG Sept. 2020 3982-3992*  
 Wang, J., Zhu, X., Liang, M., Meng, Y., Kling, A., Lubkeman, D.L., and Lu, N., A Data-Driven Pivot-Point-Based Time-Series Feeder Load Disaggregation Method; *TSG Nov. 2020 5396-5406*  
 Wang, L., *see* Rodrigues, Y.R., *TSG Jan. 2020 857-872*  
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 Wang, L., *see* Liu, S., *TSG July 2020 3606-3619*  
 Wang, L., *see* Lau, P., *TSG Sept. 2020 4403-4414*  
 Wang, M., Mu, Y., Li, F., Jia, H., Li, X., Shi, Q., and Jiang, T., State Space Model of Aggregated Electric Vehicles for Frequency Regulation; *TSG March 2020 981-994*  
 Wang, M., Mu, Y., Shi, Q., Jia, H., and Li, F., Electric Vehicle Aggregator Modeling and Control for Frequency Regulation Considering Progressive State Recovery; *TSG Sept. 2020 4176-4189*  
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 Wang, M., *see* Li, J., *TSG Nov. 2020 4760-4772*  
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 Wang, P., *see* Xu, Q., *TSG July 2020 3496-3508*  
 Wang, P., *see* Xia, Y., *TSG July 2020 2794-2804*  
 Wang, P., Wu, D., and Kalsi, K., Flexibility Estimation and Control of Thermodynamically Controlled Loads With Lock Time for Regulation Service; *TSG July 2020 3221-3230*  
 Wang, P., and Govindarasu, M., Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid; *TSG July 2020 3447-3456*  
 Wang, P., *see* Bao, M., *TSG Sept. 2020 4090-4104*  
 Wang, Q., *see* Liao, J., *TSG March 2020 1667-1678*  
 Wang, S., Dong, Z.Y., Chen, C., Fan, H., and Luo, F., Expansion Planning of Active Distribution Networks With Multiple Distributed Energy Resources and EV Sharing System; *TSG Jan. 2020 602-611*  
 Wang, S., *see* Wang, B., *TSG July 2020 3146-3155*  
 Wang, S., *see* Lin, Y., *TSG May 2020 2737-2740*  
 Wang, S., and Zhao, D., A Hierarchical Power Grid Fault Diagnosis Method Using Multi-Source Information; *TSG May 2020 2067-2079*  
 Wang, S., Dong, Y., Wu, L., and Yan, B., Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties; *TSG May 2020 2709-2721*  
 Wang, S., Wang, X., and Wu, W., Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids; *TSG Sept. 2020 3774-3784*  
 Wang, S., *see* Wang, C., *TSG Sept. 2020 4454-4465*  
 Wang, S., Du, L., Ye, J., and Zhao, D., A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles; *TSG Nov. 2020 4916-4927*  
 Wang, T., *see* Wang, C., *TSG Sept. 2020 4454-4465*  
 Wang, W., *see* Yao, W., *TSG Jan. 2020 895-904*  
 Wang, W., Yin, H., Chen, C., Till, A., Yao, W., Deng, X., and Liu, Y., Frequency Disturbance Event Detection Based on Synchrophasors and Deep Learning; *TSG July 2020 3593-3605*  
 Wang, W., Yu, N., Gao, Y., and Shi, J., Safe Off-Policy Deep Reinforcement Learning Algorithm for Volt-VAR Control in Power Distribution Systems; *TSG July 2020 3008-3018*  
 Wang, W., *see* Gao, Y., *TSG Nov. 2020 5357-5369*  
 Wang, X., *see* Sheng, H., *TSG Jan. 2020 95-105*  
 Wang, X., Zhang, H., Shi, F., Wu, Q., Terzija, V., Xie, W., and Fang, C., Location of Single Phase to Ground Faults in Distribution Networks Based on Synchronous Transients Energy Analysis; *TSG Jan. 2020 774-785*  
 Wang, X., *see* Zhang, C., *TSG Jan. 2020 391-402*  
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- Wang, X., *see* Liang, Z., *TSG March 2020 1526-1542*
- Wang, X., *see* Xiao, Y., *TSG July 2020 3302-3312*
- Wang, X., *see* Xiao, Y., *TSG July 2020 3302-3312*
- Wang, X., *see* Qian, T., *TSG July 2020 3019-3030*
- Wang, X., Wang, Y., Shi, D., Wang, J., and Wang, Z., Two-Stage WECC Composite Load Modeling: A Double Deep Q-Learning Networks Approach; *TSG Sept. 2020 4331-4344*
- Wang, X., *see* Wang, S., *TSG Sept. 2020 3774-3784*
- Wang, X., *see* Xiao, F., *TSG Sept. 2020 4366-4379*
- Wang, X., Peng, Y., Weng, C., Xia, Y., Wei, W., and Yu, M., Decentralized and Per-Unit Primary Control Framework for DC Distribution Networks With Multiple Voltage Levels; *TSG Sept. 2020 3993-4004*
- Wang, X., *see* Zenelis, L., *TSG Nov. 2020 5451-5461*
- Wang, X., *see* Zhao, J., *TSG Nov. 2020 4714-4726*
- Wang, Y., Huang, L., Shahidehpour, M., Lai, L.L., and Zhou, Y., Impact of Cascading and Common-Cause Outages on Resilience-Constrained Optimal Economic Operation of Power Systems; *TSG Jan. 2020 590-601*
- Wang, Y., *see* Huang, C., *TSG March 2020 1476-1488*
- Wang, Y., *see* Xiang, Y., *TSG March 2020 1809-1811*
- Wang, Y., Huang, Z., Shahidehpour, M., Lai, L.L., Wang, Z., and Zhu, Q., Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System; *TSG March 2020 1286-1295*
- Wang, Y., *see* Li, T., *TSG March 2020 1679-1690*
- Wang, Y., *see* Qiu, W., *TSG July 2020 3457-3468*
- Wang, Y., *see* Lin, Y., *TSG May 2020 2737-2740*
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- Wang, Y., *see* Liu, Y., *TSG May 2020 2576-2587*
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- Wang, Y., *see* Cui, S., *TSG Sept. 2020 3817-3826*
- Wang, Y., *see* Zhang, J., *TSG Sept. 2020 4440-4453*
- Wang, Y., Nguyen, T., Xu, Y., Tran, Q., and Caire, R., Peer-to-Peer Control for Networked Microgrids: Multi-Layer and Multi-Agent Architecture Design; *TSG Nov. 2020 4688-4699*
- Wang, Z., *see* Huang, L., *TSG Jan. 2020 501-516*
- Wang, Z., *see* Liu, C., *TSG Jan. 2020 301-311*
- Wang, Z., *see* Arif, A., *TSG Jan. 2020 673-685*
- Wang, Z., *see* Arif, A., *TSG Jan. 2020 565-576*
- Wang, Z., *see* Zhang, Q., *TSG March 2020 1193-1204*
- Wang, Z., *see* Wang, Y., *TSG March 2020 1286-1295*
- Wang, Z., *see* Guo, Z., *TSG July 2020 2954-2965*
- Wang, Z., *see* Dai, R., *TSG May 2020 1845-1853*
- Wang, Z., *see* Wang, C., *TSG May 2020 2498-2510*
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- Wang, Z., *see* Wang, X., *TSG Sept. 2020 4331-4344*
- Wang, Z., *see* Bu, F., *TSG Nov. 2020 5407-5417*
- Wang, Z., *see* Zhang, G., *TSG Nov. 2020 4847-4859*
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- Wang, Z., *see* Ding, T., *TSG Nov. 2020 4795-4808*
- Ward, J., *see* Ye, Y., *TSG July 2020 3068-3082*
- Wasa, Y., *see* Haider, R., *TSG Nov. 2020 4891-4905*
- Wei, F., Wan, Z., and He, H., Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning; *TSG May 2020 2476-2486*
- Wei, F., Wan, Z., He, H., Lin, X., and Li, Y., A Novel Scheduling Strategy for Controllable Loads With Power-Efficiency Characteristics; *TSG May 2020 2151-2161*
- Wei, F., Wan, Z., He, H., and Lin, X., Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter; *TSG May 2020 2722-2733*
- Wei, F., *see* Sui, Q., *TSG Nov. 2020 5249-5259*
- Wei, H., *see* Jiang, A., *TSG Sept. 2020 4201-4211*
- Wei, W., *see* Guo, Z., *TSG July 2020 2954-2965*
- Wei, W., *see* Xia, Y., *TSG July 2020 2794-2804*
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- Wei, W., *see* Qu, M., *TSG Nov. 2020 5466-5469*
- Wei, X., *see* Liu, Y., *TSG Nov. 2020 5151-5160*
- Wei, X., *see* Liu, Y., *TSG Nov. 2020 5216-5226*
- Wei, Z., *see* Lv, S., *TSG May 2020 1854-1865*
- Wen, F., *see* Yang, J., *TSG March 2020 1724-1736*
- Wen, F., *see* Zhao, H., *TSG May 2020 2303-2312*
- Wen, F., *see* Yang, J., *TSG Sept. 2020 4056-4069*
- Wen, G., *see* Hu, X., *TSG Sept. 2020 4017-4031*
- Wen, J., *see* Shi, M., *TSG May 2020 2033-2042*
- Wen, J., *see* Gan, W., *TSG Sept. 2020 4005-4016*
- Wen, J., *see* Zhou, J., *TSG Sept. 2020 3716-3725*
- Weng, C., *see* Wang, X., *TSG Sept. 2020 3993-4004*
- Weng, J., *see* Liu, J., *TSG Jan. 2020 247-257*
- Weng, Y., *see* Cui, Q., *TSG Jan. 2020 797-809*
- Weng, Y., Rajagopal, R., and Zhang, B., A Geometric Analysis of Power System Loadability Regions; *TSG July 2020 3580-3592*
- Weng, Y., *see* Zhang, J., *TSG Sept. 2020 4440-4453*
- Weng, Y., *see* Guddanti, K.P., *TSG Nov. 2020 5203-5215*
- Weng, Y., *see* Hashmy, Y., *TSG Nov. 2020 5072-5083*
- Wette, C., *see* Seyedi, Y., *TSG Sept. 2020 4415-4426*
- Whyte, J., *see* Mokhtar, M., *TSG March 2020 1657-1666*
- Wilson, A.J., Reising, D.R., Hay, R.W., Johnson, R.C., Karrar, A.A., and Daniel Loveless, T., Automated Identification of Electrical Disturbance Waveforms Within an Operational Smart Power Grid; *TSG Sept. 2020 4380-4389*
- Wilson, D., *see* Hong, Q., *TSG July 2020 3394-3404*
- Wong, V.W.S., *see* Sun, Y., *TSG Jan. 2020 215-228*
- Wong, W.K., *see* Chai, S., *TSG Nov. 2020 5370-5382*
- Wu, C., *see* Sui, Q., *TSG Nov. 2020 5249-5259*
- Wu, D., Wang, B., Precup, D., and Boulet, B., Multiple Kernel Learning-Based Transfer Regression for Electric Load Forecasting; *TSG March 2020 1183-1192*
- Wu, D., *see* Wang, P., *TSG July 2020 3221-3230*
- Wu, F., *see* Wang, C., *TSG May 2020 2498-2510*
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- Wu, Q., *see* Xiao, F., *TSG Sept. 2020 4366-4379*
- Wu, Q., *see* Shen, F., *TSG Nov. 2020 4574-4586*
- Wu, Q.H., *see* Zhou, H., *TSG March 2020 1543-1555*
- Wu, W., *see* Lin, C., *TSG Jan. 2020 810-820*
- Wu, W., *see* Xu, Y., *TSG Jan. 2020 686-695*
- Wu, W., *see* Lin, C., *TSG May 2020 2531-2540*
- Wu, W., *see* Wang, S., *TSG Sept. 2020 3774-3784*
- Wu, X., Xu, Y., He, J., Guerrero, J.M., Liu, C., Schneider, K.P., and Ton, D.T., A Two-Layer Distributed Cooperative Control Method for Islanded Networked Microgrid Systems; *TSG March 2020 942-957*
- Wu, X., *see* Wu, X., *TSG March 2020 942-957*
- Wu, X., *see* Ye, Y., *TSG July 2020 3068-3082*
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- Wu, Y., Lim, G.J., and Shi, J., Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve; *TSG March 2020 1007-1017*

**Wu, Y., Shi, J., Lim, G.J., Fan, L., and Molavi, A.,** Optimal Management of Transactive Distribution Electricity Markets With Co-Optimized Bidirectional Energy and Ancillary Service Exchanges; *TSG Nov. 2020 4650-4661*  
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## X

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**Xia, Q.,** *see* Guo, H., *TSG July 2020 3509-3521*  
**Xia, S.,** *see* Qu, M., *TSG Nov. 2020 5466-5469*  
**Xia, Y.,** Wei, W., Long, T., Blaabjerg, F., and Wang, P., New Analysis Framework for Transient Stability Evaluation of DC Microgrids; *TSG July 2020 2794-2804*  
**Xia, Y.,** *see* Yang, P., *TSG May 2020 2615-2626*  
**Xia, Y.,** *see* Wang, X., *TSG Sept. 2020 3993-4004*  
**Xiang, S.,** Chang, L., Cao, B., He, Y., and Zhang, C., A Novel Domestic Electric Water Heater Control Method; *TSG July 2020 3246-3256*  
**Xiang, Y.,** Hong, J., Yang, Z., Wang, Y., Huang, Y., Zhang, X., Chai, Y., and Yao, H., Slope-Based Shape Cluster Method for Smart Metering Load Profiles; *TSG March 2020 1809-1811*  
**Xiao, F.,** Lu, T., Ai, Q., Wang, X., Chen, X., Fang, S., and Wu, Q., Design and Implementation of a Data-Driven Approach to Visualizing Power Quality; *TSG Sept. 2020 4366-4379*  
**Xiao, J.,** *see* Cui, S., *TSG Sept. 2020 3817-3826*  
**Xiao, Q.,** *see* Dong, C., *TSG Nov. 2020 5084-5098*  
**Xiao, X.,** *see* Yang, X., *TSG May 2020 2662-2675*  
**Xiao, Y.,** Wang, X., Pinson, P., and Wang, X., Transactive Energy Based Aggregation of Prosumers as a Retailer; *TSG July 2020 3302-3312*  
**Xie, F.,** Yu, H., Long, Q., Zeng, W., and Lu, N., Battery Model Parameterization Using Manufacturer Datasheet and Field Measurement for Real-Time HIL Applications; *TSG May 2020 2396-2406*  
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**Xie, K.,** *see* Zhong, W., *TSG May 2020 2552-2562*  
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**Xie, S.,** *see* Zhong, W., *TSG Sept. 2020 4105-4115*  
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**Xin, H.,** *see* Huang, L., *TSG Jan. 2020 501-516*  
**Xin, H.,** *see* Huang, L., *TSG Sept. 2020 3805-3816*  
**Xing, L.,** Mishra, Y., Guo, F., Lin, P., Yang, Y., Ledwich, G., and Tian, Y., Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid; *TSG May 2020 2487-2497*  
**Xiong, S.,** Liu, Y., Fang, J., Dai, J., Luo, L., and Jiang, X., Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning; *TSG Nov. 2020 5239-5248*  
**Xu, F.,** *see* Xue, A., *TSG Jan. 2020 346-356*  
**Xu, H.,** *see* Liu, W., *TSG Jan. 2020 541-554*  
**Xu, H.,** Lin, Y., Zhang, X., and Wang, F., Power System Parameter Attack for Financial Profits in Electricity Markets; *TSG July 2020 3438-3446*  
**Xu, H.,** *see* Peng, J., *TSG Nov. 2020 4626-4636*  
**Xu, J.,** *see* Xue, A., *TSG Jan. 2020 346-356*  
**Xu, Q.,** Zhao, T., Xu, Y., Xu, Z., Wang, P., and Blaabjerg, F., A Distributed and Robust Energy Management System for Networked Hybrid AC/DC Microgrids; *TSG July 2020 3496-3508*  
**Xu, S.,** Liu, H., Bi, T., and Martin, K.E., A High-Accuracy Phasor Estimation Algorithm for PMU Calibration and Its Hardware Implementation; *TSG July 2020 3372-3383*  
**Xu, X.,** Jia, Y., Xu, Y., Xu, Z., Chai, S., and Lai, C.S., A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management; *TSG July 2020 3201-3211*  
**Xu, X.,** *see* Wang, H., *TSG July 2020 2892-2903*  
**Xu, Y.,** *see* Mohsenian-Rad, H., *TSG Jan. 2020 723-725*

**Xu, Y.,** Wu, W., and Zhou, J., A Distributed Task Allocation Based on a Winner-Take-All Approach for Multiple Energy Storage Systems Coordination in a Microgrid; *TSG Jan. 2020 686-695*  
**Xu, Y.,** *see* Yang, L., *TSG March 2020 1465-1475*  
**Xu, Y.,** *see* Yang, L., *TSG March 2020 1802-1804*  
**Xu, Y.,** *see* Wu, X., *TSG March 2020 942-957*  
**Xu, Y.,** Korkali, M., Mili, L., Chen, X., and Min, L., Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method; *TSG March 2020 1593-1603*  
**Xu, Y.,** *see* Xu, Q., *TSG July 2020 3496-3508*  
**Xu, Y.,** *see* Shi, X., *TSG July 2020 3545-3557*  
**Xu, Y.,** *see* Li, Z., *TSG July 2020 2782-2793*  
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**Xu, Y.,** *see* Li, P., *TSG May 2020 2245-2256*  
**Xu, Y.,** *see* Lou, G., *TSG Sept. 2020 3702-3715*  
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**Xu, Y.,** *see* Zhang, C., *TSG Nov. 2020 5288-5300*  
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**Xu, Z.,** *see* Zhao, J., *TSG Nov. 2020 4714-4726*  
**Xuan, Z.,** *see* Jia, K., *TSG Jan. 2020 323-333*  
**Xue, A.,** Xu, F., Xu, J., Chow, J.H., You, H., and Bi, T., Correction of Phasor Measurements Independent of Transmission Line Parameters; *TSG Jan. 2020 346-356*  
**Xue, Y.,** *see* Cao, W., *TSG Sept. 2020 3662-3676*  
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## Y

**Yaghmaee, M.H.,** *see* Fallah-Mehrdadi, O., *TSG Nov. 2020 4949-4959*  
**Yahya Soltani, N.,** and Nasiri, A., Chance-Constrained Optimization of Energy Storage Capacity for Microgrids; *TSG July 2020 2760-2770*  
**Yamaguchi, N.,** *see* Azuma, S., *TSG Jan. 2020 368-378*  
**Yan, B.,** *see* Wang, S., *TSG May 2020 2709-2721*  
**Yan, J.,** Hu, B., Xie, K., Tang, J., and Tai, H., Data-Driven Transmission Defense Planning Against Extreme Weather Events; *TSG May 2020 2257-2270*  
**Yan, J.,** *see* Ghafouri, M., *TSG Nov. 2020 5227-5238*  
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**Yang, J.,** *see* Zhang, C., *TSG Jan. 2020 391-402*  
**Yang, J.,** Dong, Z.Y., Wen, F., Chen, G., and Qiao, Y., A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs; *TSG March 2020 1724-1736*  
**Yang, J.,** *see* Zhan, J., *TSG July 2020 2995-3007*  
**Yang, J.,** Zhang, W., and Guo, F., Dynamic State Estimation for Power Networks by Distributed Unscented Information Filter; *TSG May 2020 2162-2171*  
**Yang, J.,** Dong, Z.Y., Wen, F., Chen, Q., Luo, F., Liu, W., and Zhan, J., A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market; *TSG Sept. 2020 4056-4069*  
**Yang, J.,** *see* Paudel, A., *TSG Nov. 2020 4727-4737*  
**Yang, L.,** Xu, Y., Sun, H., and Zhao, X., Two-Stage Convexification-Based Optimal Electricity-Gas Flow; *TSG March 2020 1465-1475*

- Yang, L.**, Xu, Y., and Sun, H., A Dynamic Linearization and Convex Relaxation-Based Approach for a Natural Gas Optimal Operation Problem; *TSG March 2020 1802-1804*
- Yang, L.**, see Liu, S., *TSG March 2020 1630-1643*
- Yang, P.**, Yu, M., Wu, Q., Hatziaargyriou, N., Xia, Y., and Wei, W., Decentralized Bidirectional Voltage Supporting Control for Multi-Mode Hybrid AC/DC Microgrid; *TSG May 2020 2615-2626*
- Yang, Q.**, see Fan, B., *TSG Jan. 2020 577-589*
- Yang, Q.**, see Guo, Z., *TSG March 2020 1136-1146*
- Yang, Q.**, see Sun, J., *TSG July 2020 3083-3094*
- Yang, Q.**, Wang, G., Sadeghi, A., Giannakis, G.B., and Sun, J., Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning; *TSG May 2020 2313-2323*
- Yang, R.**, see Donti, P.L., *TSG May 2020 2520-2530*
- Yang, T.**, Zhang, Y., Li, W., and Zomaya, A.Y., Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory; *TSG Sept. 2020 4427-4439*
- Yang, T.**, see Li, F., *TSG Sept. 2020 3827-3836*
- Yang, X.**, Zhang, J., Xie, X., Xiao, X., Gao, B., and Wang, Y., Interpolated DFT-Based Identification of Sub-Synchronous Oscillation Parameters Using Synchrophasor Data; *TSG May 2020 2662-2675*
- Yang, Y.**, Yang, Z., Yu, J., Zhang, B., Zhang, Y., and Yu, H., Fast Calculation of Probabilistic Power Flow: A Model-Based Deep Learning Approach; *TSG May 2020 2235-2244*
- Yang, Y.**, see Xing, L., *TSG May 2020 2487-2497*
- Yang, Y.**, see Bao, M., *TSG Sept. 2020 4090-4104*
- Yang, Z.**, see Guo, Z., *TSG March 2020 1136-1146*
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- Yao, H.**, see Xiang, Y., *TSG March 2020 1809-1811*
- Yao, S.**, see Zhang, H., *TSG March 2020 1044-1054*
- Yao, S.**, Wang, P., Liu, X., Zhang, H., and Zhao, T., Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration; *TSG March 2020 1030-1043*
- Yao, W.**, You, S., Wang, W., Deng, X., Li, Y., Zhan, L., and Liu, Y., A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit; *TSG Jan. 2020 895-904*
- Yao, W.**, see Wang, W., *TSG July 2020 3593-3605*
- Yao, W.**, see Qiu, W., *TSG July 2020 3457-3468*
- Yao, W.**, see Gan, W., *TSG Sept. 2020 4005-4016*
- Yao, W.**, see Liu, S., *TSG Sept. 2020 4565-4568*
- Yazdaninejad, M.**, Amjadi, N., and Dehghan, S., VPP Self-Scheduling Strategy Using Multi-Horizon IGD, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach; *TSG July 2020 3632-3645*
- Ye, F.**, and Bose, A., Multiple Communication Topologies for PMU-Based Applications: Introduction, Analysis and Simulation; *TSG Nov. 2020 5051-5061*
- Ye, H.**, see Ge, Y., *TSG Nov. 2020 4883-4890*
- Ye, J.**, see Wang, S., *TSG Nov. 2020 4916-4927*
- Ye, Y.**, Qiu, D., Sun, M., Papadaskalopoulos, D., and Strbac, G., Deep Reinforcement Learning for Strategic Bidding in Electricity Markets; *TSG March 2020 1343-1355*
- Ye, Y.**, Qiu, D., Wu, X., Strbac, G., and Ward, J., Model-Free Real-Time Autonomous Control for a Residential Multi-Energy System Using Deep Reinforcement Learning; *TSG July 2020 3068-3082*
- Yi, J.**, see Liu, X., *TSG July 2020 2816-2831*
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- Yu, Z.**, see Hashmy, Y., *TSG Nov. 2020 5072-5083*
- Yuan, C.**, see Dai, R., *TSG May 2020 1845-1853*
- Yuan, C.**, Zhou, Y., Liu, G., Dai, R., Lu, Y., and Wang, Z., Graph Computing-Based WLS Fast Decoupled State Estimation; *TSG May 2020 2440-2451*
- Yuan, H.**, see Huang, L., *TSG Jan. 2020 501-516*
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- Yuan, Y.**, see Zhou, W., *TSG Jan. 2020 832-845*
- Yuan, Y.**, see Bu, F., *TSG Nov. 2020 5407-5417*
- Yuan, Y.**, Dehghanpour, K., Bu, F., and Wang, Z., Outage Detection in Partially Observable Distribution Systems Using Smart Meters and Generative Adversarial Networks; *TSG Nov. 2020 5418-5430*
- Yuen, C.**, see Tushar, W., *TSG March 2020 1407-1418*
- Yuen, C.**, see Tushar, W., *TSG July 2020 3185-3200*

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On the Round-Trip Efficiency of an HVAC-Based Virtual Battery. *Raman, N.S.*, +, *TSG Jan. 2020 403-410*

Optimal Combination of Frequency Control and Peak Shaving With Battery Storage Systems. *Engels, J.*, +, *TSG July 2020 3270-3279*

Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N.*, +, *TSG March 2020 1771-1780*

Optimum Operation of Battery Storage System in Frequency Containment Reserves Markets. *Hasanpor Divshali, P.*, +, *TSG Nov. 2020 4906-4915*

Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*

Using a Supercapacitor to Mitigate Battery Microcycles Due to Wind Shear and Tower Shadow Effects in Wind-Diesel Microgrids. *Mohammadi, E.*, +, *TSG Sept. 2020 3677-3689*

**Bayes methods**

A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data. *Power, T.*, +, *TSG May 2020 2511-2519*

A Sponsor Incentive Attack Scheme for Feeder Automation Systems. *Dai, Q.*, +, *TSG March 2020 1440-1452*



Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models. *Kaselimi, M.*, +, *TSG July 2020 3054-3067*

Data-Driven Probabilistic Optimal Power Flow With Nonparametric Bayesian Modeling and Inference. *Sun, W.*, +, *TSG March 2020 1077-1090*

Flexible Machine Learning-Based Cyberattack Detection Using Spatio-temporal Patterns for Distribution Systems. *Cui, M.*, +, *TSG March 2020 1805-1808*

Robust Recovery of PMU Signals With Outlier Characterization and Stochastic Subspace Selection. *Chatterjee, K.*, +, *TSG July 2020 3346-3358*

Sparse Voltage Measurement-Based Fault Location Using Intelligent Electronic Devices. *Jia, K.*, +, *TSG Jan. 2020 48-60*

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UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability. *Kosen, I.*, +, *TSG Jan. 2020 739-748*

#### Blind source separation

Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*

#### Boilers

An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*

#### Budgeting

Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*

Power Management in Active Distribution Systems Penetrated by Photovoltaic Inverters: A Data-Driven Robust Approach. *Mancilla-David, F.*, +, *TSG May 2020 2271-2280*

Stochastic Geometry-Based Model for Dynamic Allocation of Metering Equipment in Spatio-Temporal Expanding Power Grids. *Atat, R.*, +, *TSG May 2020 2080-2091*

#### Building integrated photovoltaics

A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data. *Power, T.*, +, *TSG May 2020 2511-2519*

Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N.*, +, *TSG March 2020 1771-1780*

#### Building management systems

A Joint Electrical and Thermodynamic Approach to HVAC Load Control. *Jazaeri, J.*, +, *TSG Jan. 2020 15-25*

A New and Fair Peer-to-Peer Energy Sharing Framework for Energy Buildings. *Cui, S.*, +, *TSG Sept. 2020 3817-3826*

A Supervised-Learning-Based Strategy for Optimal Demand Response of an HVAC System in a Multi-Zone Office Building. *Kim, Y.*, *TSG Sept. 2020 4212-4226*

Affinely Adjustable Robust ADMM for Residential DER Coordination in Distribution Networks. *Atarha, A.*, +, *TSG March 2020 1620-1629*

Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y.*, +, *TSG Nov. 2020 4883-4890*

Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*

Deep Learning-Based Real-Time Building Occupancy Detection Using AMI Data. *Feng, C.*, +, *TSG Sept. 2020 4490-4501*

Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*

Linearized Price-Responsive HVAC Controller for Optimal Scheduling of Smart Building Loads. *Ostadijafari, M.*, +, *TSG July 2020 3131-3145*

Modelling and Control of Ensembles of Variable-Speed Air Conditioning Loads for Demand Response. *Mahdavi, N.*, +, *TSG Sept. 2020 4249-4260*

Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. *Luo, F.*, +, *TSG Jan. 2020 4-14*

Virtual Inertia From Smart Loads. *Chen, T.*, +, *TSG Sept. 2020 4311-4320*

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A Joint Electrical and Thermodynamic Approach to HVAC Load Control. *Jazaeri, J.*, +, *TSG Jan. 2020 15-25*

## C

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A High-Accuracy Phasor Estimation Algorithm for PMU Calibration and Its Hardware Implementation. *Xu, S.*, +, *TSG July 2020 3372-3383*

The White Rabbit Time Synchronization Protocol for Synchrophasor Networks. *Derviskadic, A.*, +, *TSG Jan. 2020 726-738*

Two-Stage WECC Composite Load Modeling: A Double Deep Q-Learning Networks Approach. *Wang, X.*, +, *TSG Sept. 2020 4331-4344*

#### Cascade control

A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*

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Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid. *Kong, P.*, *TSG May 2020 2417-2426*

#### Centralized control

Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees. *Mohiuddin, S.M.*, +, *TSG May 2020 1956-1967*

#### Channel allocation

Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid. *Kong, P.*, *TSG May 2020 2417-2426*

#### Chaos

Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method. *Xu, Y.*, +, *TSG March 2020 1593-1603*

#### Circuit breakers

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Tracing Power With Circuit Theory. *Chen, Y.C.*, +, *TSG Jan. 2020 138-147*

#### Closed loop systems

Cloud-Edge Cooperative Model and Closed-Loop Control Strategy for the Price Response of Large-Scale Air Conditioners Considering Data Packet Dropouts. *Jiang, A.*, +, *TSG Sept. 2020 4201-4211*

Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*

Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*

Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control. *Velasquez, M.A.*, +, *TSG May 2020 1968-1979*

Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. *Chang, F.*, +, *TSG Nov. 2020 5273-5287*

Malicious Corruption Resilience in PMU Data and Wide-Area Damping Control. *Mahapatra, K.*, +, *TSG March 2020 958-967*

Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*

Voltage Regulation of DC-Microgrid With PV and Battery. *Sun, J.*, +, *TSG Nov. 2020 4662-4675*

#### Cloud computing

A Novel Fitted Rolling Horizon Control Approach for Real-Time Policy Making in Microgrid. *Das, A.*, +, *TSG July 2020 3535-3544*

Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids. *Wang, S.*, +, *TSG Sept. 2020 3774-3784*

Enabling Efficient and Privacy-Preserving Aggregation Communication and Function Query for Fog Computing-Based Smart Grid. *Liu, J.*, +, *TSG Jan. 2020 247-257*

On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. *Saad, A.*, +, *TSG Nov. 2020 5138-5150*

Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J.*, +, *TSG July 2020 3083-3094*

#### Coal-fired power stations

A Dynamic Linearization and Convex Relaxation-Based Approach for a Natural Gas Optimal Operation Problem. *Yang, L.*, +, *TSG March 2020 1802-1804*

**Cogeneration**

An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*

Robust Coordination of a Hybrid AC/DC Multi-Energy Ship Microgrid With Flexible Voyage and Thermal Loads. *Li, Z.*, +, *TSG July 2020 2782-2793*

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A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters. *Liu, X.*, +, *TSG Nov. 2020 5431-5441*

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Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation. *Li, J.*, +, *TSG Nov. 2020 4760-4772*

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Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseinipour, A.*, +, *TSG Sept. 2020 3737-3747*

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**Compressed air energy storage**

Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems. *Jabbari Ghadi, M.*, +, *TSG July 2020 2966-2979*

Operation of Distribution Network Considering Compressed Air Energy Storage Unit and Its Reactive Power Support Capability. *Guo, Z.*, +, *TSG July 2020 2954-2965*

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Sparse Voltage Measurement-Based Fault Location Using Intelligent Electronic Devices. *Jia, K.*, +, *TSG Jan. 2020 48-60*

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A Dynamic Linearization and Convex Relaxation-Based Approach for a Natural Gas Optimal Operation Problem. *Yang, L.*, +, *TSG March 2020 1802-1804*

Modelling and Control of Ensembles of Variable-Speed Air Conditioning Loads for Demand Response. *Mahdavi, N.*, +, *TSG Sept. 2020 4249-4260*

**Computational complexity**

Agent-Based Distributed Computing for Power System State Estimation. *Saxena, K.*, +, *TSG Nov. 2020 5193-5202*

Auditing on Smart-Grid With Dynamic Traffic Flows: An Algorithmic Approach. *Nguyen, L.N.*, +, *TSG May 2020 2293-2302*

Full Parallel Power Flow Solution: A GPU-CPU-Based Vectorization Parallelization and Sparse Techniques for Newton-Raphson Implementation. *Su, X.*, +, *TSG May 2020 1833-1844*

Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*

Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W.*, +, *TSG Sept. 2020 4105-4115*

Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*

Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. *Raman, G.*, +, *TSG July 2020 2805-2815*

Scalable and Robust State Estimation From Abundant But Untrusted Data. *Jin, M.*, +, *TSG May 2020 1880-1894*

Sensor Placement for Outage Identifiability in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG May 2020 1996-2013*

Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. *Safdarian, F.*, +, *TSG Sept. 2020 4544-4554*

**Computational geometry**

Data-Driven Wind Generation Admissibility Assessment of Integrated Electric-Heat Systems: A Dynamic Convex Hull-Based Approach. *Wang, C.*, +, *TSG Sept. 2020 4531-4543*

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Desynchronized Model Predictive Control for Large Populations of Fans in Server Racks of Datacenters. *Laparra, G.*, +, *TSG Jan. 2020 411-419*

Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J.*, +, *TSG July 2020 3083-3094*

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Exploiting the Vulnerability of Relative Data Alignment in Phasor Data Concentrators to Time Synchronization Attacks. *Moussa, B.*, +, *TSG May 2020 2541-2551*

Moving Target Defense Approach to Detecting Stuxnet-Like Attacks. *Tian, J.*, +, *TSG Jan. 2020 291-300*

Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*

**Computer simulation**

Design of a Seamless Grid-Connected Inverter for Microgrid Applications. *Lo, K.*, +, *TSG Jan. 2020 194-202*

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Bus Clustering for Distribution Grid Topology Identification. *Cavvaro, G.*, +, *TSG Sept. 2020 4080-4089*

Core-Selecting Mechanisms in Electricity Markets. *Karaca, O.*, +, *TSG May 2020 2604-2614*

Distributed Solution of Stochastic Volt/VAR Control in Radial Networks. *Nazir, F.U.*, +, *TSG Nov. 2020 5314-5324*

Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems. *Sayed, A.R.*, +, *TSG May 2020 2092-2105*

Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S.*, +, *TSG Nov. 2020 4818-4832*

Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid. *Kong, P.*, *TSG May 2020 2417-2426*

**Condition monitoring**

Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning. *Xiong, S.*, +, *TSG Nov. 2020 5239-5248*

Intelligent Damage Classification and Estimation in Power Distribution Poles Using Unmanned Aerial Vehicles and Convolutional Neural Networks. *Hosseini, M.M.*, +, *TSG July 2020 3325-3333*

Synchrophasor-Based Condition Monitoring of Instrument Transformers Using Clustering Approach. *Cui, B.*, +, *TSG May 2020 2688-2698*

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Distributed Periodic Event-Triggered Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. *Fan, B.*, +, *TSG Jan. 2020 577-589*

Double-Mode Energy Management for Multi-Energy System via Distributed Dynamic Event-Triggered Newton-Raphson Algorithm. *Li, Y.*, +, *TSG Nov. 2020 5339-5356*

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Detection of Defaulting Participants of Demand Response Based on Sparse Reconstruction. *Azuma, S.*, +, *TSG Jan. 2020 368-378*

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Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020 1171-1182*

Desynchronized Model Predictive Control for Large Populations of Fans in Server Racks of Datacenters. *Laparra, G.*, +, *TSG Jan. 2020 411-419*

Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*

Safe Off-Policy Deep Reinforcement Learning Algorithm for Volt-VAR Control in Power Distribution Systems. *Wang, W.*, +, *TSG July 2020 3008-3018*

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A Supervised-Learning-Based Strategy for Optimal Demand Response of an HVAC System in a Multi-Zone Office Building. *Kim, Y.*, *TSG Sept. 2020 4212-4226*

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$H_\infty$ -Control of Grid-Connected Converters: Design, Objectives and Decentralized Stability Certificates. *Huang, L.*, +, *TSG Sept. 2020 3805-3816*

Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

- Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*
- Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. *Jalali, M.*, +, *TSG March 2020 1759-1770*
- Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*
- Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*
- Distributed Periodic Event-Triggered Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. *Fan, B.*, +, *TSG Jan. 2020 577-589*
- Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*
- Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*
- Event Trigger Super Twisting Sliding Mode Control for DC Micro Grid With Matched/Unmatched Disturbance Observer. *Kumar, V.*, +, *TSG Sept. 2020 3837-3849*
- Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020 391-402*
- Flexibility Estimation and Control of Thermostatically Controlled Loads With Lock Time for Regulation Service. *Wang, P.*, +, *TSG July 2020 3221-3230*
- Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control. *Huang, L.*, +, *TSG Jan. 2020 501-516*
- Online PMU-Based Wide-Area Damping Control for Multiple Inter-Area Modes. *Zenelis, I.*, +, *TSG Nov. 2020 5451-5461*
- Optimal Control of DERs in ADN Under Spatial and Temporal Correlated Uncertainties. *Chen, X.*, +, *TSG March 2020 1216-1228*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*
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- Risk-Averse Model Predictive Control Design for Battery Energy Storage Systems. *Rosewater, D.*, +, *TSG May 2020 2014-2022*
- Voltage Regulation of DC-Microgrid With PV and Battery. *Sun, J.*, +, *TSG Nov. 2020 4662-4675*
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- A Scalable and Distributed Algorithm for Managing Residential Demand Response Programs Using Alternating Direction Method of Multipliers (ADMM). *Kou, X.*, +, *TSG Nov. 2020 4871-4882*
- An Energy Sharing Game With Generalized Demand Bidding: Model and Properties. *Chen, Y.*, +, *TSG May 2020 2055-2066*
- Bus Clustering for Distribution Grid Topology Identification. *Cavvaro, G.*, +, *TSG Sept. 2020 4080-4089*
- Chance-Constrained Optimization of Energy Storage Capacity for Microgrids. *Yahya Soltani, N.*, +, *TSG July 2020 2760-2770*
- Convex Relaxation of Grid-Connected Energy Storage System Models With Complementarity Constraints in DC OPF. *Garifi, K.*, +, *TSG Sept. 2020 4070-4079*
- Data-Driven Wind Generation Admissibility Assessment of Integrated Electric-Heat Systems: A Dynamic Convex Hull-Based Approach. *Wang, C.*, +, *TSG Sept. 2020 4531-4543*
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- Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Lv, S.*, +, *TSG May 2020 1854-1865*
- Optimal Voltage Reference for Droop-Based DERs in Distribution Systems. *Hong, T.*, +, *TSG May 2020 2357-2366*
- Power and Transport Nexus: Routing Electric Vehicles to Promote Renewable Power Integration. *Zhang, H.*, +, *TSG July 2020 3291-3301*
- Risk-Averse Model Predictive Control Design for Battery Energy Storage Systems. *Rosewater, D.*, +, *TSG May 2020 2014-2022*
- Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. *Ghorani, R.*, +, *TSG March 2020 1781-1791*
- Two-Stage Convexification-Based Optimal Electricity-Gas Flow. *Yang, L.*, +, *TSG March 2020 1465-1475*
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- A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. *Kong, W.*, +, *TSG Jan. 2020 148-160*
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- Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. *Lin, C.*, +, *TSG May 2020 2531-2540*

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Optimal Coordinated Operation of Interdependent Power and Water Distribution Systems. *Oikonomou, K.*, +, *TSG Nov. 2020 4784-4794*

Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. *Luo, F.*, +, *TSG Jan. 2020 4-14*

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A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs. *Yang, J.*, +, *TSG March 2020 1724-1736*

A Mid-Term DSO Market for Capacity Limits: How to Estimate Opportunity Costs of Aggregators?. *Ziras, C.*, +, *TSG Jan. 2020 334-345*

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Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Lv, S.*, +, *TSG May 2020 1854-1865*

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A Unified Approach for Reliability Assessment of Critical Infrastructures Using Graph Theory and Entropy. *Iranpour, M.*, +, *TSG Nov. 2020 5184-5192*

Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F.*, +, *TSG May 2020 2476-2486*

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Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*

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An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*

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A Novel Domestic Electric Water Heater Control Method. *Xiang, S.*, +, *TSG July 2020 3246-3256*

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A Survey on the Detection Algorithms for False Data Injection Attacks in Smart Grids. *Musleh, A.S.*, +, *TSG May 2020 2218-2234*

An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems. *Liu, W.*, +, *TSG Jan. 2020 541-554*

CP-TRAM: Cyber-Physical Transmission Resiliency Assessment Metric. *Tushar, .*, +, *TSG Nov. 2020 5114-5123*

Cyber Physical Security Analytics for Transactive Energy Systems. *Zhang, Y.*, +, *TSG March 2020 931-941*

Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F.*, +, *TSG May 2020 2476-2486*

Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*

Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*

Quantitative Assessment of Stochastic Property of Network-Induced Time Delay in Smart Substation Cyber Communications. *Zheng, A.*, +, *TSG May 2020 2407-2416*

Resilient Collaborative Distributed Energy Management System Framework for Cyber-Physical DC Microgrids. *Cheng, Z.*, +, *TSG Nov. 2020 4637-4649*

## D

#### Damping

A Practical Secondary Frequency Control Strategy for Virtual Synchronous Generator. *Jiang, K.*, +, *TSG May 2020 2734-2736*

A Self-Adaptive Contractive Algorithm for Enhanced Dynamic Phasor Estimation. *Messina, F.*, +, *TSG May 2020 2367-2380*

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

Deep Reinforcement Learning-Based Approach for Proportional Resonance Power System Stabilizer to Prevent Ultra-Low-Frequency Oscillations. *Zhang, G.*, +, *TSG Nov. 2020 5260-5272*

Distorted Stability Space and Instability Triggering Mechanism of EV Aggregation Delays in the Secondary Frequency Regulation of Electrical Grid-Electric Vehicle System. *Dong, C.*, +, *TSG Nov. 2020 5084-5098*

Interpolated DFT-Based Identification of Sub-Synchronous Oscillation Parameters Using Synchrophasor Data. *Yang, X.*, +, *TSG May 2020 2662-2675*

Online PMU-Based Wide-Area Damping Control for Multiple Inter-Area Modes. *Zenelis, I.*, +, *TSG Nov. 2020 5451-5461*

Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. *Raman, G.*, +, *TSG July 2020 2805-2815*

Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseinipour, A.*, +, *TSG Sept. 2020 3737-3747*

Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*

Wide-Area Robust Sliding Mode Controller for Power Systems With False Data Injection Attacks. *Li, M.*, +, *TSG March 2020 922-930*

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#### Data analysis

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A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*

A Robust Statistical Approach to Distributed Power System State Estimation With Bad Data. *Ho, C.H.*, +, *TSG Jan. 2020 517-527*

Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. *Razavi-Far, R.*, +, *TSG March 2020 1453-1464*

Data-Based Resilience Enhancement Strategies for Electric-Gas Systems Against Sequential Extreme Weather Events. *Liu, R.*, +, *TSG Nov. 2020 5383-5395*

Multi-Task Logistic Low-Ranked Dirty Model for Fault Detection in Power Distribution System. *Gilanifar, M.*, +, *TSG Jan. 2020 786-796*

Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. *Dobbe, R.*, +, *TSG March 2020 1296-1306*

UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability. *Kosen, I.*, +, *TSG Jan. 2020 739-748*

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Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. *Razavi-Far, R.*, +, *TSG March 2020 1453-1464*

Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*

#### Data integration

A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. *Zhao, H.*, +, *TSG May 2020 2303-2312*

#### Data mining

Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. *Razavi-Far, R.*, +, *TSG March 2020 1453-1464*

Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*

Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*

Synchrophasor Missing Data Recovery via Data-Driven Filtering. *Konstantinopoulos, S.*, +, *TSG Sept. 2020 4321-4330*

#### Data privacy

A Learning-Based Power Management Method for Networked Microgrids Under Incomplete Information. *Zhang, Q.*, +, *TSG March 2020 1193-1204*

Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y.*, +, *TSG Nov. 2020 4883-4890*

Decentralized Robust State Estimation of Active Distribution Grids Incorporating Microgrids Based on PMU Measurements. *Lin, C.*, +, *TSG Jan. 2020 810-820*

Differential Privacy for Power Grid Obfuscation. *Fioretto, F.*, +, *TSG March 2020 1356-1366*

Enabling Efficient and Privacy-Preserving Aggregation Communication and Function Query for Fog Computing-Based Smart Grid. *Liu, J.*, +, *TSG Jan. 2020 247-257*

Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*

Real-Time Privacy-Preserving Data Release for Smart Meters. *Shateri, M.*, +, *TSG Nov. 2020 5174-5183*

Truthful, Practical and Privacy-Aware Demand Response in the Smart Grid via a Distributed and Optimal Mechanism. *Tsaousoglou, G.*, +, *TSG July 2020 3119-3130*

Validation of Synthetic U.S. Electric Power Distribution System Data Sets. *Krishnan, V.*, +, *TSG Sept. 2020 4477-4489*

#### Data visualization

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#### DC distribution systems

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Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020 391-402*

High Frequency Transient Sparse Measurement-Based Fault Location for Complex DC Distribution Networks. *Jia, K.*, +, *TSG Jan. 2020 312-322*

Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems. *Jia, K.*, +, *TSG Jan. 2020 323-333*

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#### DC-DC power converters

A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*

High Frequency Transient Sparse Measurement-Based Fault Location for Complex DC Distribution Networks. *Jia, K.*, +, *TSG Jan. 2020 312-322*

Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. *Chang, F.*, +, *TSG Nov. 2020 5273-5287*

Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*

#### Decentralized control

$H_\infty$ -Control of Grid-Connected Converters: Design, Objectives and Decentralized Stability Certificates. *Huang, L.*, +, *TSG Sept. 2020 3805-3816*

Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y.*, +, *TSG Nov. 2020 4883-4890*

Autonomous Coordinated Control Scheme for Cooperative Asymmetric Low-Voltage Ride-Through and Grid Support in Active Distribution Networks With Multiple DG Units. *Shabestary, M.M.*, +, *TSG May 2020 2125-2139*

Deterministic Dynamic State Estimation-Based Optimal LFC for Interconnected Power Systems Using Unknown Input Observer. *Haes Alhelou, H.*, +, *TSG March 2020 1582-1592*

Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020 391-402*

Non-Linear Primary Control Mapping for Droop-Like Behavior of Microgrid Systems. *Legry, M.*, +, *TSG Nov. 2020 4604-4613*

Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. *Dobbe, R.*, +, *TSG March 2020 1296-1306*

#### Decision making

A Hybrid Stochastic-Interval Operation Strategy for Multi-Energy Microgrids. *Jiang, Y.*, +, *TSG Jan. 2020 440-456*

A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*

A Novel Retrospect-Inspired Regime for Microgrid Real-Time Energy Scheduling With Heterogeneous Sources. *Jia, Y.*, +, *TSG Nov. 2020 4614-4625*

A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidzadeh-Kermani, H.*, +, *TSG July 2020 3171-3184*

An Efficient Robust Approach to the Day-Ahead Operation of an Aggregator of Electric Vehicles. *Porrás, A.*, +, *TSG Nov. 2020 4960-4970*

Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids. *Wang, S.*, +, *TSG Sept. 2020 3774-3784*

CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency. *Venkataramanan, V.*, +, *TSG March 2020 1055-1065*

Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F.*, +, *TSG May 2020 2476-2486*

Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation. *Jiang, Y.*, *TSG Jan. 2020 129-137*

Data-Driven Wind Generation Admissibility Assessment of Integrated Electric-Heat Systems: A Dynamic Convex Hull-Based Approach. *Wang, C.*, +, *TSG Sept. 2020 4531-4543*

Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems. *Sayed, A.R.*, +, *TSG May 2020 2092-2105*

Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. *Salimi, M.*, +, *TSG Sept. 2020 4390-4402*

Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. *Wang, S.*, +, *TSG May 2020 2709-2721*

Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG May 2020 2498-2510*

Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*

Privacy-Preserving Collaborative Operation of Networked Microgrids With the Local Utility Grid Based on Enhanced Benders Decomposition. *Li, Z.*, +, *TSG May 2020 2638-2651*

Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making. *Junlakarn, S.*, +, *TSG Sept. 2020 3970-3981*

VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. *Yazdaninejad, M.*, +, *TSG July 2020 3632-3645*

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Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty. *Nikoobakht, A.*, +, *TSG July 2020 3156-3170*

Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. *Salimi, M.*, +, *TSG Sept. 2020 4390-4402*

MDP-Based Distribution Network Reconfiguration With Renewable Distributed Generation: Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG July 2020 3620-3631*

VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. *Yazdaninejad, M.*, +, *TSG July 2020 3632-3645*

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Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*

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Accurate Consensus-Based Distributed Averaging With Variable Time Delay in Support of Distributed Secondary Control Algorithms. *Du, Y.*, +, *TSG July 2020 2918-2928*

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*

Distorted Stability Space and Instability Triggering Mechanism of EV Aggregation Delays in the Secondary Frequency Regulation of Electrical Grid-Electric Vehicle System. *Dong, C.*, +, *TSG Nov. 2020 5084-5098*

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

Distributed Optimal Control of Energy Storages in a DC Microgrid With Communication Delay. *Shi, M.*, +, *TSG May 2020 2033-2042*

Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*

Distributed Secondary Voltage Control in Islanded Microgrids With Consideration of Communication Network and Time Delays. *Lou, G.*, +, *TSG Sept. 2020 3702-3715*

Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*

Quantitative Assessment of Stochastic Property of Network-Induced Time Delay in Smart Substation Cyber Communications. *Zheng, A.*, +, *TSG May 2020 2407-2416*

Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*

Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*

**Demand side management**

A Fast Algorithm for Optimal Power Scheduling of Large-Scale Appliances With Temporally Spatially Coupled Constraints. *Guo, Z.*, +, *TSG March 2020 1136-1146*

A Hierarchical Control Framework With a Novel Bidding Scheme for Residential Community Energy Optimization. *Paudyal, P.*, +, *TSG Jan. 2020 710-719*

A Joint Electrical and Thermodynamic Approach to HVAC Load Control. *Jazaeri, J.*, +, *TSG Jan. 2020 15-25*

A Market Framework for Decentralized Congestion Management in Smart Distribution Grids Considering Collaboration Among Electric Vehicle Aggregators. *Asrari, A.*, +, *TSG March 2020 1147-1158*

A Market Mechanism for Virtual Inertia. *Poolla, B.K.*, +, *TSG July 2020 3570-3579*

A Minimal Incentive-Based Demand Response Program With Self Reported Baseline Mechanism. *Muthirayan, D.*, +, *TSG May 2020 2195-2207*

A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*

A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidizadeh-Kermani, H.*, +, *TSG July 2020 3171-3184*

A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S.*, +, *TSG May 2020 2140-2150*

A Scalable and Distributed Algorithm for Managing Residential Demand Response Programs Using Alternating Direction Method of Multipliers (ADMM). *Kou, X.*, +, *TSG Nov. 2020 4871-4882*

A Supervised-Learning-Based Strategy for Optimal Demand Response of an HVAC System in a Multi-Zone Office Building. *Kim, Y.*, *TSG Sept. 2020 4212-4226*

Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y.*, +, *TSG Nov. 2020 4883-4890*

Cloud-Edge Cooperative Model and Closed-Loop Control Strategy for the Price Response of Large-Scale Air Conditioners Considering Data Packet Dropouts. *Jiang, A.*, +, *TSG Sept. 2020 4201-4211*

Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H.*, +, *TSG May 2020 2427-2439*

Constrained Thompson Sampling for Real-Time Electricity Pricing With Grid Reliability Constraints. *Tucker, N.*, +, *TSG Nov. 2020 4971-4983*

Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty. *Nikoobakht, A.*, +, *TSG July 2020 3156-3170*

Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*

Deep Reinforcement Learning Method for Demand Response Management of Interruptible Load. *Wang, B.*, +, *TSG July 2020 3146-3155*

Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*

Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. *Sadeghianpourhamami, N.*, +, *TSG Jan. 2020 203-214*

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Energy Peer-to-Peer Trading in Virtual Microgrids in Smart Grids: A Game-Theoretic Approach. *Anoh, K.*, +, *TSG March 2020 1264-1275*

Estimating the Profile of Incentive-Based Demand Response (IBDR) by Integrating Technical Models and Social-Behavioral Factors. *Shi, Q.*, +, *TSG Jan. 2020 171-183*

Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*

Incentive-Based Integrated Demand Response for Multiple Energy Carriers Considering Behavioral Coupling Effect of Consumers. *Zheng, S.*, +, *TSG July 2020 3231-3245*

Integrating P2P Energy Trading With Probabilistic Distribution Locational Marginal Pricing. *Morstyn, T.*, +, *TSG July 2020 3095-3106*

Mechanism Design for Demand Response Programs. *Muthirayan, D.*, +, *TSG Jan. 2020 61-73*

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Online Learning for Network Constrained Demand Response Pricing in Distribution Systems. *Mieth, R.*, +, *TSG May 2020 2563-2575*

Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. *Luo, F.*, +, *TSG Jan. 2020 4-14*

Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.I.*, +, *TSG March 2020 1239-1252*

Peer-to-Peer Trading in Electricity Networks: An Overview. *Tushar, W.*, +, *TSG July 2020 3185-3200*

Public Plug-in Electric Vehicles + Grid Data: Is a New Cyberattack Vector Viable?. *Acharya, S.*, +, *TSG Nov. 2020 5099-5113*

Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid. *Kong, P.*, *TSG May 2020 2417-2426*

Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. *Ghorani, R.*, +, *TSG March 2020 1781-1791*

Robust Coordination Expansion Planning for Active Distribution Network in Deregulated Retail Power Market. *Huang, C.*, +, *TSG March 2020 1476-1488*

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Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseinipour, A.*, +, *TSG Sept. 2020 3737-3747*

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Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J.*, +, *TSG Nov. 2020 4938-4948*

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Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids. *Wang, S.*, +, *TSG Sept. 2020 3774-3784*

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A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters. *Liu, X.*, +, *TSG Nov. 2020 5431-5441*

A Stochastic Multi-Commodity Logistic Model for Disaster Preparation in Distribution Systems. *Arif, A.*, +, *TSG Jan. 2020 565-576*

A Unified Approach for Reliability Assessment of Critical Infrastructures Using Graph Theory and Entropy. *Iranpour, M.*, +, *TSG Nov. 2020 5184-5192*

CP-TRAM: Cyber-Physical Transmission Resiliency Assessment Metric. *Tushar, .*, +, *TSG Nov. 2020 5114-5123*

Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*

Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. *Zhang, G.*, +, *TSG Nov. 2020 4847-4859*

Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*

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Interpolated DFT-Based Identification of Sub-Synchronous Oscillation Parameters Using Synchrophasor Data. *Yang, X.*, +, *TSG May 2020 2662-2675*

Using a Supercapacitor to Mitigate Battery Microcycles Due to Wind Shear and Tower Shadow Effects in Wind-Diesel Microgrids. *Mohammadi, E.*, +, *TSG Sept. 2020 3677-3689*

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Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*

Distributed Periodic Event-Triggered Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. *Fan, B.*, +, *TSG Jan. 2020 577-589*

Double-Mode Energy Management for Multi-Energy System via Distributed Dynamic Event-Triggered Newton-Raphson Algorithm. *Li, Y.*, +, *TSG Nov. 2020 5339-5356*

#### Distributed algorithms

A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*

A Scalable and Distributed Algorithm for Managing Residential Demand Response Programs Using Alternating Direction Method of Multipliers (ADMM). *Kou, X.*, +, *TSG Nov. 2020 4871-4882*

Affinely Adjustable Robust ADMM for Residential DER Coordination in Distribution Networks. *Attarha, A.*, +, *TSG March 2020 1620-1629*

Agent-Based Distributed Computing for Power System State Estimation. *Saxena, K.*, +, *TSG Nov. 2020 5193-5202*

Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation. *Li, J.*, +, *TSG Nov. 2020 4760-4772*

Distributed Solution of Stochastic Volt/VAR Control in Radial Networks. *Nazir, F.U.*, +, *TSG Nov. 2020 5314-5324*

#### Distributed control

A Cyber-Attack Resilient Distributed Control Strategy in Islanded Microgrids. *Zhou, Q.*, +, *TSG Sept. 2020 3690-3701*

A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. *Zhou, J.*, +, *TSG Sept. 2020 3716-3725*

A Prediction-Based Hierarchical Delay Compensation (PHDC) Technique Enhanced by Increment Autoregression Prediction for Wide-Area Control Systems. *Zhang, F.*, +, *TSG March 2020 1253-1263*

A Two-Layer Distributed Cooperative Control Method for Islanded Networked Microgrid Systems. *Wu, X.*, +, *TSG March 2020 942-957*

A Zero-Free Event-Triggered Secondary Control for AC Microgrids. *Abdolemaleki, B.*, +, *TSG May 2020 1905-1916*

Accurate Consensus-Based Distributed Averaging With Variable Time Delay in Support of Distributed Secondary Control Algorithms. *Du, Y.*, +, *TSG July 2020 2918-2928*

Aggregate Power Flexibility in Unbalanced Distribution Systems. *Chen, X.*, +, *TSG Jan. 2020 258-269*

Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*

Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020 37-47*

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

Distributed Control Strategy Based on a Consensus Algorithm and on the Conservative Power Theory for Imbalance and Harmonic Sharing in 4-Wire Microgrids. *Burgos-Mellado, C.*, +, *TSG March 2020 1604-1619*

Distributed Optimal Control of Energy Storages in a DC Microgrid With Communication Delay. *Shi, M.*, +, *TSG May 2020 2033-2042*

Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*

Distributed Predictive Control for Frequency and Voltage Regulation in Microgrids. *Gomez, J.S.*, +, *TSG March 2020 1319-1329*

Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults. *Dehkordi, N.M.*, +, *TSG May 2020 2699-2708*

Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*

Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. *Xing, L.*, +, *TSG May 2020 2487-2497*

Distributed Secondary Voltage Control in Islanded Microgrids With Consideration of Communication Network and Time Delays. *Lou, G.*, +, *TSG Sept. 2020 3702-3715*

- Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees. *Mohiuddin, S.M.*, +, *TSG May 2020 1956-1967*
- Event-Triggered Updating Method in Centralized and Distributed Secondary Controls for Islanded Microgrid Restoration. *Qian, T.*, +, *TSG March 2020 1387-1395*
- On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. *Saad, A.*, +, *TSG Nov. 2020 5138-5150*
- Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*
- Peer-to-Peer Control for Networked Microgrids: Multi-Layer and Multi-Agent Architecture Design. *Wang, Y.*, +, *TSG Nov. 2020 4688-4699*
- Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*
- Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication. *Lai, J.*, +, *TSG July 2020 2746-2759*
- Distributed databases**
- An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*
- Distributed power generation**
- A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. *He, L.*, +, *TSG March 2020 1737-1747*
- A Cyber-Attack Resilient Distributed Control Strategy in Islanded Microgrids. *Zhou, Q.*, +, *TSG Sept. 2020 3690-3701*
- A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs. *Yang, J.*, +, *TSG March 2020 1724-1736*
- A Distributed and Robust Energy Management System for Networked Hybrid AC/DC Microgrids. *Xu, Q.*, +, *TSG July 2020 3496-3508*
- A Distributed Task Allocation Based on a Winner-Take-All Approach for Multiple Energy Storage Systems Coordination in a Microgrid. *Xu, Y.*, +, *TSG Jan. 2020 686-695*
- A Fast Adequacy Analysis for Radial Distribution Networks Considering Reconfiguration and DGs. *Arefi, A.*, +, *TSG Sept. 2020 3896-3909*
- A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. *Yao, W.*, +, *TSG Jan. 2020 895-904*
- A Full Decentralized Multi-Agent Service Restoration for Distribution Network With DGs. *Li, W.*, +, *TSG March 2020 1100-1111*
- A Graphical Measure of Aggregate Flexibility for Energy-Constrained Distributed Resources. *Evans, M.P.*, +, *TSG Jan. 2020 106-117*
- A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. *Zhao, H.*, +, *TSG May 2020 2303-2312*
- A Hybrid Stochastic-Interval Operation Strategy for Multi-Energy Microgrids. *Jiang, Y.*, +, *TSG Jan. 2020 440-456*
- A Learning-Based Power Management Method for Networked Microgrids Under Incomplete Information. *Zhang, Q.*, +, *TSG March 2020 1193-1204*
- A Market Framework for Decentralized Congestion Management in Smart Distribution Grids Considering Collaboration Among Electric Vehicle Aggregators. *Asrari, A.*, +, *TSG March 2020 1147-1158*
- A Methodological Framework to support Load Forecast Error Assessment in Local Energy Markets. *Schreck, S.*, +, *TSG July 2020 3212-3220*
- A Mid-Term DSO Market for Capacity Limits: How to Estimate Opportunity Costs of Aggregators?. *Ziras, C.*, +, *TSG Jan. 2020 334-345*
- A Mixed Integer Conic Model for Distribution Expansion Planning: Mathuristic Approach. *Home-Ortiz, J.M.*, +, *TSG Sept. 2020 3932-3943*
- A New and Fair Peer-to-Peer Energy Sharing Framework for Energy Buildings. *Cui, S.*, +, *TSG Sept. 2020 3817-3826*
- A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data. *Power, T.*, +, *TSG May 2020 2511-2519*
- A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances. *Razi, R.*, +, *TSG Sept. 2020 3795-3804*
- A Novel Fitted Rolling Horizon Control Approach for Real-Time Policy Making in Microgrid. *Das, A.*, +, *TSG July 2020 3535-3544*
- A Novel Retrospect-Inspired Regime for Microgrid Real-Time Energy Scheduling With Heterogeneous Sources. *Jia, Y.*, +, *TSG Nov. 2020 4614-4625*
- A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. *Zhou, J.*, +, *TSG Sept. 2020 3716-3725*
- A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. *Yang, J.*, +, *TSG Sept. 2020 4056-4069*
- A Real-Time Framework for Matching Prosumers With Minimum Risk in the Cluster of Microgrids. *Ryu, Y.*, +, *TSG July 2020 2832-2844*
- A Risk-Averse Conic Model for Networked Microgrids Planning With Reconfiguration and Reorganizations. *Cao, X.*, +, *TSG Jan. 2020 696-709*
- A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S.*, +, *TSG May 2020 2140-2150*
- A Robust Statistical Approach to Distributed Power System State Estimation With Bad Data. *Ho, C.H.*, +, *TSG Jan. 2020 517-527*
- A Two-Layer Distributed Cooperative Control Method for Islanded Networked Microgrid Systems. *Wu, X.*, +, *TSG March 2020 942-957*
- A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M.*, +, *TSG May 2020 2115-2124*
- A Zeno-Free Event-Triggered Secondary Control for AC Microgrids. *Abdolemaleki, B.*, +, *TSG May 2020 1905-1916*
- Accurate Consensus-Based Distributed Averaging With Variable Time Delay in Support of Distributed Secondary Control Algorithms. *Du, Y.*, +, *TSG July 2020 2918-2928*
- Active Distribution Grids Offering Ancillary Services in Islanded and Grid-Connected Mode. *Karagiannopoulos, S.*, +, *TSG Jan. 2020 623-633*
- Affinely Adjustable Robust ADMM for Residential DER Coordination in Distribution Networks. *Attarha, A.*, +, *TSG March 2020 1620-1629*
- Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y.*, +, *TSG Nov. 2020 4883-4890*
- Aggregate Power Flexibility in Unbalanced Distribution Systems. *Chen, X.*, +, *TSG Jan. 2020 258-269*
- Aggregation of Multi-Scale Experts for Bottom-Up Load Forecasting. *Goehry, B.*, +, *TSG May 2020 1895-1904*
- An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*
- An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems. *Liu, W.*, +, *TSG Jan. 2020 541-554*
- An Interconnected Microgrids-Based Transactive Energy System With Multiple Electric Springs. *Liang, L.*, +, *TSG Jan. 2020 184-193*
- Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*
- Autonomous Coordinated Control Scheme for Cooperative Asymmetric Low-Voltage Ride-Through and Grid Support in Active Distribution Networks With Multiple DG Units. *Shabestary, M.M.*, +, *TSG May 2020 2125-2139*
- Building Large-Scale U.S. Synthetic Electric Distribution System Models. *Mateo, C.*, +, *TSG Nov. 2020 5301-5313*
- Bus Clustering for Distribution Grid Topology Identification. *Cavvaro, G.*, +, *TSG Sept. 2020 4080-4089*
- Centralised and Distributed Optimization for Aggregated Flexibility Services Provision. *Olivella-Rosell, P.*, +, *TSG July 2020 3257-3269*
- Chance-Constrained Optimization of Energy Storage Capacity for Microgrids. *Yahya Soltani, N.*, +, *TSG July 2020 2760-2770*
- Characterizing the Reserve Provision Capability Area of Active Distribution Networks: A Linear Robust Optimization Method. *Kalantar-Neyestanaki, M.*, +, *TSG May 2020 2464-2475*
- Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids. *Wang, S.*, +, *TSG Sept. 2020 3774-3784*
- Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. *Afshari, A.*, +, *TSG May 2020 1866-1879*
- Coordinated Market Design for Peer-to-Peer Energy Trade and Ancillary Services in Distribution Grids. *Zhang, K.*, +, *TSG July 2020 2929-2941*
- CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency. *Venkataramanan, V.*, +, *TSG March 2020 1055-1065*



- D-PMU Based Secondary Frequency Control for Islanded Microgrids. *Rodrigues, Y.R.*, +, *TSG Jan. 2020 857-872*
- Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*
- Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation. *Jiang, Y.*, *TSG Jan. 2020 129-137*
- Day-Ahead Energy Management for Pelagic Island Microgrid Groups Considering Non-Integer-Hour Energy Transmission. *Sui, Q.*, +, *TSG Nov. 2020 5249-5259*
- Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. *Lin, C.*, +, *TSG May 2020 2531-2540*
- Decentralized and Per-Unit Primary Control Framework for DC Distribution Networks With Multiple Voltage Levels. *Wang, X.*, +, *TSG Sept. 2020 3993-4004*
- Decentralized Bidirectional Voltage Supporting Control for Multi-Mode Hybrid AC/DC Microgrid. *Yang, P.*, +, *TSG May 2020 2615-2626*
- Decentralized Cooperative Optimal Power Flow of Multiple Interconnected Microgrids via Negotiation. *Li, F.*, +, *TSG Sept. 2020 3827-3836*
- Decentralized Robust State Estimation of Active Distribution Grids Incorporating Microgrids Based on PMU Measurements. *Lin, C.*, +, *TSG Jan. 2020 810-820*
- Deep Learning Detection of Electricity Theft Cyber-Attacks in Renewable Distributed Generation. *Ismail, M.*, +, *TSG July 2020 3428-3437*
- Deliverable Energy Flexibility Scheduling for Active Distribution Networks. *Oikonomou, K.*, +, *TSG Jan. 2020 655-664*
- Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control. *Shabshab, S.C.*, +, *TSG May 2020 1917-1927*
- Design of a Seamless Grid-Connected Inverter for Microgrid Applications. *Lo, K.*, +, *TSG Jan. 2020 194-202*
- Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. *Jalali, M.*, +, *TSG March 2020 1759-1770*
- Detection and Mitigation of Data Manipulation Attacks in AC Microgrids. *Mustafa, A.*, +, *TSG May 2020 2588-2603*
- Development of New Identification Method for Global Group of Controls for Online Coordinated Voltage Control in Active Distribution Networks. *Alzaareer, K.*, +, *TSG Sept. 2020 3921-3931*
- Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*
- Distributed Cluster Cooperation for Multiple DC MGs Over Two-Layer Switching Topologies. *Lu, X.*, +, *TSG Nov. 2020 4676-4687*
- Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020 37-47*
- Distributed Control Strategy Based on a Consensus Algorithm and on the Conservative Power Theory for Imbalance and Harmonic Sharing in 4-Wire Microgrids. *Burgos-Mellado, C.*, +, *TSG March 2020 1604-1619*
- Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation. *Li, J.*, +, *TSG Nov. 2020 4760-4772*
- Distributed Optimal Control of Energy Storages in a DC Microgrid With Communication Delay. *Shi, M.*, +, *TSG May 2020 2033-2042*
- Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*
- Distributed Periodic Event-Triggered Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. *Fan, B.*, +, *TSG Jan. 2020 577-589*
- Distributed Predictive Control for Frequency and Voltage Regulation in Microgrids. *Gomez, J.S.*, +, *TSG March 2020 1319-1329*
- Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults. *Dehkordi, N.M.*, +, *TSG May 2020 2699-2708*
- Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*
- Distributed Risk-Limiting Load Restoration in Unbalanced Distribution Systems With Networked Microgrids. *Shen, F.*, +, *TSG Nov. 2020 4574-4586*
- Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. *Xing, L.*, +, *TSG May 2020 2487-2497*
- Distributed Secondary Voltage Control in Islanded Microgrids With Consideration of Communication Network and Time Delays. *Lou, G.*, +, *TSG Sept. 2020 3702-3715*
- Distributed Solution of Stochastic Volt/VAr Control in Radial Networks. *Nazir, F.U.*, +, *TSG Nov. 2020 5314-5324*
- Distribution Network Marginal Costs: Enhanced AC OPF Including Transformer Degradation. *Andrianesis, P.*, +, *TSG Sept. 2020 3910-3920*
- Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems. *Sayed, A.R.*, +, *TSG May 2020 2092-2105*
- Double Deep  $Q$ -Learning-Based Distributed Operation of Battery Energy Storage System Considering Uncertainties. *Bui, Y.-H.*, +, *TSG Jan. 2020 457-469*
- Double-Mode Energy Management for Multi-Energy System via Distributed Dynamic Event-Triggered Newton-Raphson Algorithm. *Li, Y.*, +, *TSG Nov. 2020 5339-5356*
- Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees. *Mohiuddin, S.M.*, +, *TSG May 2020 1956-1967*
- Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators. *Kunwar, A.*, +, *TSG May 2020 1942-1955*
- Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization. *Fu, Y.*, +, *TSG March 2020 1510-1525*
- Energy Peer-to-Peer Trading in Virtual Microgrids in Smart Grids: A Game-Theoretic Approach. *Anoh, K.*, +, *TSG March 2020 1264-1275*
- Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*
- Enhancing Distribution System Resilience With Proactive Islanding and RCS-Based Fast Fault Isolation and Service Restoration. *Liu, J.*, +, *TSG May 2020 2381-2395*
- Evaluation of a Communication-Assisted Overcurrent Protection Scheme for Photovoltaic-Based DC Microgrid. *Shabani, A.*, +, *TSG Jan. 2020 429-439*
- Event Trigger Super Twisting Sliding Mode Control for DC Micro Grid With Matched/Unmatched Disturbance Observer. *Kumar, V.*, +, *TSG Sept. 2020 3837-3849*
- Event-Triggered Updating Method in Centralized and Distributed Secondary Controls for Islanded Microgrid Restoration. *Qian, T.*, +, *TSG March 2020 1387-1395*
- Expansion Planning of Active Distribution Networks With Multiple Distributed Energy Resources and EV Sharing System. *Wang, S.*, +, *TSG Jan. 2020 602-611*
- Fault Current Mitigation and Voltage Support Provision by Microgrids With Synchronous Generators. *Liu, X.*, +, *TSG July 2020 2816-2831*
- Fault Section Identification in Smart Distribution Systems Using Multi-Source Data Based on Fuzzy Petri Nets. *Kiaei, I.*, +, *TSG Jan. 2020 74-83*
- Feasible Power-Flow Solution Analysis of DC Microgrids Under Droop Control. *Liu, Z.*, +, *TSG July 2020 2771-2781*
- Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020 391-402*
- Forming a Reliable Hybrid Microgrid Using Electric Spring Coupled With Non-Sensitive Loads and ESS. *Zhang, G.*, +, *TSG July 2020 2867-2879*
- Frequency Disturbance Triggered D-Axis Current Injection Scheme for Islanding Detection. *Ganivada, P.K.*, +, *TSG Nov. 2020 4587-4603*
- Gradient-Based Multi-Area Distribution System State Estimation. *Zhou, X.*, +, *TSG Nov. 2020 5325-5338*
- Graph-Based Faulted Line Identification Using Micro-PMU Data in Distribution Systems. *Zhang, Y.*, +, *TSG Sept. 2020 3982-3992*
- Hierarchical Coordination of Two-Time Scale Microgrids With Supply-Demand Imbalance. *Du, Y.*, +, *TSG Sept. 2020 3726-3736*
- Hierarchical Distributed Voltage Optimization Method for HV and MV Distribution Networks. *Chai, Y.*, +, *TSG March 2020 968-980*
- Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. *Salimi, M.*, +, *TSG Sept. 2020 4390-4402*

- Intelligent Multi-Microgrid Energy Management Based on Deep Neural Network and Model-Free Reinforcement Learning. *Du, Y.*, +, *TSG March 2020 1066-1076*
- Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control. *Velasquez, M.A.*, +, *TSG May 2020 1968-1979*
- Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. *Chang, F.*, +, *TSG Nov. 2020 5273-5287*
- Linearized Hybrid Stochastic/Robust Scheduling of Active Distribution Networks Encompassing PVs. *Baharvandi, A.*, +, *TSG Jan. 2020 357-367*
- Linearized Price-Responsive HVAC Controller for Optimal Scheduling of Smart Building Loads. *Ostadijafari, M.*, +, *TSG July 2020 3131-3145*
- Location of Single Phase to Ground Faults in Distribution Networks Based on Synchronous Transients Energy Analysis. *Wang, X.*, +, *TSG Jan. 2020 774-785*
- Low-Frequency Stability Analysis of Inverter-Based Islanded Multiple-Bus AC Microgrids Based on Terminal Characteristics. *Cao, W.*, +, *TSG Sept. 2020 3662-3676*
- Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. *Elsayed, M.*, +, *TSG March 2020 1091-1099*
- Matrix Completion for Low-Observability Voltage Estimation. *Donti, P.L.*, +, *TSG May 2020 2520-2530*
- MDP-Based Distribution Network Reconfiguration With Renewable Distributed Generation: Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG July 2020 3620-3631*
- Microgrid Dynamic Modeling and Islanding Control With Synchrophasor Data. *Konakalla, S.A.R.*, +, *TSG Jan. 2020 905-915*
- Microgrid Protection and Control Schemes for Seamless Transition to Island and Grid Synchronization. *Vukojevic, A.*, +, *TSG July 2020 2845-2855*
- Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. *Zhang, G.*, +, *TSG Nov. 2020 4847-4859*
- Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions. *Peng, Y.*, +, *TSG March 2020 1330-1342*
- Multi-Objective Adaptive Robust Voltage/VAR Control for High-PV Penetrated Distribution Networks. *Zhang, C.*, +, *TSG Nov. 2020 5288-5300*
- Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*
- Networked-Constrained DER Valuation in Distribution Networks. *Nasiri, H.*, +, *TSG Nov. 2020 4809-4817*
- New Analysis Framework for Transient Stability Evaluation of DC Microgrids. *Xia, Y.*, +, *TSG July 2020 2794-2804*
- Non-Linear Primary Control Mapping for Droop-Like Behavior of Microgrid Systems. *Legry, M.*, +, *TSG Nov. 2020 4604-4613*
- On the Fairness of PV Curtailment Schemes in Residential Distribution Networks. *Liu, M.Z.*, +, *TSG Sept. 2020 4502-4512*
- On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. *Saad, A.*, +, *TSG Nov. 2020 5138-5150*
- Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*
- Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*
- Optimal Control of DERs in ADN Under Spatial and Temporal Correlated Uncertainties. *Chen, X.*, +, *TSG March 2020 1216-1228*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. *Raman, G.*, +, *TSG July 2020 2805-2815*
- Optimal Decentralized Microgrid Coordination via the Schur's Complement and S-Procedure. *Mallick, M.*, +, *TSG Jan. 2020 379-390*
- Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhvatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*
- Optimal Management of Transactive Distribution Electricity Markets With Co-Optimized Bidirectional Energy and Ancillary Service Exchanges. *Wu, Y.*, +, *TSG Nov. 2020 4650-4661*
- Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.I.*, +, *TSG March 2020 1239-1252*
- Optimal Reconfiguration of Distribution Network Using  $\mu$  PMU Measurements: A Data-Driven Stochastic Robust Optimization. *Akrami, A.*, +, *TSG Jan. 2020 420-428*
- Optimal Voltage Reference for Droop-Based DERs in Distribution Systems. *Hong, T.*, +, *TSG May 2020 2357-2366*
- Optimized Autonomous Operation Control to Maintain the Frequency, Voltage and Accurate Power Sharing for DGs in Islanded Systems. *Sun, L.*, +, *TSG Sept. 2020 3885-3895*
- Peer-to-Peer Control for Networked Microgrids: Multi-Layer and Multi-Agent Architecture Design. *Wang, Y.*, +, *TSG Nov. 2020 4688-4699*
- Power Flow Solvers for Direct Current Networks. *Taheri, S.*, +, *TSG Jan. 2020 634-643*
- Privacy-Preserving Collaborative Operation of Networked Microgrids With the Local Utility Grid Based on Enhanced Benders Decomposition. *Li, Z.*, +, *TSG May 2020 2638-2651*
- Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S.*, +, *TSG Sept. 2020 3860-3870*
- Quantitative Evaluations of Uncertainties in Multivariate Operations of Microgrids. *Wang, H.*, +, *TSG July 2020 2892-2903*
- Radiality Constraints for Resilient Reconfiguration of Distribution Systems: Formulation and Application to Microgrid Formation. *Lei, S.*, +, *TSG Sept. 2020 3944-3956*
- Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. *Wang, Y.*, +, *TSG March 2020 1286-1295*
- Reduced-Order State Space Model for Dynamic Phasors in Active Distribution Networks. *Wang, H.*, +, *TSG May 2020 1928-1941*
- Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*
- Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. *Arif, A.*, +, *TSG Jan. 2020 673-685*
- Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*
- Resilient Collaborative Distributed Energy Management System Framework for Cyber-Physical DC Microgrids. *Cheng, Z.*, +, *TSG Nov. 2020 4637-4649*
- Resilient Networked AC Microgrids Under Unbounded Cyber Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3785-3794*
- Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. *Ghorani, R.*, +, *TSG March 2020 1781-1791*
- Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*
- Robust Consensus-Based Distributed Energy Management for Microgrids With Packet Losses Tolerance. *Duan, J.*, +, *TSG Jan. 2020 281-290*
- Robust Coordination of a Hybrid AC/DC Multi-Energy Ship Microgrid With Flexible Voyage and Thermal Loads. *Li, Z.*, +, *TSG July 2020 2782-2793*
- Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S.*, +, *TSG March 2020 1030-1043*
- Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. *Ganjan-Aboukheili, M.*, +, *TSG May 2020 2106-2114*
- Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. *Zhang, G.*, +, *TSG Nov. 2020 4700-4713*
- Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseini-pour, A.*, +, *TSG Sept. 2020 3737-3747*
- Sparse Voltage Measurement-Based Fault Location Using Intelligent Electronic Devices. *Jia, K.*, +, *TSG Jan. 2020 48-60*

- Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. *Wu, Y.*, +, *TSG March 2020 1007-1017*
- Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*
- Steady-State Simulation for Combined Transmission and Distribution Systems. *Pandey, A.*, +, *TSG March 2020 1124-1135*
- Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication. *Lai, J.*, +, *TSG July 2020 2746-2759*
- Switch Opening and Exchange Method for Stochastic Distribution Network Reconfiguration. *Zhan, J.*, +, *TSG July 2020 2995-3007*
- Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*
- Toward a Retail Market for Distribution Grids. *Haider, R.*, +, *TSG Nov. 2020 4891-4905*
- Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. *Dobbe, R.*, +, *TSG March 2020 1296-1306*
- Towards Plug-and-Play Protection for Meshed Distribution Systems With DG. *Tsimtsios, A.M.*, +, *TSG May 2020 1980-1995*
- Transactive Energy Based Aggregation of Prosumers as a Retailer. *Xiao, Y.*, +, *TSG July 2020 3302-3312*
- Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*
- Using a Supercapacitor to Mitigate Battery Microcycles Due to Wind Shear and Tower Shadow Effects in Wind-Diesel Microgrids. *Mohammadi, E.*, +, *TSG Sept. 2020 3677-3689*
- Virtual Inertia From Smart Loads. *Chen, T.*, +, *TSG Sept. 2020 4311-4320*
- Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs. *Hu, X.*, +, *TSG Sept. 2020 4017-4031*
- WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*
- Distributed processing**
- Enabling Efficient and Privacy-Preserving Aggregation Communication and Function Query for Fog Computing-Based Smart Grid. *Liu, J.*, +, *TSG Jan. 2020 247-257*
- Fog-Computing-Based Short-Circuit Diagnosis Scheme. *Tong, J.*, +, *TSG July 2020 3359-3371*
- Distribution networks**
- A Customer-Centric Approach to Bid-Based Transactive Energy System Design. *Battula, S.*, +, *TSG Nov. 2020 4996-5008*
- A Data-Driven Pivot-Point-Based Time-Series Feeder Load Disaggregation Method. *Wang, J.*, +, *TSG Nov. 2020 5396-5406*
- A Fast Adequacy Analysis for Radial Distribution Networks Considering Reconfiguration and DGs. *Arefi, A.*, +, *TSG Sept. 2020 3896-3909*
- A Graphical Measure of Aggregate Flexibility for Energy-Constrained Distributed Resources. *Evans, M.P.*, +, *TSG Jan. 2020 106-117*
- A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. *Zhao, H.*, +, *TSG May 2020 2303-2312*
- A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. *Yang, J.*, +, *TSG Sept. 2020 4056-4069*
- A Risk-Averse Conic Model for Networked Microgrids Planning With Reconfiguration and Reorganizations. *Cao, X.*, +, *TSG Jan. 2020 696-709*
- Affine Arithmetic-Based Coordinated Interval Power Flow of Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TSG Sept. 2020 4116-4132*
- An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*
- Bayesian Learning-Based Harmonic State Estimation in Distribution Systems With Smart Meter and DPMU Data. *Zhou, W.*, +, *TSG Jan. 2020 832-845*
- Building Large-Scale U.S. Synthetic Electric Distribution System Models. *Mateo, C.*, +, *TSG Nov. 2020 5301-5313*
- Characterizing the Reserve Provision Capability Area of Active Distribution Networks: A Linear Robust Optimization Method. *Kalantar-Neyestanaki, M.*, +, *TSG May 2020 2464-2475*
- Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems. *Jabbari Ghadi, M.*, +, *TSG July 2020 2966-2979*
- Decentralized and Per-Unit Primary Control Framework for DC Distribution Networks With Multiple Voltage Levels. *Wang, X.*, +, *TSG Sept. 2020 3993-4004*
- Development of New Identification Method for Global Group of Controls for Online Coordinated Voltage Control in Active Distribution Networks. *Alzaareer, K.*, +, *TSG Sept. 2020 3921-3931*
- Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*
- Distribution Network Marginal Costs: Enhanced AC OPF Including Transformer Degradation. *Andrianesis, P.*, +, *TSG Sept. 2020 3910-3920*
- Dynamic Distribution State Estimation Using Synchrophasor Data. *Song, J.*, +, *TSG Jan. 2020 821-831*
- Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization. *Fu, Y.*, +, *TSG March 2020 1510-1525*
- Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. *Qian, T.*, +, *TSG July 2020 3019-3030*
- Establishment of Enhanced Load Modeling by Correlating With Occupancy Information. *Tang, Y.*, +, *TSG March 2020 1702-1713*
- Flexible Machine Learning-Based Cyberattack Detection Using Spatio-temporal Patterns for Distribution Systems. *Cui, M.*, +, *TSG March 2020 1805-1808*
- Frequency Event Categorization in Power Distribution Systems Using Micro PMU Measurements. *Duan, N.*, +, *TSG July 2020 3043-3053*
- Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*
- Graph-Based Faulted Line Identification Using Micro-PMU Data in Distribution Systems. *Zhang, Y.*, +, *TSG Sept. 2020 3982-3992*
- Hierarchical Coordination of Two-Time Scale Microgrids With Supply-Demand Imbalance. *Du, Y.*, +, *TSG Sept. 2020 3726-3736*
- Improving Supervised Phase Identification Through the Theory of Information Losses. *Foggo, B.*, +, *TSG May 2020 2337-2346*
- Linear Formulations for Topology-Variable-Based Distribution System Reliability Assessment Considering Switching Interruptions. *Jooshaki, M.*, +, *TSG Sept. 2020 4032-4043*
- Linearized Hybrid Stochastic/Robust Scheduling of Active Distribution Networks Encompassing PVs. *Baharvandi, A.*, +, *TSG Jan. 2020 357-367*
- Modelling and Control of Ensembles of Variable-Speed Air Conditioning Loads for Demand Response. *Mahdavi, N.*, +, *TSG Sept. 2020 4249-4260*
- Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements. *Ramapuram Matavalam, A.R.*, +, *TSG Jan. 2020 873-883*
- Multi-Task Logistic Low-Ranked Dirty Model for Fault Detection in Power Distribution System. *Gilanifar, M.*, +, *TSG Jan. 2020 786-796*
- Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*
- On the Fairness of PV Curtailment Schemes in Residential Distribution Networks. *Liu, M.Z.*, +, *TSG Sept. 2020 4502-4512*
- Operation of Distribution Network Considering Compressed Air Energy Storage Unit and Its Reactive Power Support Capability. *Guo, Z.*, +, *TSG July 2020 2954-2965*
- Optimal Energy Storage System Operation for Peak Reduction in a Distribution Network Using a Prediction Interval. *Kodaira, D.*, +, *TSG May 2020 2208-2217*
- Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Lv, S.*, +, *TSG May 2020 1854-1865*
- Optimal Reconfiguration of Distribution Network Using  $\mu$  PMU Measurements: A Data-Driven Stochastic Robust Optimization. *Akrami, A.*, +, *TSG Jan. 2020 420-428*

- Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S.*, +, *TSG Sept. 2020 3860-3870*
- Quantitative Evaluations of Uncertainties in Multivariate Operations of Microgrids. *Wang, H.*, +, *TSG July 2020 2892-2903*
- Reduced-Order State Space Model for Dynamic Phasors in Active Distribution Networks. *Wang, H.*, +, *TSG May 2020 1928-1941*
- Separating Feeder Demand Into Components Using Substation, Feeder, and Smart Meter Measurements. *Ledva, G.S.*, +, *TSG July 2020 3280-3290*
- Signal-Anticipation in Local Voltage Control in Distribution Systems. *Liu, Z.*, +, *TSG Jan. 2020 233-246*
- Slope-Based Shape Cluster Method for Smart Metering Load Profiles. *Xiang, Y.*, +, *TSG March 2020 1809-1811*
- Spatio-Temporal Correlation Analysis of Online Monitoring Data for Anomaly Detection and Location in Distribution Networks. *Shi, X.*, +, *TSG March 2020 995-1006*
- Switch Opening and Exchange Method for Stochastic Distribution Network Reconfiguration. *Zhan, J.*, +, *TSG July 2020 2995-3007*
- Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*
- Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. *Dobbe, R.*, +, *TSG March 2020 1296-1306*
- Unbalanced Voltage Suppression in a Bipolar DC Distribution Network Based on DC Electric Springs. *Liao, J.*, +, *TSG March 2020 1667-1678*
- Unsupervised Impedance and Topology Estimation of Distribution Networks—Limitations and Tools. *Moffat, K.*, +, *TSG Jan. 2020 846-856*
- Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs. *Hu, X.*, +, *TSG Sept. 2020 4017-4031*
- WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*
- District heating**
- Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S.*, +, *TSG Nov. 2020 4818-4832*
- Robust Scheduling of Integrated Electricity and Heating System Hedging Heating Network Uncertainties. *Zhou, H.*, +, *TSG March 2020 1543-1555*
- Divide and conquer methods**
- Distributed Outage Detection in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG Nov. 2020 5124-5137*
- Domestic appliances**
- A Data-Driven Approach for Targeting Residential Customers for Energy Efficiency Programs. *Liang, H.*, +, *TSG March 2020 1229-1238*
- A Fast Algorithm for Optimal Power Scheduling of Large-Scale Appliances With Temporally Spatially Coupled Constraints. *Guo, Z.*, +, *TSG March 2020 1136-1146*
- A Hierarchical Control Framework With a Novel Bidding Scheme for Residential Community Energy Optimization. *Paudyal, P.*, +, *TSG Jan. 2020 710-719*
- A Hybrid Event Detection Approach for Non-Intrusive Load Monitoring. *Lu, M.*, +, *TSG Jan. 2020 528-540*
- A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*
- A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. *Kong, W.*, +, *TSG Jan. 2020 148-160*
- Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models. *Kaseli, M.*, +, *TSG July 2020 3054-3067*
- Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*
- Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*
- Estimating the Profile of Incentive-Based Demand Response (IBDR) by Integrating Technical Models and Social-Behavioral Factors. *Shi, Q.*, +, *TSG Jan. 2020 171-183*
- Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. *Luo, F.*, +, *TSG Jan. 2020 4-14*
- Real-Time Residential Demand Response. *Li, H.*, +, *TSG Sept. 2020 4144-4154*
- Transfer Learning for Non-Intrusive Load Monitoring. *D'Incecco, M.*, +, *TSG March 2020 1419-1429*
- Virtual Inertia From Smart Loads. *Chen, T.*, +, *TSG Sept. 2020 4311-4320*
- Dynamic programming**
- A Customer-Centric Approach to Bid-Based Transactive Energy System Design. *Battula, S.*, +, *TSG Nov. 2020 4996-5008*
- A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S.*, +, *TSG Nov. 2020 4916-4927*
- Charge Scheduling of Electric Vehicles in Smart Parking-Lot Under Future Demands Uncertainty. *Fallah-Mehrjardi, O.*, +, *TSG Nov. 2020 4949-4959*
- Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*
- Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG May 2020 2498-2510*
- MDP-Based Distribution Network Reconfiguration With Renewable Distributed Generation: Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG July 2020 3620-3631*
- Optimal Combination of Frequency Control and Peak Shaving With Battery Storage Systems. *Engels, J.*, +, *TSG July 2020 3270-3279*
- Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N.*, +, *TSG March 2020 1771-1780*
- Sensor Placement for Outage Identifiability in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG May 2020 1996-2013*
- Stochastic Geometry-Based Model for Dynamic Allocation of Metering Equipment in Spatio-Temporal Expanding Power Grids. *Atat, R.*, +, *TSG May 2020 2080-2091*
- Stochastic Transactive Control for Electric Vehicle Aggregators Coordination: A Decentralized Approximate Dynamic Programming Approach. *Pan, Z.*, +, *TSG Sept. 2020 4261-4277*
- VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. *Yazdanejad, M.*, +, *TSG July 2020 3632-3645*
- Dynamic response**
- Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseinipour, A.*, +, *TSG Sept. 2020 3737-3747*

## E

**Earthing**

- Location of Single Phase to Ground Faults in Distribution Networks Based on Synchronous Transients Energy Analysis. *Wang, X.*, +, *TSG Jan. 2020 774-785*

**Eigenvalues and eigenfunctions**

- A Geometric Analysis of Power System Loadability Regions. *Weng, Y.*, +, *TSG July 2020 3580-3592*
- A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. *Zhou, J.*, +, *TSG Sept. 2020 3716-3725*
- Distorted Stability Space and Instability Triggering Mechanism of EV Aggregation Delays in the Secondary Frequency Regulation of Electrical Grid-Electric Vehicle System. *Dong, C.*, +, *TSG Nov. 2020 5084-5098*
- Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators. *Kunwar, A.*, +, *TSG May 2020 1942-1955*
- Public Plug-in Electric Vehicles + Grid Data: Is a New Cyberattack Vector Viable?. *Acharya, S.*, +, *TSG Nov. 2020 5099-5113*
- Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseinipour, A.*, +, *TSG Sept. 2020 3737-3747*

**Electric current control**

- Distributed Periodic Event-Triggered Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. *Fan, B.*, +, *TSG Jan. 2020 577-589*
- Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. *Xing, L.*, +, *TSG May 2020 2487-2497*
- Frequency Disturbance Triggered D-Axis Current Injection Scheme for Islanding Detection. *Ganivada, P.K.*, +, *TSG Nov. 2020 4587-4603*

Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. *Ganjian-Aboukheili, M.*, +, *TSG May 2020 2106-2114*

#### Electric current measurement

A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M.*, +, *TSG May 2020 2115-2124*

Detecting the Location of Short-Circuit Faults in Active Distribution Network Using PMU-Based State Estimation. *Gholami, M.*, +, *TSG March 2020 1396-1406*

Optimal Reconfiguration of Distribution Network Using  $\mu$  PMU Measurements: A Data-Driven Stochastic Robust Optimization. *Akrami, A.*, +, *TSG Jan. 2020 420-428*

Unsupervised Impedance and Topology Estimation of Distribution Networks—Limitations and Tools. *Moffat, K.*, +, *TSG Jan. 2020 846-856*

#### Electric generators

Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020 1171-1182*

#### Electric heating

A Customer-Centric Approach to Bid-Based Transactive Energy System Design. *Battula, S.*, +, *TSG Nov. 2020 4996-5008*

A Novel Domestic Electric Water Heater Control Method. *Xiang, S.*, +, *TSG July 2020 3246-3256*

Data-Driven Wind Generation Admissibility Assessment of Integrated Electric-Heat Systems: A Dynamic Convex Hull-Based Approach. *Wang, C.*, +, *TSG Sept. 2020 4531-4543*

#### Electric impedance

A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances. *Razi, R.*, +, *TSG Sept. 2020 3795-3804*

Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators. *Kunwar, A.*, +, *TSG May 2020 1942-1955*

Unsupervised Impedance and Topology Estimation of Distribution Networks—Limitations and Tools. *Moffat, K.*, +, *TSG Jan. 2020 846-856*

#### Electric impedance measurement

Enhance High Impedance Fault Detection and Location Accuracy via  $\mu$ -PMUs. *Cui, Q.*, +, *TSG Jan. 2020 797-809*

Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems. *Jia, K.*, +, *TSG Jan. 2020 323-333*

#### Electric potential

Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. *Xing, L.*, +, *TSG May 2020 2487-2497*

Measurement-Based Voltage Stability Assessment Considering VAR Limits. *Liu, C.*, +, *TSG Jan. 2020 301-311*

#### Electric sensing devices

Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*

#### Electric vehicle charging

A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*

An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*

Ancillary Services Provision Utilizing a Network of Fast-Charging Stations for Electrical Buses. *Lymperopoulos, I.*, +, *TSG Jan. 2020 665-672*

Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles. *Wang, B.*, +, *TSG May 2020 2324-2336*

Charge Scheduling of Electric Vehicles in Smart Parking-Lot Under Future Demands Uncertainty. *Fallah-Mehrjardi, O.*, +, *TSG Nov. 2020 4949-4959*

Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H.*, +, *TSG May 2020 2427-2439*

Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems. *Jabbari Ghadi, M.*, +, *TSG July 2020 2966-2979*

Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. *Sadeghianpourhamami, N.*, +, *TSG Jan. 2020 203-214*

Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. *Qian, T.*, +, *TSG July 2020 3019-3030*

Expansion Planning of Active Distribution Networks With Multiple Distributed Energy Resources and EV Sharing System. *Wang, S.*, +, *TSG Jan. 2020 602-611*

Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*

PEV Fast-Charging Station Sizing and Placement in Coupled Transportation-Distribution Networks Considering Power Line Conditioning Capability. *Hashemian, S.N.*, +, *TSG Nov. 2020 4773-4783*

Power and Transport Nexus: Routing Electric Vehicles to Promote Renewable Power Integration. *Zhang, H.*, +, *TSG July 2020 3291-3301*

Pricing and Routing Mechanisms for Differentiated Services in an Electric Vehicle Public Charging Station Network. *Moradipari, A.*, +, *TSG March 2020 1489-1499*

Public Plug-in Electric Vehicles + Grid Data: Is a New Cyberattack Vector Viable?. *Acharya, S.*, +, *TSG Nov. 2020 5099-5113*

Small-Signal Stability of a DC Network Planned for Electric Vehicle Charging. *Du, W.*, +, *TSG Sept. 2020 3748-3762*

#### Electric vehicles

A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S.*, +, *TSG Nov. 2020 4916-4927*

A Market Framework for Decentralized Congestion Management in Smart Distribution Grids Considering Collaboration Among Electric Vehicle Aggregators. *Asrari, A.*, +, *TSG March 2020 1147-1158*

A Mid-Term DSO Market for Capacity Limits: How to Estimate Opportunity Costs of Aggregators?. *Ziras, C.*, +, *TSG Jan. 2020 334-345*

Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning. *Hajebrahimi, A.*, +, *TSG Sept. 2020 4278-4289*

An Efficient Robust Approach to the Day-Ahead Operation of an Aggregator of Electric Vehicles. *Porrás, A.*, +, *TSG Nov. 2020 4960-4970*

An Online Admission Control Mechanism for Electric Vehicles at Public Parking Infrastructures. *Tucker, N.*, +, *TSG Jan. 2020 161-170*

Coordinated Planning of Transportation and Electric Power Networks With the Proliferation of Electric Vehicles. *Gan, W.*, +, *TSG Sept. 2020 4005-4016*

Coordination of Electric Vehicle Charging Through Multiagent Reinforcement Learning. *Silva, F.L.D.*, +, *TSG May 2020 2347-2356*

Deep Reinforcement Learning for EV Charging Navigation by Coordinating Smart Grid and Intelligent Transportation System. *Qian, T.*, +, *TSG March 2020 1714-1723*

Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. *Sadeghianpourhamami, N.*, +, *TSG Jan. 2020 203-214*

Deployment of the Electric Vehicle Charging Station Considering Existing Competitors. *Zhao, Y.*, +, *TSG Sept. 2020 4236-4248*

Distorted Stability Space and Instability Triggering Mechanism of EV Aggregation Delays in the Secondary Frequency Regulation of Electrical Grid-Electric Vehicle System. *Dong, C.*, +, *TSG Nov. 2020 5084-5098*

Distribution Network Marginal Costs: Enhanced AC OPF Including Transformer Degradation. *Andrianesis, P.*, +, *TSG Sept. 2020 3910-3920*

Electric Vehicle Aggregator Modeling and Control for Frequency Regulation Considering Progressive State Recovery. *Wang, M.*, +, *TSG Sept. 2020 4176-4189*

Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Lv, S.*, +, *TSG May 2020 1854-1865*

Optimal Reconfiguration of Distribution Network Using  $\mu$  PMU Measurements: A Data-Driven Stochastic Robust Optimization. *Akrami, A.*, +, *TSG Jan. 2020 420-428*

State Space Model of Aggregated Electric Vehicles for Frequency Regulation. *Wang, M.*, +, *TSG March 2020 981-994*

Stochastic Transactive Control for Electric Vehicle Aggregators Coordination: A Decentralized Approximate Dynamic Programming Approach. *Pan, Z.*, +, *TSG Sept. 2020 4261-4277*

**Electricity supply industry**

CASeS: Concurrent Contingency Analysis-Based Security Metric Deployment for the Smart Grid. *Akaber, P.*, +, *TSG May 2020 2676-2687*

Erratum to “Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems” [Jul 20 3558-3569]. *Nan, L.*, +, *TSG Sept. 2020 4569*

Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems. *Nan, L.*, +, *TSG July 2020 3558-3569*

**Electromechanical effects**

Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

**Energy conservation**

A Data-Driven Approach for Targeting Residential Customers for Energy Efficiency Programs. *Liang, H.*, +, *TSG March 2020 1229-1238*

Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control. *Shabshab, S.C.*, +, *TSG May 2020 1917-1927*

Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S.*, +, *TSG Nov. 2020 4818-4832*

Networked-Constrained DER Valuation in Distribution Networks. *Nasiri, H.*, +, *TSG Nov. 2020 4809-4817*

Optimal Coordinated Operation of Interdependent Power and Water Distribution Systems. *Oikonomou, K.*, +, *TSG Nov. 2020 4784-4794*

Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. *Luo, F.*, +, *TSG Jan. 2020 4-14*

Robust Scheduling of Integrated Electricity and Heating System Hedging Heating Network Uncertainties. *Zhou, H.*, +, *TSG March 2020 1543-1555*

**Energy consumption**

A Data-Driven Approach for Targeting Residential Customers for Energy Efficiency Programs. *Liang, H.*, +, *TSG March 2020 1229-1238*

A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*

Electricity Theft Pinpointing Through Correlation Analysis of Master and Individual Meter Readings. *Biswas, P.P.*, +, *TSG July 2020 3031-3042*

Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S.*, +, *TSG Nov. 2020 4818-4832*

Separation of Residential Space Cooling Usage From Smart Meter Data. *Liang, H.*, +, *TSG July 2020 3107-3118*

**Energy loss**

Closure to “Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems”. *Alkaabi, S.S.*, +, *TSG March 2020 1813-1815*

Discussion on “Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems”. *Khalid, M.*, *TSG March 2020 1812*

**Energy management systems**

A Distributed and Robust Energy Management System for Networked Hybrid AC/DC Microgrids. *Xu, Q.*, +, *TSG July 2020 3496-3508*

A Lyapunov Optimization-Based Energy Management Strategy for Energy Hub With Energy Router. *Li, P.*, +, *TSG Nov. 2020 4860-4870*

A New and Fair Peer-to-Peer Energy Sharing Framework for Energy Buildings. *Cui, S.*, +, *TSG Sept. 2020 3817-3826*

A Novel Graph-Based Energy Management System. *Dai, R.*, +, *TSG May 2020 1845-1853*

An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*

Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles. *Wang, B.*, +, *TSG May 2020 2324-2336*

Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids. *Wang, S.*, +, *TSG Sept. 2020 3774-3784*

Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*

Day-Ahead Energy Management for Pelagic Island Microgrid Groups Considering Non-Integer-Hour Energy Transmission. *Sui, Q.*, +, *TSG Nov. 2020 5249-5259*

Deep Reinforcement Learning Method for Demand Response Management of Interruptible Load. *Wang, B.*, +, *TSG July 2020 3146-3155*

Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems. *Sayed, A.R.*, +, *TSG May 2020 2092-2105*

Double-Mode Energy Management for Multi-Energy System via Distributed Dynamic Event-Triggered Newton-Raphson Algorithm. *Li, Y.*, +, *TSG Nov. 2020 5339-5356*

Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization. *Fu, Y.*, +, *TSG March 2020 1510-1525*

Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*

Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*

Hierarchical Coordination of Two-Time Scale Microgrids With Supply-Demand Imbalance. *Du, Y.*, +, *TSG Sept. 2020 3726-3736*

Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*

Intelligent Multi-Microgrid Energy Management Based on Deep Neural Network and Model-Free Reinforcement Learning. *Du, Y.*, +, *TSG March 2020 1066-1076*

Model-Free Real-Time Autonomous Control for a Residential Multi-Energy System Using Deep Reinforcement Learning. *Ye, Y.*, +, *TSG July 2020 3068-3082*

Modelling and Control of Ensembles of Variable-Speed Air Conditioning Loads for Demand Response. *Mahdavi, N.*, +, *TSG Sept. 2020 4249-4260*

Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*

Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. *Luo, F.*, +, *TSG Jan. 2020 4-14*

Optimal Participation of Residential Aggregators in Energy and Local Flexibility Markets. *Correa-Florez, C.A.*, +, *TSG March 2020 1644-1656*

Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. *Wang, Y.*, +, *TSG March 2020 1286-1295*

Resilient Collaborative Distributed Energy Management System Framework for Cyber-Physical DC Microgrids. *Cheng, Z.*, +, *TSG Nov. 2020 4637-4649*

Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*

Robust Consensus-Based Distributed Energy Management for Microgrids With Packet Losses Tolerance. *Duan, J.*, +, *TSG Jan. 2020 281-290*

Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. *Safdarian, F.*, +, *TSG Sept. 2020 4544-4554*

Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*

Virtual Energy Storage Sharing and Capacity Allocation. *Zhao, D.*, +, *TSG March 2020 1112-1123*

**Energy resources**

Toward a Retail Market for Distribution Grids. *Haider, R.*, +, *TSG Nov. 2020 4891-4905*

Validation of Synthetic U.S. Electric Power Distribution System Data Sets. *Krishnan, V.*, +, *TSG Sept. 2020 4477-4489*

**Energy storage**

A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. *He, L.*, +, *TSG March 2020 1737-1747*

A Distributed Task Allocation Based on a Winner-Take-All Approach for Multiple Energy Storage Systems Coordination in a Microgrid. *Xu, Y.*, +, *TSG Jan. 2020 686-695*

A Graphical Measure of Aggregate Flexibility for Energy-Constrained Distributed Resources. *Evans, M.P.*, +, *TSG Jan. 2020 106-117*

A Lyapunov Optimization-Based Energy Management Strategy for Energy Hub With Energy Router. *Li, P.*, +, *TSG Nov. 2020 4860-4870*

A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*

- A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. *Zhou, J.*, +, *TSG Sept. 2020 3716-3725*
- A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. *Yang, J.*, +, *TSG Sept. 2020 4056-4069*
- Ancillary Services Provision Utilizing a Network of Fast-Charging Stations for Electrical Buses. *Lymperopoulos, I.*, +, *TSG Jan. 2020 665-672*
- Chance-Constrained Frequency Regulation with Energy Storage Systems in Distribution Networks. *Sun, Y.*, +, *TSG Jan. 2020 215-228*
- Chance-Constrained Optimization of Energy Storage Capacity for Microgrids. *Yahya Soltani, N.*, +, *TSG July 2020 2760-2770*
- Convex Relaxation of Grid-Connected Energy Storage System Models With Complementarity Constraints in DC OPF. *Garifi, K.*, +, *TSG Sept. 2020 4070-4079*
- Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. *Afshari, A.*, +, *TSG May 2020 1866-1879*
- Decentralized and Per-Unit Primary Control Framework for DC Distribution Networks With Multiple Voltage Levels. *Wang, X.*, +, *TSG Sept. 2020 3993-4004*
- Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System. *Sanchez Gorostiza, F.*, +, *TSG Nov. 2020 5039-5050*
- Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*
- Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control. *Shabshab, S.C.*, +, *TSG May 2020 1917-1927*
- Demand-Side Management With Shared Energy Storage System in Smart Grid. *Jo, J.*, +, *TSG Sept. 2020 4466-4476*
- Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators. *Kunwar, A.*, +, *TSG May 2020 1942-1955*
- Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*
- Expansion Planning of Active Distribution Networks With Multiple Distributed Energy Resources and EV Sharing System. *Wang, S.*, +, *TSG Jan. 2020 602-611*
- Fast Frequency Response From Energy Storage Systems—A Review of Grid Standards, Projects and Technical Issues. *Meng, L.*, +, *TSG March 2020 1566-1581*
- Forming a Reliable Hybrid Microgrid Using Electric Spring Coupled With Non-Sensitive Loads and ESS. *Zhang, G.*, +, *TSG July 2020 2867-2879*
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- Incentive-Based Integrated Demand Response for Multiple Energy Carriers Considering Behavioral Coupling Effect of Consumers. *Zheng, S.*, +, *TSG July 2020 3231-3245*
- Minimizing Wind Power Curtailment Using a Continuous-Time Risk-Based Model of Generating Units and Bulk Energy Storage. *Nikobakht, A.*, +, *TSG Nov. 2020 4833-4846*
- Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W.*, +, *TSG Sept. 2020 4105-4115*
- On the Round-Trip Efficiency of an HVAC-Based Virtual Battery. *Raman, N.S.*, +, *TSG Jan. 2020 403-410*
- Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Optimal Energy Storage System Operation for Peak Reduction in a Distribution Network Using a Prediction Interval. *Kodaira, D.*, +, *TSG May 2020 2208-2217*
- Risk-Averse Model Predictive Control Design for Battery Energy Storage Systems. *Rosewater, D.*, +, *TSG May 2020 2014-2022*
- Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S.*, +, *TSG March 2020 1030-1043*
- Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseinipour, A.*, +, *TSG Sept. 2020 3737-3747*
- Virtual Energy Storage Sharing and Capacity Allocation. *Zhao, D.*, +, *TSG March 2020 1112-1123*
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- A Unified Approach for Reliability Assessment of Critical Infrastructures Using Graph Theory and Entropy. *Iranpour, M.*, +, *TSG Nov. 2020 5184-5192*
- Environmental economics**
- Low-Carbon Operation of Multiple Energy Systems Based on Energy-Carbon Integrated Prices. *Cheng, Y.*, +, *TSG March 2020 1307-1318*
- Equivalent circuits**
- Detection and Mitigation of Cyber Attacks on Voltage Stability Monitoring of Smart Grids. *Ghafouri, M.*, +, *TSG Nov. 2020 5227-5238*
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- Evolutionary computation**
- A Sponsor Incentive Attack Scheme for Feeder Automation Systems. *Dai, Q.*, +, *TSG March 2020 1440-1452*
- Expectation-maximization algorithms**
- A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S.*, +, *TSG Nov. 2020 4916-4927*
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- Failure analysis**
- A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters. *Liu, X.*, +, *TSG Nov. 2020 5431-5441*
- An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems. *Liu, W.*, +, *TSG Jan. 2020 541-554*
- Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*
- Graphical Models in Meshed Distribution Grids: Topology Estimation, Change Detection & Limitations. *Deka, D.*, +, *TSG Sept. 2020 4299-4310*
- Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG May 2020 2498-2510*
- Methodology for Reliability Assessment of Smart Grid Considering Risk of Failure of Communication Architecture. *Zhu, W.*, +, *TSG Sept. 2020 4358-4365*
- Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*
- Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*
- Spatial-Temporal Reliability and Damage Assessment of Transmission Networks Under Hurricanes. *Zhang, H.*, +, *TSG March 2020 1044-1054*
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- Fans**
- Desynchronized Model Predictive Control for Large Populations of Fans in Server Racks of Datacenters. *Laparra, G.*, +, *TSG Jan. 2020 411-419*
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- Model-Free Data Authentication for Cyber Security in Power Systems. *Liu, S.*, +, *TSG Sept. 2020 4565-4568*
- Fault current limiters**
- Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*

**Fault currents**

Evaluation of a Communication-Assisted Overcurrent Protection Scheme for Photovoltaic-Based DC Microgrid. *Shabani, A.*, +, *TSG Jan. 2020* 429-439

Fault Current Mitigation and Voltage Support Provision by Microgrids With Synchronous Generators. *Liu, X.*, +, *TSG July 2020* 2816-2831

Location of Single Phase to Ground Faults in Distribution Networks Based on Synchronous Transients Energy Analysis. *Wang, X.*, +, *TSG Jan. 2020* 774-785

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Guest Editorial Theory and Application of PMUs in Power Distribution Systems. *Mohsenian-Rad, H.*, +, *TSG Jan. 2020* 723-725

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A Hierarchical Power Grid Fault Diagnosis Method Using Multi-Source Information. *Wang, S.*, +, *TSG May 2020* 2067-2079

A New Approach to Reliability Assessment and Improvement of Synchronophasor Communications in Smart Grids. *Seyedi, Y.*, +, *TSG Sept. 2020* 4415-4426

A Unified Approach for Reliability Assessment of Critical Infrastructures Using Graph Theory and Entropy. *Iranpour, M.*, +, *TSG Nov. 2020* 5184-5192

Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation. *Jiang, Y.*, *TSG Jan. 2020* 129-137

Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020* 37-47

Enhancing Distribution System Resilience With Proactive Islanding and RCS-Based Fast Fault Isolation and Service Restoration. *Liu, J.*, +, *TSG May 2020* 2381-2395

Graph-Based Faulted Line Identification Using Micro-PMU Data in Distribution Systems. *Zhang, Y.*, +, *TSG Sept. 2020* 3982-3992

Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning. *Xiong, S.*, +, *TSG Nov. 2020* 5239-5248

Multi-Task Logistic Low-Ranked Dirty Model for Fault Detection in Power Distribution System. *Gilanifar, M.*, +, *TSG Jan. 2020* 786-796

Synchrophasor-Based Condition Monitoring of Instrument Transformers Using Clustering Approach. *Cui, B.*, +, *TSG May 2020* 2688-2698

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A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M.*, +, *TSG May 2020* 2115-2124

Attack Identification and Correction for PMU GPS Spoofing in Unbalanced Distribution Systems. *Zhang, Y.*, +, *TSG Jan. 2020* 762-773

Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation. *Jiang, Y.*, *TSG Jan. 2020* 129-137

Detecting the Location of Short-Circuit Faults in Active Distribution Network Using PMU-Based State Estimation. *Gholami, M.*, +, *TSG March 2020* 1396-1406

Enhance High Impedance Fault Detection and Location Accuracy via  $\mu$ -PMUs. *Cui, Q.*, +, *TSG Jan. 2020* 797-809

Fault Section Identification in Smart Distribution Systems Using Multi-Source Data Based on Fuzzy Petri Nets. *Kiaei, I.*, +, *TSG Jan. 2020* 74-83

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Graph-Based Faulted Line Identification Using Micro-PMU Data in Distribution Systems. *Zhang, Y.*, +, *TSG Sept. 2020* 3982-3992

High Frequency Transient Sparse Measurement-Based Fault Location for Complex DC Distribution Networks. *Jia, K.*, +, *TSG Jan. 2020* 312-322

Intelligent Damage Classification and Estimation in Power Distribution Poles Using Unmanned Aerial Vehicles and Convolutional Neural Networks. *Hosseini, M.M.*, +, *TSG July 2020* 3325-3333

Location of Single Phase to Ground Faults in Distribution Networks Based on Synchronous Transients Energy Analysis. *Wang, X.*, +, *TSG Jan. 2020* 774-785

Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020* 1822-1832

Sparse Voltage Measurement-Based Fault Location Using Intelligent Electronic Devices. *Jia, K.*, +, *TSG Jan. 2020* 48-60

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A Hierarchical Power Grid Fault Diagnosis Method Using Multi-Source Information. *Wang, S.*, +, *TSG May 2020* 2067-2079

Fog-Computing-Based Short-Circuit Diagnosis Scheme. *Tong, J.*, +, *TSG July 2020* 3359-3371

**Fault tolerant control**

Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. *Afshari, A.*, +, *TSG May 2020* 1866-1879

Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020* 37-47

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Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020* 1171-1182

Deep Learning-Based Real-Time Building Occupancy Detection Using AMI Data. *Feng, C.*, +, *TSG Sept. 2020* 4490-4501

Model-Free Data Authentication for Cyber Security in Power Systems. *Liu, S.*, +, *TSG Sept. 2020* 4565-4568

Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020* 2722-2733

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Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020* 4427-4439

Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020* 3469-3482

Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. *Xing, L.*, +, *TSG May 2020* 2487-2497

Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020* 391-402

Microgrid Dynamic Modeling and Islanding Control With Synchrophasor Data. *Konakalla, S.A.R.*, +, *TSG Jan. 2020* 905-915

Voltage Regulation of DC-Microgrid With PV and Battery. *Sun, J.*, +, *TSG Nov. 2020* 4662-4675

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Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020* 391-402

Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control. *Huang, L.*, +, *TSG Jan. 2020* 501-516

Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. *Ganjan-Aboukheili, M.*, +, *TSG May 2020* 2106-2114

**Feedforward neural networks**

A Hybrid Distribution Feeder Long-Term Load Forecasting Method Based on Sequence Prediction. *Dong, M.*, +, *TSG Jan. 2020* 470-482

A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. *Zhao, H.*, +, *TSG May 2020* 2303-2312

A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020* 3201-3211

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Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. *Liu, B.*, +, *TSG Sept. 2020* 4345-4357

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A Novel Fitted Rolling Horizon Control Approach for Real-Time Policy Making in Microgrid. *Das, A.*, +, *TSG July 2020 3535-3544*

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A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. *Yao, W.*, +, *TSG Jan. 2020 895-904*

A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. *Yang, J.*, +, *TSG Sept. 2020 4056-4069*

A Practical Secondary Frequency Control Strategy for Virtual Synchronous Generator. *Jiang, K.*, +, *TSG May 2020 2734-2736*

Active Distribution Grids Offering Ancillary Services in Islanded and Grid-Connected Mode. *Karagiannopoulos, S.*, +, *TSG Jan. 2020 623-633*

Chance-Constrained Frequency Regulation with Energy Storage Systems in Distribution Networks. *Sun, Y.*, +, *TSG Jan. 2020 215-228*

Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. *Afshari, A.*, +, *TSG May 2020 1866-1879*

D-PMU Based Secondary Frequency Control for Islanded Microgrids. *Rodrigues, Y.R.*, +, *TSG Jan. 2020 857-872*

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

Design and Validation of a Wide Area Monitoring and Control System for Fast Frequency Response. *Hong, Q.*, +, *TSG July 2020 3394-3404*

Detection and Mitigation of Data Manipulation Attacks in AC Microgrids. *Mustafa, A.*, +, *TSG May 2020 2588-2603*

Deterministic Dynamic State Estimation-Based Optimal LFC for Interconnected Power Systems Using Unknown Input Observer. *Haes Alhelou, H.*, +, *TSG March 2020 1582-1592*

Distorted Stability Space and Instability Triggering Mechanism of EV Aggregation Delays in the Secondary Frequency Regulation of Electrical Grid-Electric Vehicle System. *Dong, C.*, +, *TSG Nov. 2020 5084-5098*

Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020 37-47*

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults. *Dehkordi, N.M.*, +, *TSG May 2020 2699-2708*

Electric Vehicle Aggregator Modeling and Control for Frequency Regulation Considering Progressive State Recovery. *Wang, M.*, +, *TSG Sept. 2020 4176-4189*

Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*

Event-Triggered Updating Method in Centralized and Distributed Secondary Controls for Islanded Microgrid Restoration. *Qian, T.*, +, *TSG March 2020 1387-1395*

Fast Frequency Response From Energy Storage Systems—A Review of Grid Standards, Projects and Technical Issues. *Meng, L.*, +, *TSG March 2020 1566-1581*

Flexibility Estimation and Control of Thermostatically Controlled Loads With Lock Time for Regulation Service. *Wang, P.*, +, *TSG July 2020 3221-3230*

Grid-Constrained Distributed Optimization for Frequency Control With Low-Voltage Flexibility. *Engels, J.*, +, *TSG Jan. 2020 612-622*

Optimal Combination of Frequency Control and Peak Shaving With Battery Storage Systems. *Engels, J.*, +, *TSG July 2020 3270-3279*

Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling. *Perroy, E.*, +, *TSG Jan. 2020 26-36*

Resilient Networked AC Microgrids Under Unbounded Cyber Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3785-3794*

Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. *Wu, Y.*, +, *TSG March 2020 1007-1017*

State Space Model of Aggregated Electric Vehicles for Frequency Regulation. *Wang, M.*, +, *TSG March 2020 981-994*

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A High-Accuracy Phasor Estimation Algorithm for PMU Calibration and Its Hardware Implementation. *Xu, S.*, +, *TSG July 2020 3372-3383*

Interpolated DFT-Based Identification of Sub-Synchronous Oscillation Parameters Using Synchrophasor Data. *Yang, X.*, +, *TSG May 2020 2662-2675*

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A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. *Yao, W.*, +, *TSG Jan. 2020 895-904*

Multi-View Convolutional Neural Network for Data Spoofing Cyber-Attack Detection in Distribution Synchrophasors. *Qiu, W.*, +, *TSG July 2020 3457-3468*

Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling. *Perroy, E.*, +, *TSG Jan. 2020 26-36*

Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

**Frequency response**

A Practical Secondary Frequency Control Strategy for Virtual Synchronous Generator. *Jiang, K.*, +, *TSG May 2020 2734-2736*

Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System. *Sanchez Gorostiza, F.*, +, *TSG Nov. 2020 5039-5050*

Design and Validation of a Wide Area Monitoring and Control System for Fast Frequency Response. *Hong, Q.*, +, *TSG July 2020 3394-3404*

Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J.*, +, *TSG Nov. 2020 4938-4948*

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A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. *Yao, W.*, +, *TSG Jan. 2020 895-904*

Distorted Stability Space and Instability Triggering Mechanism of EV Aggregation Delays in the Secondary Frequency Regulation of Electrical Grid-Electric Vehicle System. *Dong, C.*, +, *TSG Nov. 2020 5084-5098*

Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators. *Kunwar, A.*, +, *TSG May 2020 1942-1955*

Low-Frequency Stability Analysis of Inverter-Based Islanded Multiple-Bus AC Microgrids Based on Terminal Characteristics. *Cao, W.*, +, *TSG Sept. 2020 3662-3676*

Public Plug-in Electric Vehicles + Grid Data: Is a New Cyberattack Vector Viable?. *Acharya, S.*, +, *TSG Nov. 2020 5099-5113*

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A Learning-Based Power Management Method for Networked Microgrids Under Incomplete Information. *Zhang, Q.*, +, *TSG March 2020 1193-1204*

Double Deep Q-Learning-Based Distributed Operation of Battery Energy Storage System Considering Uncertainties. *Bui, Y.-H.*, +, *TSG Jan. 2020 457-469*

Stochastic Transactive Control for Electric Vehicle Aggregators Coordination: A Decentralized Approximate Dynamic Programming Approach. *Pan, Z.*, +, *TSG Sept. 2020 4261-4277*

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Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*

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Fault Section Identification in Smart Distribution Systems Using Multi-Source Data Based on Fuzzy Petri Nets. *Kiaei, L.*, +, *TSG Jan. 2020 74-83*

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A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*

A New and Fair Peer-to-Peer Energy Sharing Framework for Energy Buildings. *Cui, S.*, +, *TSG Sept. 2020 3817-3826*

- An Energy Sharing Game With Generalized Demand Bidding: Model and Properties. *Chen, Y.*, +, *TSG May 2020 2055-2066*
- Core-Selecting Mechanisms in Electricity Markets. *Karaca, O.*, +, *TSG May 2020 2604-2614*
- Demand-Side Management With Shared Energy Storage System in Smart Grid. *Jo, J.*, +, *TSG Sept. 2020 4466-4476*
- Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization. *Fu, Y.*, +, *TSG March 2020 1510-1525*
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- Enhancement of Distribution System Reliability: A Framework Based on Cournot Game Model. *Mohammadi, R.*, +, *TSG May 2020 2172-2181*
- Grid Influenced Peer-to-Peer Energy Trading. *Tushar, W.*, +, *TSG March 2020 1407-1418*
- Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*
- Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W.*, +, *TSG Sept. 2020 4105-4115*
- Operation of Distribution Network Considering Compressed Air Energy Storage Unit and Its Reactive Power Support Capability. *Guo, Z.*, +, *TSG July 2020 2954-2965*
- Robust Coordination Expansion Planning for Active Distribution Network in Deregulated Retail Power Market. *Huang, C.*, +, *TSG March 2020 1476-1488*
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- Attack Identification and Correction for PMU GPS Spoofing in Unbalanced Distribution Systems. *Zhang, Y.*, +, *TSG Jan. 2020 762-773*
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- Gradient methods**
- Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. *Qian, T.*, +, *TSG July 2020 3019-3030*
- Gradient-Based Multi-Area Distribution System State Estimation. *Zhou, X.*, +, *TSG Nov. 2020 5325-5338*
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- A Novel Graph-Based Energy Management System. *Dai, R.*, +, *TSG May 2020 1845-1853*
- A Sponsor Incentive Attack Scheme for Feeder Automation Systems. *Dai, Q.*, +, *TSG March 2020 1440-1452*
- A Unified Approach for Reliability Assessment of Critical Infrastructures Using Graph Theory and Entropy. *Iranpour, M.*, +, *TSG Nov. 2020 5184-5192*
- CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency. *Venkataramanan, V.*, +, *TSG March 2020 1055-1065*
- Erratum to "Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems" [Jul 20 3558-3569]. *Nan, L.*, +, *TSG Sept. 2020 4569*
- Flexible Machine Learning-Based Cyberattack Detection Using Spatio-temporal Patterns for Distribution Systems. *Cui, M.*, +, *TSG March 2020 1805-1808*
- Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*
- Graph-Based Faulted Line Identification Using Micro-PMU Data in Distribution Systems. *Zhang, Y.*, +, *TSG Sept. 2020 3982-3992*
- Methodology for Reliability Assessment of Smart Grid Considering Risk of Failure of Communication Architecture. *Zhu, W.*, +, *TSG Sept. 2020 4358-4365*
- Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*
- Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. *Liu, B.*, +, *TSG Sept. 2020 4345-4357*
- Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*
- Radiality Constraints for Resilient Reconfiguration of Distribution Systems: Formulation and Application to Microgrid Formation. *Lei, S.*, +, *TSG Sept. 2020 3944-3956*
- Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication. *Lai, J.*, +, *TSG July 2020 2746-2759*
- Graphics processing units**
- Full Parallel Power Flow Solution: A GPU-CPU-Based Vectorization Parallelization and Sparse Techniques for Newton-Raphson Implementation. *Su, X.*, +, *TSG May 2020 1833-1844*
- Greedy algorithms**
- A Lyapunov Optimization-Based Energy Management Strategy for Energy Hub With Energy Router. *Li, P.*, +, *TSG Nov. 2020 4860-4870*
- Grey systems**
- An Active Distribution Network Equivalent Derived From Large-Disturbance Simulations With Uncertainty. *Chaspierre, G.*, +, *TSG Nov. 2020 4749-4759*

## H

### H<sub>∞</sub> control

- H<sub>∞</sub>-Control of Grid-Connected Converters: Design, Objectives and Decentralized Stability Certificates. *Huang, L.*, +, *TSG Sept. 2020 3805-3816*
- Resilient H<sub>∞</sub> Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*

### Hardware-in-the loop simulation

- A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*
- A Novel Retrospect-Inspired Regime for Microgrid Real-Time Energy Scheduling With Heterogeneous Sources. *Jia, Y.*, +, *TSG Nov. 2020 4614-4625*
- Battery Model Parameterization Using Manufacturer Datasheet and Field Measurement for Real-Time HIL Applications. *Xie, F.*, +, *TSG May 2020 2396-2406*
- Decentralized Bidirectional Voltage Supporting Control for Multi-Mode Hybrid AC/DC Microgrid. *Yang, P.*, +, *TSG May 2020 2615-2626*
- Exploiting the Vulnerability of Relative Data Alignment in Phasor Data Concentrators to Time Synchronization Attacks. *Moussa, B.*, +, *TSG May 2020 2541-2551*
- Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhvatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*

**Harmonic distortion**

Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*

**Heat exchangers**

Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems. *Jabbari Ghadi, M.*, +, *TSG July 2020 2966-2979*

**Heat pumps**

An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*

**Hidden Markov models**

A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S.*, +, *TSG Nov. 2020 4916-4927*

Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*

Separation of Residential Space Cooling Usage From Smart Meter Data. *Liang, H.*, +, *TSG July 2020 3107-3118*

**Hierarchical systems**

Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.I.*, +, *TSG March 2020 1239-1252*

**Home automation**

A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. *Kong, W.*, +, *TSG Jan. 2020 148-160*

**Home computing**

A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. *Kong, W.*, +, *TSG Jan. 2020 148-160*

**HVAC**

A Joint Electrical and Thermodynamic Approach to HVAC Load Control. *Jazaeri, J.*, +, *TSG Jan. 2020 15-25*

A Priority-Based Control Strategy and Performance Bound for Aggregated HVAC-Based Load Shaping. *Hu, X.*, +, *TSG Sept. 2020 4133-4143*

A Supervised-Learning-Based Strategy for Optimal Demand Response of an HVAC System in a Multi-Zone Office Building. *Kim, Y.*, *TSG Sept. 2020 4212-4226*

Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*

Linearized Price-Responsive HVAC Controller for Optimal Scheduling of Smart Building Loads. *Ostadijafari, M.*, +, *TSG July 2020 3131-3145*

On the Round-Trip Efficiency of an HVAC-Based Virtual Battery. *Raman, N.S.*, +, *TSG Jan. 2020 403-410*

Separation of Residential Space Cooling Usage From Smart Meter Data. *Liang, H.*, +, *TSG July 2020 3107-3118*

**HVDC power converters**

High Frequency Transient Sparse Measurement-Based Fault Location for Complex DC Distribution Networks. *Jia, K.*, +, *TSG Jan. 2020 312-322*

**Hybrid power systems**

Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S.*, +, *TSG Nov. 2020 4818-4832*

Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*

**Hydraulic systems**

Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S.*, +, *TSG Nov. 2020 4818-4832*

**I****IEC standards**

Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*

**IEEE publishing**

Best Reviewers 2019. *TSG Jan. 2020 916*

**IEEE standards**

A Data-Driven Approach to Linearize Power Flow Equations Considering Measurement Noise. *Liu, Y.*, +, *TSG May 2020 2576-2587*

A High-Accuracy Phasor Estimation Algorithm for PMU Calibration and Its Hardware Implementation. *Xu, S.*, +, *TSG July 2020 3372-3383*

A Novel Affine Arithmetic Method With Missed the Triangular Domain With Uncertainties. *Ran, X.*, +, *TSG March 2020 1430-1439*

A Self-Adaptive Contractive Algorithm for Enhanced Dynamic Phasor Estimation. *Messina, F.*, +, *TSG May 2020 2367-2380*

Multi-Objective Adaptive Robust Voltage/VAR Control for High-PV Penetrated Distribution Networks. *Zhang, C.*, +, *TSG Nov. 2020 5288-5300*

Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*

Online PMU-Based Wide-Area Damping Control for Multiple Inter-Area Modes. *Zenelis, I.*, +, *TSG Nov. 2020 5451-5461*

Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*

Optimal Reconfiguration of Distribution Network Using  $\mu$  PMU Measurements: A Data-Driven Stochastic Robust Optimization. *Akrami, A.*, +, *TSG Jan. 2020 420-428*

Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*

Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. *Zhang, G.*, +, *TSG Nov. 2020 4700-4713*

Spatial-Temporal Reliability and Damage Assessment of Transmission Networks Under Hurricanes. *Zhang, H.*, +, *TSG March 2020 1044-1054*

**Image classification**

Intelligent Damage Classification and Estimation in Power Distribution Poles Using Unmanned Aerial Vehicles and Convolutional Neural Networks. *Hosseini, M.M.*, +, *TSG July 2020 3325-3333*

**Incentive schemes**

A Minimal Incentive-Based Demand Response Program With Self Reported Baseline Mechanism. *Muthirayan, D.*, +, *TSG May 2020 2195-2207*

**Indoor environment**

A Joint Electrical and Thermodynamic Approach to HVAC Load Control. *Jazaeri, J.*, +, *TSG Jan. 2020 15-25*

Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*

**Induction motor drives**

Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhvatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*

**Induction motors**

WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*

**Inference mechanisms**

A Learning-to-Infer Method for Real-Time Power Grid Multi-Line Outage Identification. *Zhao, Y.*, +, *TSG Jan. 2020 555-564*

Data-Driven Probabilistic Optimal Power Flow With Nonparametric Bayesian Modeling and Inference. *Sun, W.*, +, *TSG March 2020 1077-1090*

**Information filtering**

Dynamic State Estimation for Power Networks by Distributed Unscented Information Filter. *Yang, J.*, +, *TSG May 2020 2162-2171*

**Information theory**

Improving Supervised Phase Identification Through the Theory of Information Losses. *Foggo, B.*, +, *TSG May 2020 2337-2346*

**Inspection**

Detection of Defaulting Participants of Demand Response Based on Sparse Reconstruction. *Azuma, S.*, +, *TSG Jan. 2020 368-378*

**Insurance**

A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*

Enhancement of Distribution System Reliability: A Framework Based on Cournot Game Model. *Mohammadi, R.*, +, *TSG May 2020 2172-2181*

**Integer programming**

A Mixed Integer Conic Model for Distribution Expansion Planning: Mathuristic Approach. *Home-Ortiz, J.M.*, +, *TSG Sept. 2020 3932-3943*

A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*

- A Risk-Averse Conic Model for Networked Microgrids Planning With Reconfiguration and Reorganizations. *Cao, X.*, +, *TSG Jan. 2020 696-709*
- A Stochastic Multi-Commodity Logistic Model for Disaster Preparation in Distribution Systems. *Arif, A.*, +, *TSG Jan. 2020 565-576*
- Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y.*, +, *TSG Nov. 2020 4883-4890*
- An Efficient Robust Approach to the Day-Ahead Operation of an Aggregator of Electric Vehicles. *Porras, A.*, +, *TSG Nov. 2020 4960-4970*
- An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*
- An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*
- Auditing on Smart-Grid With Dynamic Traffic Flows: An Algorithmic Approach. *Nguyen, L.N.*, +, *TSG May 2020 2293-2302*
- Centralised and Distributed Optimization for Aggregated Flexibility Services Provision. *Olivella-Rosell, P.*, +, *TSG July 2020 3257-3269*
- Coordinated Planning of Transportation and Electric Power Networks With the Proliferation of Electric Vehicles. *Gan, W.*, +, *TSG Sept. 2020 4005-4016*
- Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation. *Jiang, Y.*, *TSG Jan. 2020 129-137*
- Day-Ahead Energy Management for Pelagic Island Microgrid Groups Considering Non-Integer-Hour Energy Transmission. *Sui, Q.*, +, *TSG Nov. 2020 5249-5259*
- Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*
- Demand Response Cooperative and Demand Charge. *Elkasrawy, A.*, +, *TSG Sept. 2020 4167-4175*
- Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems. *Sayed, A.R.*, +, *TSG May 2020 2092-2105*
- Enhancing Distribution System Resilience With Proactive Islanding and RCS-Based Fast Fault Isolation and Service Restoration. *Liu, J.*, +, *TSG May 2020 2381-2395*
- Hierarchical Distributed Voltage Optimization Method for HV and MV Distribution Networks. *Chai, Y.*, +, *TSG March 2020 968-980*
- Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*
- Linear Formulations for Topology-Variable-Based Distribution System Reliability Assessment Considering Switching Interruptions. *Jooshaki, M.*, +, *TSG Sept. 2020 4032-4043*
- Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*
- Operation of Distribution Network Considering Compressed Air Energy Storage Unit and Its Reactive Power Support Capability. *Guo, Z.*, +, *TSG July 2020 2954-2965*
- Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhvatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*
- Optimal Management of Transactive Distribution Electricity Markets With Co-Optimized Bidirectional Energy and Ancillary Service Exchanges. *Wu, Y.*, +, *TSG Nov. 2020 4650-4661*
- Optimal Participation of Residential Aggregators in Energy and Local Flexibility Markets. *Correa-Florez, C.A.*, +, *TSG March 2020 1644-1656*
- Optimal Switch Placement in Distribution Systems: A High-Accuracy MILP Formulation. *Shahbazian, A.*, +, *TSG Nov. 2020 5009-5018*
- Optimal Voltage Reference for Droop-Based DERs in Distribution Systems. *Hong, T.*, +, *TSG May 2020 2357-2366*
- PEV Fast-Charging Station Sizing and Placement in Coupled Transportation-Distribution Networks Considering Power Line Conditioning Capability. *Hashemian, S.N.*, +, *TSG Nov. 2020 4773-4783*
- Power Management in Active Distribution Systems Penetrated by Photovoltaic Inverters: A Data-Driven Robust Approach. *Mancilla-David, F.*, +, *TSG May 2020 2271-2280*
- Privacy-Preserving Collaborative Operation of Networked Microgrids With the Local Utility Grid Based on Enhanced Benders Decomposition. *Li, Z.*, +, *TSG May 2020 2638-2651*
- Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. *Arif, A.*, +, *TSG Jan. 2020 673-685*
- Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*
- Risk-Loss Coordinated Admissibility Assessment of Wind Generation for Integrated Electric-Gas Systems. *Wang, C.*, +, *TSG Sept. 2020 4454-4465*
- Robust Coordination of a Hybrid AC/DC Multi-Energy Ship Microgrid With Flexible Voyage and Thermal Loads. *Li, Z.*, +, *TSG July 2020 2782-2793*
- Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S.*, +, *TSG March 2020 1030-1043*
- Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. *Zhang, G.*, +, *TSG Nov. 2020 4700-4713*
- Smart Meter Data-Driven Customizing Price Design for Retailers. *Feng, C.*, +, *TSG May 2020 2043-2054*
- Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. *Wu, Y.*, +, *TSG March 2020 1007-1017*
- Stochastic Time-of-Use-Type Constraints for Uninterruptible Services. *Batista, A.*, +, *TSG Jan. 2020 229-232*
- Topology Identification in Distribution Systems Using Line Current Sensors: An MILP Approach. *Farajollahi, M.*, +, *TSG March 2020 1159-1170*
- Two-Stage Convexification-Based Optimal Electricity-Gas Flow. *Yang, L.*, +, *TSG March 2020 1465-1475*
- Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J.*, +, *TSG July 2020 3083-3094*
- Intelligent control**
- Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*
- Interconnected systems**
- Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*
- Dynamic State Estimation for Power Networks by Distributed Unscented Information Filter. *Yang, J.*, +, *TSG May 2020 2162-2171*
- Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020 391-402*
- Interference suppression**
- A High-Accuracy Phasor Estimation Algorithm for PMU Calibration and Its Hardware Implementation. *Xu, S.*, +, *TSG July 2020 3372-3383*
- Internet**
- iCASM: An Information-Centric Network Architecture for Wide Area Measurement Systems. *Ravikumar, G.*, +, *TSG July 2020 3418-3427*
- Internet of Things**
- A Data-Driven Approach for Generating Synthetic Load Patterns and Usage Habits. *Kabahji, S.E.*, +, *TSG Nov. 2020 4984-4995*
- Cyber Physical Security Analytics for Transactive Energy Systems. *Zhang, Y.*, +, *TSG March 2020 931-941*
- Establishment of Enhanced Load Modeling by Correlating With Occupancy Information. *Tang, Y.*, +, *TSG March 2020 1702-1713*
- On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. *Saad, A.*, +, *TSG Nov. 2020 5138-5150*
- Interpolation**
- Interpolated DFT-Based Identification of Sub-Synchronous Oscillation Parameters Using Synchrophasor Data. *Yang, X.*, +, *TSG May 2020 2662-2675*
- Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*
- Inverters**
- A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*

- A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances. *Razi, R.*, +, *TSG Sept. 2020 3795-3804*
- A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M.*, +, *TSG May 2020 2115-2124*
- Affine Arithmetic-Based Coordinated Interval Power Flow of Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TSG Sept. 2020 4116-4132*
- An Active Distribution Network Equivalent Derived From Large-Disturbance Simulations With Uncertainty. *Chaspierre, G.*, +, *TSG Nov. 2020 4749-4759*
- Closure to "Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems". *Alkaabi, S.S.*, +, *TSG March 2020 1813-1815*
- Deliverable Energy Flexibility Scheduling for Active Distribution Networks. *Oikonomou, K.*, +, *TSG Jan. 2020 655-664*
- Design of a Seamless Grid-Connected Inverter for Microgrid Applications. *Lo, K.*, +, *TSG Jan. 2020 194-202*
- Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. *Jalali, M.*, +, *TSG March 2020 1759-1770*
- Discussion on "Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems". *Khalid, M.*, *TSG March 2020 1812*
- Distributed Adaptive Robust Voltage/VAR Control With Network Partition in Active Distribution Networks. *Li, P.*, +, *TSG May 2020 2245-2256*
- Distributed Control Strategy Based on a Consensus Algorithm and on the Conservative Power Theory for Imbalance and Harmonic Sharing in 4-Wire Microgrids. *Burgos-Mellado, C.*, +, *TSG March 2020 1604-1619*
- Distributed Solution of Stochastic Volt/VAR Control in Radial Networks. *Nazir, F.U.*, +, *TSG Nov. 2020 5314-5324*
- Fault Current Mitigation and Voltage Support Provision by Microgrids With Synchronous Generators. *Liu, X.*, +, *TSG July 2020 2816-2831*
- Frequency Disturbance Triggered D-Axis Current Injection Scheme for Islanding Detection. *Ganivada, P.K.*, +, *TSG Nov. 2020 4587-4603*
- Hierarchically-Coordinated Voltage/VAR Control of Distribution Networks Using PV Inverters. *Zhang, C.*, +, *TSG July 2020 2942-2953*
- Line Impedance Cooperative Stability Region Identification Method for Grid-Tied Inverters Under Weak Grids. *Rui, W.*, +, *TSG July 2020 2856-2866*
- Low-Frequency Stability Analysis of Inverter-Based Islanded Multiple-Bus AC Microgrids Based on Terminal Characteristics. *Cao, W.*, +, *TSG Sept. 2020 3662-3676*
- Microgrid Protection and Control Schemes for Seamless Transition to Island and Grid Synchronization. *Vukojevic, A.*, +, *TSG July 2020 2845-2855*
- Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions. *Peng, Y.*, +, *TSG March 2020 1330-1342*
- Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. *Raman, G.*, +, *TSG July 2020 2805-2815*
- Power Management in Active Distribution Systems Penetrated by Photovoltaic Inverters: A Data-Driven Robust Approach. *Mancilla-David, F.*, +, *TSG May 2020 2271-2280*
- Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*
- WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*
- Investment**
- A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*
- A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs. *Yang, J.*, +, *TSG March 2020 1724-1736*
- An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems. *Liu, W.*, +, *TSG Jan. 2020 541-554*
- Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*
- Optimal Combination of Frequency Control and Peak Shaving With Battery Storage Systems. *Engels, J.*, +, *TSG July 2020 3270-3279*
- Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N.*, +, *TSG March 2020 1771-1780*
- Optimal Switch Placement in Distribution Systems: A High-Accuracy MILP Formulation. *Shahbazian, A.*, +, *TSG Nov. 2020 5009-5018*
- Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making. *Junlakarn, S.*, +, *TSG Sept. 2020 3970-3981*
- Robust Coordination Expansion Planning for Active Distribution Network in Deregulated Retail Power Market. *Huang, C.*, +, *TSG March 2020 1476-1488*
- Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J.*, +, *TSG Nov. 2020 4938-4948*
- Virtual Energy Storage Sharing and Capacity Allocation. *Zhao, D.*, +, *TSG March 2020 1112-1123*
- IP networks**
- iCASM: An Information-Centric Network Architecture for Wide Area Measurement Systems. *Ravikumar, G.*, +, *TSG July 2020 3418-3427*
- Iterative methods**
- A Data-Driven Approach to Linearize Power Flow Equations Considering Measurement Noise. *Liu, Y.*, +, *TSG May 2020 2576-2587*
- A Fast Algorithm for Optimal Power Scheduling of Large-Scale Appliances With Temporally Spatially Coupled Constraints. *Guo, Z.*, +, *TSG March 2020 1136-1146*
- A Mixed Integer Conic Model for Distribution Expansion Planning: Matheuristic Approach. *Home-Ortiz, J.M.*, +, *TSG Sept. 2020 3932-3943*
- A Robust Statistical Approach to Distributed Power System State Estimation With Bad Data. *Ho, C.H.*, +, *TSG Jan. 2020 517-527*
- An Integrated Scheme for Online Dynamic Security Assessment Based on Partial Mutual Information and Iterated Random Forest. *Liu, S.*, +, *TSG July 2020 3606-3619*
- An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*
- Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*
- Decentralized Robust State Estimation of Active Distribution Grids Incorporating Microgrids Based on PMU Measurements. *Lin, C.*, +, *TSG Jan. 2020 810-820*
- Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. *Sadeghianpourhamami, N.*, +, *TSG Jan. 2020 203-214*
- Detection of Defaulting Participants of Demand Response Based on Sparse Reconstruction. *Azuma, S.*, +, *TSG Jan. 2020 368-378*
- Distributed Outage Detection in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG Nov. 2020 5124-5137*
- Dynamic State Estimation for Power Networks by Distributed Unscented Information Filter. *Yang, J.*, +, *TSG May 2020 2162-2171*
- Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization. *Fu, Y.*, +, *TSG March 2020 1510-1525*
- Feasible Power-Flow Solution Analysis of DC Microgrids Under Droop Control. *Liu, Z.*, +, *TSG July 2020 2771-2781*
- Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*
- Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S.*, +, *TSG Nov. 2020 4818-4832*
- Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. *Elsayed, M.*, +, *TSG March 2020 1091-1099*
- Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG May 2020 2498-2510*
- PMU-Based Distributed Non-Iterative Algorithm for Real-Time Voltage Stability Monitoring. *Guddanti, K.P.*, +, *TSG Nov. 2020 5203-5215*

Power and Transport Nexus: Routing Electric Vehicles to Promote Renewable Power Integration. *Zhang, H.*, +, *TSG July 2020 3291-3301*

Power Flow Solvers for Direct Current Networks. *Taheri, S.*, +, *TSG Jan. 2020 634-643*

Privacy-Preserving Collaborative Operation of Networked Microgrids With the Local Utility Grid Based on Enhanced Benders Decomposition. *Li, Z.*, +, *TSG May 2020 2638-2651*

Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid. *Kong, P.*, *TSG May 2020 2417-2426*

Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. *Wang, Y.*, +, *TSG March 2020 1286-1295*

Robust Consensus-Based Distributed Energy Management for Microgrids With Packet Losses Tolerance. *Duan, J.*, +, *TSG Jan. 2020 281-290*

Transactive Energy Based Aggregation of Prosumers as a Retailer. *Xiao, Y.*, +, *TSG July 2020 3302-3312*

## J

### Jacobian matrices

A Data-Driven Approach to Linearize Power Flow Equations Considering Measurement Noise. *Liu, Y.*, +, *TSG May 2020 2576-2587*

A Geometric Analysis of Power System Loadability Regions. *Weng, Y.*, +, *TSG July 2020 3580-3592*

A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S.*, +, *TSG May 2020 2140-2150*

Full Parallel Power Flow Solution: A GPU-CPU-Based Vectorization Parallelization and Sparse Techniques for Newton–Raphson Implementation. *Su, X.*, +, *TSG May 2020 1833-1844*

### Java

A Full Decentralized Multi-Agent Service Restoration for Distribution Network With DGs. *Li, W.*, +, *TSG March 2020 1100-1111*

## L

### Learning (artificial intelligence)

A Data-Driven Approach for Generating Synthetic Load Patterns and Usage Habits. *Kababji, S.E.*, +, *TSG Nov. 2020 4984-4995*

A Learning-Based Power Management Method for Networked Microgrids Under Incomplete Information. *Zhang, Q.*, +, *TSG March 2020 1193-1204*

A Learning-to-Infer Method for Real-Time Power Grid Multi-Line Outage Identification. *Zhao, Y.*, +, *TSG Jan. 2020 555-564*

A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*

A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. *Kong, W.*, +, *TSG Jan. 2020 148-160*

A Robust Spatiotemporal Forecasting Framework for Photovoltaic Generation. *Chai, S.*, +, *TSG Nov. 2020 5370-5382*

A Supervised-Learning-Based Strategy for Optimal Demand Response of an HVAC System in a Multi-Zone Office Building. *Kim, Y.*, *TSG Sept. 2020 4212-4226*

Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020 1171-1182*

Automating the Verification of the Low Voltage Network Cables and Topologies. *Mokhtar, M.*, +, *TSG March 2020 1657-1666*

Batch-Constrained Reinforcement Learning for Dynamic Distribution Network Reconfiguration. *Gao, Y.*, +, *TSG Nov. 2020 5357-5369*

Battery Model Parameterization Using Manufacturer Datasheet and Field Measurement for Real-Time HIL Applications. *Xie, F.*, +, *TSG May 2020 2396-2406*

Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H.*, +, *TSG May 2020 2427-2439*

Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models. *Kaselimi, M.*, +, *TSG July 2020 3054-3067*

Coordination of Electric Vehicle Charging Through Multiagent Reinforcement Learning. *Silva, F.L.D.*, +, *TSG May 2020 2347-2356*

Cyber Physical Security Analytics for Transactive Energy Systems. *Zhang, Y.*, +, *TSG March 2020 931-941*

Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F.*, +, *TSG May 2020 2476-2486*

Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*

Deep Learning Detection of Electricity Theft Cyber-Attacks in Renewable Distributed Generation. *Ismail, M.*, +, *TSG July 2020 3428-3437*

Deep Learning-Based Real-Time Building Occupancy Detection Using AMI Data. *Feng, C.*, +, *TSG Sept. 2020 4490-4501*

Deep Reinforcement Learning for EV Charging Navigation by Coordinating Smart Grid and Intelligent Transportation System. *Qian, T.*, +, *TSG March 2020 1714-1723*

Deep Reinforcement Learning for Strategic Bidding in Electricity Markets. *Ye, Y.*, +, *TSG March 2020 1343-1355*

Deep Reinforcement Learning Method for Demand Response Management of Interruptible Load. *Wang, B.*, +, *TSG July 2020 3146-3155*

Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*

Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. *Sadeghianpourhamami, N.*, +, *TSG Jan. 2020 203-214*

Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. *Jalali, M.*, +, *TSG March 2020 1759-1770*

Double Deep Q-Learning-Based Distributed Operation of Battery Energy Storage System Considering Uncertainties. *Bui, Y.-H.*, +, *TSG Jan. 2020 457-469*

Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. *Qian, T.*, +, *TSG July 2020 3019-3030*

Fast Calculation of Probabilistic Power Flow: A Model-Based Deep Learning Approach. *Yang, Y.*, +, *TSG May 2020 2235-2244*

Flexible Machine Learning-Based Cyberattack Detection Using Spatio-temporal Patterns for Distribution Systems. *Cui, M.*, +, *TSG March 2020 1805-1808*

Frequency Disturbance Event Detection Based on Synchrophasors and Deep Learning. *Wang, W.*, +, *TSG July 2020 3593-3605*

Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*

Improving Probabilistic Load Forecasting Using Quantile Regression NN With Skip Connections. *Zhang, W.*, +, *TSG Nov. 2020 5442-5450*

Improving Supervised Phase Identification Through the Theory of Information Losses. *Foggo, B.*, +, *TSG May 2020 2337-2346*

Intelligent Damage Classification and Estimation in Power Distribution Poles Using Unmanned Aerial Vehicles and Convolutional Neural Networks. *Hosseini, M.M.*, +, *TSG July 2020 3325-3333*

Intelligent Multi-Microgrid Energy Management Based on Deep Neural Network and Model-Free Reinforcement Learning. *Du, Y.*, +, *TSG March 2020 1066-1076*

Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security. *Roberts, C.*, +, *TSG Jan. 2020 749-761*

Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. *Elsayed, M.*, +, *TSG March 2020 1091-1099*

Model-Free Data Authentication for Cyber Security in Power Systems. *Liu, S.*, +, *TSG Sept. 2020 4565-4568*

Model-Free Real-Time Autonomous Control for a Residential Multi-Energy System Using Deep Reinforcement Learning. *Ye, Y.*, +, *TSG July 2020 3068-3082*

Multi-Task Logistic Low-Ranked Dirty Model for Fault Detection in Power Distribution System. *Gilanifar, M.*, +, *TSG Jan. 2020 786-796*

Multiple Kernel Learning-Based Transfer Regression for Electric Load Forecasting. *Wu, D.*, +, *TSG March 2020 1183-1192*

Online Learning for Network Constrained Demand Response Pricing in Distribution Systems. *Mieth, R.*, +, *TSG May 2020 2563-2575*

Real-Time Privacy-Preserving Data Release for Smart Meters. *Shateri, M.*, +, *TSG Nov. 2020 5174-5183*

Real-Time Residential Demand Response. *Li, H.*, +, *TSG Sept. 2020 4144-4154*

Reinforced Deterministic and Probabilistic Load Forecasting via  $Q$ -Learning Dynamic Model Selection. *Feng, C.*, +, *TSG March 2020 1377-1386*

Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*

Safe Off-Policy Deep Reinforcement Learning Algorithm for Volt-VAR Control in Power Distribution Systems. *Wang, W.*, +, *TSG July 2020 3008-3018*

Stochastic Transactive Control for Electric Vehicle Aggregators Coordination: A Decentralized Approximate Dynamic Programming Approach. *Pan, Z.*, +, *TSG Sept. 2020 4261-4277*

Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. *Dobbe, R.*, +, *TSG March 2020 1296-1306*

Transfer Learning for Non-Intrusive Load Monitoring. *D'Incecco, M.*, +, *TSG March 2020 1419-1429*

Two-Stage WECC Composite Load Modeling: A Double Deep  $Q$ -Learning Networks Approach. *Wang, X.*, +, *TSG Sept. 2020 4331-4344*

Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*

Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*

WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*

Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*

#### Learning systems

Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System. *Sanchez Gorostiza, F.*, +, *TSG Nov. 2020 5039-5050*

#### Least squares approximations

A High-Accuracy Phasor Estimation Algorithm for PMU Calibration and Its Hardware Implementation. *Xu, S.*, +, *TSG July 2020 3372-3383*

A Robust Statistical Approach to Distributed Power System State Estimation With Bad Data. *Ho, C.H.*, +, *TSG Jan. 2020 517-527*

An Active Distribution Network Equivalent Derived From Large-Disturbance Simulations With Uncertainty. *Chaspierre, G.*, +, *TSG Nov. 2020 4749-4759*

Dynamic Distribution State Estimation Using Synchrophasor Data. *Song, J.*, +, *TSG Jan. 2020 821-831*

Enhance High Impedance Fault Detection and Location Accuracy via  $\mu$ -PMUs. *Cui, Q.*, +, *TSG Jan. 2020 797-809*

Gradient-Based Multi-Area Distribution System State Estimation. *Zhou, X.*, +, *TSG Nov. 2020 5325-5338*

Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*

Matrix Completion for Low-Observability Voltage Estimation. *Donti, P.L.*, +, *TSG May 2020 2520-2530*

#### Linear matrix inequalities

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*

#### Linear programming

A Geometric Analysis of Power System Loadability Regions. *Weng, Y.*, +, *TSG July 2020 3580-3592*

A Stochastic Multi-Commodity Logistic Model for Disaster Preparation in Distribution Systems. *Arif, A.*, +, *TSG Jan. 2020 565-576*

An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*

Characterizing the Reserve Provision Capability Area of Active Distribution Networks: A Linear Robust Optimization Method. *Kalantar-Neyestanaki, M.*, +, *TSG May 2020 2464-2475*

Coordinated Planning of Transportation and Electric Power Networks With the Proliferation of Electric Vehicles. *Gan, W.*, +, *TSG Sept. 2020 4005-4016*

Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation. *Jiang, Y.*, *TSG Jan. 2020 129-137*

Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*

Demand Response Cooperative and Demand Charge. *Elkasrawy, A.*, +, *TSG Sept. 2020 4167-4175*

Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization. *Fu, Y.*, +, *TSG March 2020 1510-1525*

Exploiting the Vulnerability of Relative Data Alignment in Phasor Data Concentrators to Time Synchronization Attacks. *Moussa, B.*, +, *TSG May 2020 2541-2551*

Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*

Linear Formulations for Topology-Variable-Based Distribution System Reliability Assessment Considering Switching Interruptions. *Jooshaki, M.*, +, *TSG Sept. 2020 4032-4043*

Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*

Optimal Participation of Residential Aggregators in Energy and Local Flexibility Markets. *Correa-Florez, C.A.*, +, *TSG March 2020 1644-1656*

Optimal Switch Placement in Distribution Systems: A High-Accuracy MILP Formulation. *Shahbazian, A.*, +, *TSG Nov. 2020 5009-5018*

Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. *He, R.*, +, *TSG Sept. 2020 3763-3773*

Robust Coordination of a Hybrid AC/DC Multi-Energy Ship Microgrid With Flexible Voyage and Thermal Loads. *Li, Z.*, +, *TSG July 2020 2782-2793*

Smart Meter Data-Driven Customizing Price Design for Retailers. *Feng, C.*, +, *TSG May 2020 2043-2054*

Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. *Wu, Y.*, +, *TSG March 2020 1007-1017*

Stochastic Time-of-Use-Type Constraints for Uninterruptible Services. *Batista, A.*, +, *TSG Jan. 2020 229-232*

Topology Identification in Distribution Systems Using Line Current Sensors: An MILP Approach. *Farajollahi, M.*, +, *TSG March 2020 1159-1170*

#### Linear quadratic control

Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*

#### Linear systems

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

#### Linearization techniques

Linearized Price-Responsive HVAC Controller for Optimal Scheduling of Smart Building Loads. *Ostadijafari, M.*, +, *TSG July 2020 3131-3145*

#### Load (electric)

A Data-Driven Pivot-Point-Based Time-Series Feeder Load Disaggregation Method. *Wang, J.*, +, *TSG Nov. 2020 5396-5406*

A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*

Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*

Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators. *Kunwar, A.*, +, *TSG May 2020 1942-1955*

Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. *Wang, S.*, +, *TSG May 2020 2709-2721*

Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*

WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*

#### Load dispatching

A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. *Kong, W.*, +, *TSG Jan. 2020 148-160*  
 Constrained Thompson Sampling for Real-Time Electricity Pricing With Grid Reliability Constraints. *Tucker, N.*, +, *TSG Nov. 2020 4971-4983*

#### Load distribution

Data-Driven Distribution System Load Modeling for Quasi-Static Time-Series Simulation. *Zhu, X.*, +, *TSG March 2020 1556-1565*  
 Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*

#### Load flow

A Data-Driven Approach to Linearize Power Flow Equations Considering Measurement Noise. *Liu, Y.*, +, *TSG May 2020 2576-2587*  
 A Fast Adequacy Analysis for Radial Distribution Networks Considering Reconfiguration and DGs. *Arefi, A.*, +, *TSG Sept. 2020 3896-3909*  
 A Geometric Analysis of Power System Loadability Regions. *Weng, Y.*, +, *TSG July 2020 3580-3592*  
 A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. *Zhao, H.*, +, *TSG May 2020 2303-2312*  
 A Learning-to-Infer Method for Real-Time Power Grid Multi-Line Outage Identification. *Zhao, Y.*, +, *TSG Jan. 2020 555-564*  
 A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*  
 A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data. *Power, T.*, +, *TSG May 2020 2511-2519*  
 A Novel Affine Arithmetic Method With Missed the Triangular Domain With Uncertainties. *Ran, X.*, +, *TSG March 2020 1430-1439*  
 A Novel Graph-Based Energy Management System. *Dai, R.*, +, *TSG May 2020 1845-1853*  
 A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*  
 A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S.*, +, *TSG May 2020 2140-2150*  
 Affine Arithmetic-Based Coordinated Interval Power Flow of Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TSG Sept. 2020 4116-4132*  
 An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*  
 CAsE: Concurrent Contingency Analysis-Based Security Metric Deployment for the Smart Grid. *Akaber, P.*, +, *TSG May 2020 2676-2687*  
 Chance-Constrained Frequency Regulation with Energy Storage Systems in Distribution Networks. *Sun, Y.*, +, *TSG Jan. 2020 215-228*  
 Characterizing the Reserve Provision Capability Area of Active Distribution Networks: A Linear Robust Optimization Method. *Kalantar-Neyestanaki, M.*, +, *TSG May 2020 2464-2475*  
 Convex Relaxation of Grid-Connected Energy Storage System Models With Complementarity Constraints in DC OPF. *Garifi, K.*, +, *TSG Sept. 2020 4070-4079*  
 Data-Driven Probabilistic Optimal Power Flow With Nonparametric Bayesian Modeling and Inference. *Sun, W.*, +, *TSG March 2020 1077-1090*  
 Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. *Lin, C.*, +, *TSG May 2020 2531-2540*  
 Decentralized Cooperative Optimal Power Flow of Multiple Interconnected Microgrids via Negotiation. *Li, F.*, +, *TSG Sept. 2020 3827-3836*  
 Detection and Mitigation of Cyber Attacks on Voltage Stability Monitoring of Smart Grids. *Ghafouri, M.*, +, *TSG Nov. 2020 5227-5238*  
 Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*  
 Distribution Network Marginal Costs: Enhanced AC OPF Including Transformer Degradation. *Andrianesis, P.*, +, *TSG Sept. 2020 3910-3920*

Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems. *Sayed, A.R.*, +, *TSG May 2020 2092-2105*  
 Dynamic Distribution State Estimation Using Synchrophasor Data. *Song, J.*, +, *TSG Jan. 2020 821-831*  
 Evaluating Feasibility Within Power Flow. *Jereminov, M.*, +, *TSG July 2020 3522-3534*  
 Fast Calculation of Probabilistic Power Flow: A Model-Based Deep Learning Approach. *Yang, Y.*, +, *TSG May 2020 2235-2244*  
 Feasible Power-Flow Solution Analysis of DC Microgrids Under Droop Control. *Liu, Z.*, +, *TSG July 2020 2771-2781*  
 Full Parallel Power Flow Solution: A GPU-CPU-Based Vectorization Parallelization and Sparse Techniques for Newton-Raphson Implementation. *Su, X.*, +, *TSG May 2020 1833-1844*  
 Gradient-Based Multi-Area Distribution System State Estimation. *Zhou, X.*, +, *TSG Nov. 2020 5325-5338*  
 Graphical Models in Meshed Distribution Grids: Topology Estimation, Change Detection & Limitations. *Deka, D.*, +, *TSG Sept. 2020 4299-4310*  
 Hierarchical Distributed Voltage Optimization Method for HV and MV Distribution Networks. *Chai, Y.*, +, *TSG March 2020 968-980*  
 Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*  
 Linearized Hybrid Stochastic/Robust Scheduling of Active Distribution Networks Encompassing PVs. *Baharvandi, A.*, +, *TSG Jan. 2020 357-367*  
 Matrix Completion for Low-Observability Voltage Estimation. *Donti, P.L.*, +, *TSG May 2020 2520-2530*  
 Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements. *Ramapuram Matavalam, A.R.*, +, *TSG Jan. 2020 873-883*  
 On the Fairness of PV Curtailment Schemes in Residential Distribution Networks. *Liu, M.Z.*, +, *TSG Sept. 2020 4502-4512*  
 Online Learning for Network Constrained Demand Response Pricing in Distribution Systems. *Mieth, R.*, +, *TSG May 2020 2563-2575*  
 Operation of Distribution Network Considering Compressed Air Energy Storage Unit and Its Reactive Power Support Capability. *Guo, Z.*, +, *TSG July 2020 2954-2965*  
 Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*  
 Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. *Liu, B.*, +, *TSG Sept. 2020 4345-4357*  
 Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. *Raman, G.*, +, *TSG July 2020 2805-2815*  
 Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhvatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*  
 Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Lv, S.*, +, *TSG May 2020 1854-1865*  
 Optimal Switch Placement in Distribution Systems: A High-Accuracy MILP Formulation. *Shahbazian, A.*, +, *TSG Nov. 2020 5009-5018*  
 PMU-Based Distributed Non-Iterative Algorithm for Real-Time Voltage Stability Monitoring. *Guddanti, K.P.*, +, *TSG Nov. 2020 5203-5215*  
 Power and Transport Nexus: Routing Electric Vehicles to Promote Renewable Power Integration. *Zhang, H.*, +, *TSG July 2020 3291-3301*  
 Power Flow Solvers for Direct Current Networks. *Taheri, S.*, +, *TSG Jan. 2020 634-643*  
 Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*  
 Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S.*, +, *TSG Sept. 2020 3860-3870*  
 Quantitative Evaluations of Uncertainties in Multivariate Operations of Microgrids. *Wang, H.*, +, *TSG July 2020 2892-2903*  
 Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method. *Xu, Y.*, +, *TSG March 2020 1593-1603*  
 Separating Feeder Demand Into Components Using Substation, Feeder, and Smart Meter Measurements. *Ledva, G.S.*, +, *TSG July 2020 3280-3290*



Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*

Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*

Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. *Safdarian, F.*, +, *TSG Sept. 2020 4544-4554*

Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*

Tracing Power With Circuit Theory. *Chen, Y.C.*, +, *TSG Jan. 2020 138-147*

Two-Stage Convexification-Based Optimal Electricity-Gas Flow. *Yang, L.*, +, *TSG March 2020 1465-1475*

Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*

#### Load flow control

Deliverable Energy Flexibility Scheduling for Active Distribution Networks. *Oikonomou, K.*, +, *TSG Jan. 2020 655-664*

Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*

Model-Free Optimal Voltage Phasor Regulation in Unbalanced Distribution Systems. *Sankur, M.D.*, +, *TSG Jan. 2020 884-894*

Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*

Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.L.*, +, *TSG March 2020 1239-1252*

Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. *Dobbe, R.*, +, *TSG March 2020 1296-1306*

#### Load forecasting

A Hybrid Distribution Feeder Long-Term Load Forecasting Method Based on Sequence Prediction. *Dong, M.*, +, *TSG Jan. 2020 470-482*

A Methodological Framework to support Load Forecast Error Assessment in Local Energy Markets. *Schreck, S.*, +, *TSG July 2020 3212-3220*

Aggregation of Multi-Scale Experts for Bottom-Up Load Forecasting. *Goehry, B.*, +, *TSG May 2020 1895-1904*

Chance-Constrained Optimization of Energy Storage Capacity for Microgrids. *Yahya Soltani, N.*, +, *TSG July 2020 2760-2770*

Characterizing the Reserve Provision Capability Area of Active Distribution Networks: A Linear Robust Optimization Method. *Kalantar-Neyestanaki, M.*, +, *TSG May 2020 2464-2475*

Combining Probability Density Forecasts for Power Electrical Loads. *Li, T.*, +, *TSG March 2020 1679-1690*

Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*

Deep-Based Conditional Probability Density Function Forecasting of Residential Loads. *Afrasiabi, M.*, +, *TSG July 2020 3646-3657*

Generation Expansion Planning Considering the Rehabilitation of Aging Generating Units. *Farhoumandi, M.*, +, *TSG July 2020 3384-3393*

Improving Probabilistic Load Forecasting Using Quantile Regression NN With Skip Connections. *Zhang, W.*, +, *TSG Nov. 2020 5442-5450*

Multiple Kernel Learning-Based Transfer Regression for Electric Load Forecasting. *Wu, D.*, +, *TSG March 2020 1183-1192*

Reinforced Deterministic and Probabilistic Load Forecasting via  $Q$ -Learning Dynamic Model Selection. *Feng, C.*, +, *TSG March 2020 1377-1386*

Wavelet-Based Decompositions in Probabilistic Load Forecasting. *Alfieri, L.*, +, *TSG March 2020 1367-1376*

#### Load management

A Block-of-Use Electricity Retail Pricing Approach Based on the Customer Load Profile. *Ma, Z.*, +, *TSG March 2020 1500-1509*

Risk-Averse Model Predictive Control Design for Battery Energy Storage Systems. *Rosewater, D.*, +, *TSG May 2020 2014-2022*

Two-Stage WECC Composite Load Modeling: A Double Deep  $Q$ -Learning Networks Approach. *Wang, X.*, +, *TSG Sept. 2020 4331-4344*

#### Load regulation

A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. *Yao, W.*, +, *TSG Jan. 2020 895-904*

A Joint Electrical and Thermodynamic Approach to HVAC Load Control. *Jazaeri, J.*, +, *TSG Jan. 2020 15-25*

A Novel Domestic Electric Water Heater Control Method. *Xiang, S.*, +, *TSG July 2020 3246-3256*

A Novel Scheduling Strategy for Controllable Loads With Power-Efficiency Characteristics. *Wei, F.*, +, *TSG May 2020 2151-2161*

Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control. *Shabshab, S.C.*, +, *TSG May 2020 1917-1927*

Detection of Defaulting Participants of Demand Response Based on Sparse Reconstruction. *Azuma, S.*, +, *TSG Jan. 2020 368-378*

Deterministic Dynamic State Estimation-Based Optimal LFC for Interconnected Power Systems Using Unknown Input Observer. *Haes Alhelou, H.*, +, *TSG March 2020 1582-1592*

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*

Flexibility Estimation and Control of Thermostatically Controlled Loads With Lock Time for Regulation Service. *Wang, P.*, +, *TSG July 2020 3221-3230*

Forming a Reliable Hybrid Microgrid Using Electric Spring Coupled With Non-Sensitive Loads and ESS. *Zhang, G.*, +, *TSG July 2020 2867-2879*

Hierarchical Scheduling of Aggregated TCL Flexibility for Transactive Energy in Power Systems. *Song, M.*, +, *TSG May 2020 2452-2463*

Hierarchically-Coordinated Voltage/VAR Control of Distribution Networks Using PV Inverters. *Zhang, C.*, +, *TSG July 2020 2942-2953*

Stochastic Time-of-Use-Type Constraints for Uninterruptible Services. *Batista, A.*, +, *TSG Jan. 2020 229-232*

Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J.*, +, *TSG Nov. 2020 4938-4948*

#### Load shedding

A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. *Yao, W.*, +, *TSG Jan. 2020 895-904*

Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020 1171-1182*

Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. *Salimi, M.*, +, *TSG Sept. 2020 4390-4402*

MDP-Based Distribution Network Reconfiguration With Renewable Distributed Generation: Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG July 2020 3620-3631*

Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*

Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*

#### Logistics

A Stochastic Multi-Commodity Logistic Model for Disaster Preparation in Distribution Systems. *Arif, A.*, +, *TSG Jan. 2020 565-576*

Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. *Arif, A.*, +, *TSG Jan. 2020 673-685*

#### Long Term Evolution

A New Approach to Reliability Assessment and Improvement of Synchronous Communications in Smart Grids. *Seyedi, Y.*, +, *TSG Sept. 2020 4415-4426*

#### Losses

Distributed Adaptive Robust Voltage/VAR Control With Network Partition in Active Distribution Networks. *Li, P.*, +, *TSG May 2020 2245-2256*

#### Low-pass filters

A Practical Secondary Frequency Control Strategy for Virtual Synchronous Generator. *Jiang, K.*, +, *TSG May 2020 2734-2736*

Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

#### Lyapunov methods

A Lyapunov Optimization-Based Energy Management Strategy for Energy Hub With Energy Router. *Li, P.*, +, *TSG Nov. 2020 4860-4870*

Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*

Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020 37-47*

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

Distributed Optimal Control of Energy Storages in a DC Microgrid With Communication Delay. *Shi, M.*, +, *TSG May 2020 2033-2042*

Distributed Periodic Event-Triggered Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. *Fan, B.*, +, *TSG Jan. 2020 577-589*

Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults. *Dehkordi, N.M.*, +, *TSG May 2020 2699-2708*

Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*

Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*

Optimized Autonomous Operation Control to Maintain the Frequency, Voltage and Accurate Power Sharing for DGs in Islanded Systems. *Sun, L.*, +, *TSG Sept. 2020 3885-3895*

Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*

Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication. *Lai, J.*, +, *TSG July 2020 2746-2759*

Voltage Regulation of DC-Microgrid With PV and Battery. *Sun, J.*, +, *TSG Nov. 2020 4662-4675*

## M

#### Machine control

Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhavatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*

#### Magnetic storms

A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*

#### Maintenance engineering

Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. *Ding, T.*, +, *TSG Nov. 2020 4795-4808*

Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. *Arif, A.*, +, *TSG Jan. 2020 673-685*

Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. *Zhang, G.*, +, *TSG Nov. 2020 4700-4713*

#### Markov processes

A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*

A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*

A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data. *Power, T.*, +, *TSG May 2020 2511-2519*

CASeS: Concurrent Contingency Analysis-Based Security Metric Deployment for the Smart Grid. *Akaber, P.*, +, *TSG May 2020 2676-2687*

Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H.*, +, *TSG May 2020 2427-2439*

Deep Reinforcement Learning for EV Charging Navigation by Coordinating Smart Grid and Intelligent Transportation System. *Qian, T.*, +, *TSG March 2020 1714-1723*

Deep Reinforcement Learning Method for Demand Response Management of Interruptible Load. *Wang, B.*, +, *TSG July 2020 3146-3155*

Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*

Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. *Sadeghianpourhamami, N.*, +, *TSG Jan. 2020 203-214*

Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*

Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG May 2020 2498-2510*

MDP-Based Distribution Network Reconfiguration With Renewable Distributed Generation: Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG July 2020 3620-3631*

Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. *He, R.*, +, *TSG Sept. 2020 3763-3773*

Safe Off-Policy Deep Reinforcement Learning Algorithm for Volt-VAR Control in Power Distribution Systems. *Wang, W.*, +, *TSG July 2020 3008-3018*

State Space Model of Aggregated Electric Vehicles for Frequency Regulation. *Wang, M.*, +, *TSG March 2020 981-994*

Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*

#### Mathematical programming

An Interconnected Microgrids-Based Transactive Energy System With Multiple Electric Springs. *Liang, L.*, +, *TSG Jan. 2020 184-193*

Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization. *Fu, Y.*, +, *TSG March 2020 1510-1525*

Linear Formulations for Topology-Variable-Based Distribution System Reliability Assessment Considering Switching Interruptions. *Jooshaki, M.*, +, *TSG Sept. 2020 4032-4043*

Power System Parameter Attack for Financial Profits in Electricity Markets. *Xu, H.*, +, *TSG July 2020 3438-3446*

Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. *Wang, Y.*, +, *TSG March 2020 1286-1295*

#### Matlab

A Zero-Free Event-Triggered Secondary Control for AC Microgrids. *Abdolemaleki, B.*, +, *TSG May 2020 1905-1916*

Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. *Afshari, A.*, +, *TSG May 2020 1866-1879*

Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020 37-47*

Optimal Voltage Reference for Droop-Based DERs in Distribution Systems. *Hong, T.*, +, *TSG May 2020 2357-2366*

#### Matrix algebra

A Fast Adequacy Analysis for Radial Distribution Networks Considering Reconfiguration and DGs. *Arefi, A.*, +, *TSG Sept. 2020 3896-3909*

Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

Fog-Computing-Based Short-Circuit Diagnosis Scheme. *Tong, J.*, +, *TSG July 2020 3359-3371*

Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*

Line Impedance Cooperative Stability Region Identification Method for Grid-Tied Inverters Under Weak Grids. *Rui, W.*, +, *TSG July 2020 2856-2866*

- Matrix Completion for Low-Observability Voltage Estimation. *Donti, P.L.*, +, *TSG May 2020 2520-2530*
- Online Measurement-Based Estimation of Dynamic System State Matrix in Ambient Conditions. *Sheng, H.*, +, *TSG Jan. 2020 95-105*
- Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. *Liu, B.*, +, *TSG Sept. 2020 4345-4357*
- Real-Time Processing and Quality Improvement of Synchrophasor Data. *Pourramezan, R.*, +, *TSG July 2020 3313-3324*
- Matrix decomposition**
- Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*
- Maximum likelihood estimation**
- A Hybrid Event Detection Approach for Non-Intrusive Load Monitoring. *Lu, M.*, +, *TSG Jan. 2020 528-540*
- Maximum power point trackers**
- Voltage Regulation of DC-Microgrid With PV and Battery. *Sun, J.*, +, *TSG Nov. 2020 4662-4675*
- Mean square error methods**
- Aggregation of Multi-Scale Experts for Bottom-Up Load Forecasting. *Goehry, B.*, +, *TSG May 2020 1895-1904*
- Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*
- Metering**
- Automated Determination of Topology and Line Parameters in Low Voltage Systems Using Smart Meters Measurements. *Cunha, V.C.*, +, *TSG Nov. 2020 5028-5038*
- Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*
- Stochastic Geometry-Based Model for Dynamic Allocation of Metering Equipment in Spatio-Temporal Expanding Power Grids. *Atat, R.*, +, *TSG May 2020 2080-2091*
- Microgrids**
- Guest Editorial Theory and Application of PMUs in Power Distribution Systems. *Mohsenian-Rad, H.*, +, *TSG Jan. 2020 723-725*
- Minimax techniques**
- A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*
- Minimization**
- A Sponsor Incentive Attack Scheme for Feeder Automation Systems. *Dai, Q.*, +, *TSG March 2020 1440-1452*
- Data-Based Resilience Enhancement Strategies for Electric-Gas Systems Against Sequential Extreme Weather Events. *Liu, R.*, +, *TSG Nov. 2020 5383-5395*
- Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J.*, +, *TSG July 2020 3083-3094*
- Mixture models**
- Deep-Based Conditional Probability Density Function Forecasting of Residential Loads. *Afrasiabi, M.*, +, *TSG July 2020 3646-3657*
- Mobile radio**
- Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. *Elsayed, M.*, +, *TSG March 2020 1091-1099*
- Modal analysis**
- Small-Signal Stability of a DC Network Planned for Electric Vehicle Charging. *Du, W.*, +, *TSG Sept. 2020 3748-3762*
- Monitoring**
- Non-Intrusive Load Monitoring via Multi-Label Sparse Representation-Based Classification. *Singh, S.*, +, *TSG March 2020 1799-1801*
- Monte Carlo methods**
- A Learning-to-Infer Method for Real-Time Power Grid Multi-Line Outage Identification. *Zhao, Y.*, +, *TSG Jan. 2020 555-564*
- An Active Distribution Network Equivalent Derived From Large-Disturbance Simulations With Uncertainty. *Chaspierre, G.*, +, *TSG Nov. 2020 4749-4759*
- An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems. *Liu, W.*, +, *TSG Jan. 2020 541-554*
- Data-Driven Probabilistic Optimal Power Flow With Nonparametric Bayesian Modeling and Inference. *Sun, W.*, +, *TSG March 2020 1077-1090*
- Deep-Based Conditional Probability Density Function Forecasting of Residential Loads. *Afrasiabi, M.*, +, *TSG July 2020 3646-3657*
- Intelligent Multi-Microgrid Energy Management Based on Deep Neural Network and Model-Free Reinforcement Learning. *Du, Y.*, +, *TSG March 2020 1066-1076*
- Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. *Wang, S.*, +, *TSG May 2020 2709-2721*
- Nodal Reliability Evaluation of Interdependent Gas and Power Systems Considering Cascading Effects. *Bao, M.*, +, *TSG Sept. 2020 4090-4104*
- Quantitative Assessment of Stochastic Property of Network-Induced Time Delay in Smart Substation Cyber Communications. *Zheng, A.*, +, *TSG May 2020 2407-2416*
- Quantitative Evaluations of Uncertainties in Multivariate Operations of Microgrids. *Wang, H.*, +, *TSG July 2020 2892-2903*
- Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*
- Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. *He, R.*, +, *TSG Sept. 2020 3763-3773*
- Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method. *Xu, Y.*, +, *TSG March 2020 1593-1603*
- Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S.*, +, *TSG March 2020 1030-1043*
- Spatial-Temporal Reliability and Damage Assessment of Transmission Networks Under Hurricanes. *Zhang, H.*, +, *TSG March 2020 1044-1054*
- Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*
- Two-Stage WECC Composite Load Modeling: A Double Deep Q-Learning Networks Approach. *Wang, X.*, +, *TSG Sept. 2020 4331-4344*
- Multi-agent systems**
- A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*
- A Full Decentralized Multi-Agent Service Restoration for Distribution Network With DGs. *Li, W.*, +, *TSG March 2020 1100-1111*
- A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*
- Coordination of Electric Vehicle Charging Through Multiagent Reinforcement Learning. *Silva, F.L.D.*, +, *TSG May 2020 2347-2356*
- Event-Triggered Updating Method in Centralized and Distributed Secondary Controls for Islanded Microgrid Restoration. *Qian, T.*, +, *TSG March 2020 1387-1395*
- Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*
- Peer-to-Peer Control for Networked Microgrids: Multi-Layer and Multi-Agent Architecture Design. *Wang, Y.*, +, *TSG Nov. 2020 4688-4699*
- Multi-robot systems**
- Event-Triggered Updating Method in Centralized and Distributed Secondary Controls for Islanded Microgrid Restoration. *Qian, T.*, +, *TSG March 2020 1387-1395*
- N**
- Natural gas**
- Erratum to "Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems" [Jul 20 3558-3569]. *Nan, L.*, +, *TSG Sept. 2020 4569*
- Natural gas technology**
- A Dynamic Linearization and Convex Relaxation-Based Approach for a Natural Gas Optimal Operation Problem. *Yang, L.*, +, *TSG March 2020 1802-1804*
- Risk-Loss Coordinated Admissibility Assessment of Wind Generation for Integrated Electric-Gas Systems. *Wang, C.*, +, *TSG Sept. 2020 4454-4465*

Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. *Badakhshan, S.*, +, *TSG Jan. 2020 118-128*  
 Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems. *Nan, L.*, +, *TSG July 2020 3558-3569*

#### Nearest neighbor methods

Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*

#### Network theory (graphs)

Methodology for Reliability Assessment of Smart Grid Considering Risk of Failure of Communication Architecture. *Zhu, W.*, +, *TSG Sept. 2020 4358-4365*

#### Network topology

Gradient-Based Multi-Area Distribution System State Estimation. *Zhou, X.*, +, *TSG Nov. 2020 5325-5338*

#### Networked control systems

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

#### Neural networks

A Data-Driven Approach for Generating Synthetic Load Patterns and Usage Habits. *Kababji, S.E.*, +, *TSG Nov. 2020 4984-4995*

A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S.*, +, *TSG Nov. 2020 4916-4927*

A Supervised-Learning-Based Strategy for Optimal Demand Response of an HVAC System in a Multi-Zone Office Building. *Kim, Y.*, *TSG Sept. 2020 4212-4226*

Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H.*, +, *TSG May 2020 2427-2439*

Deep Reinforcement Learning Method for Demand Response Management of Interruptible Load. *Wang, B.*, +, *TSG July 2020 3146-3155*

Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*

Double Deep  $Q$ -Learning-Based Distributed Operation of Battery Energy Storage System Considering Uncertainties. *Bui, Y.-H.*, +, *TSG Jan. 2020 457-469*

Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. *Qian, T.*, +, *TSG July 2020 3019-3030*

Fast Calculation of Probabilistic Power Flow: A Model-Based Deep Learning Approach. *Yang, Y.*, +, *TSG May 2020 2235-2244*

Improving Probabilistic Load Forecasting Using Quantile Regression NN With Skip Connections. *Zhang, W.*, +, *TSG Nov. 2020 5442-5450*

Intelligent Multi-Microgrid Energy Management Based on Deep Neural Network and Model-Free Reinforcement Learning. *Du, Y.*, +, *TSG March 2020 1066-1076*

Model-Free Real-Time Autonomous Control for a Residential Multi-Energy System Using Deep Reinforcement Learning. *Ye, Y.*, +, *TSG July 2020 3068-3082*

Plug-in Electric Vehicle Behavior Modeling in Energy Market: A Novel Deep Learning-Based Approach With Clustering Technique. *Jahangir, H.*, +, *TSG Nov. 2020 4738-4748*

Probabilistic Deep Autoencoder for Power System Measurement Outlier Detection and Reconstruction. *Lin, Y.*, +, *TSG March 2020 1796-1798*

Real-Time Residential Demand Response. *Li, H.*, +, *TSG Sept. 2020 4144-4154*

Safe Off-Policy Deep Reinforcement Learning Algorithm for Volt-VAR Control in Power Distribution Systems. *Wang, W.*, +, *TSG July 2020 3008-3018*

Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*

#### Neurocontrollers

Deep Reinforcement Learning-Based Approach for Proportional Resonance Power System Stabilizer to Prevent Ultra-Low-Frequency Oscillations. *Zhang, G.*, +, *TSG Nov. 2020 5260-5272*

Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System. *Sanchez Gorostiza, F.*, +, *TSG Nov. 2020 5039-5050*

Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*

#### Newton method

Gradient-Based Multi-Area Distribution System State Estimation. *Zhou, X.*, +, *TSG Nov. 2020 5325-5338*

#### Newton-Raphson method

Double-Mode Energy Management for Multi-Energy System via Distributed Dynamic Event-Triggered Newton-Raphson Algorithm. *Li, Y.*, +, *TSG Nov. 2020 5339-5356*

Full Parallel Power Flow Solution: A GPU-CPU-Based Vectorization Parallelization and Sparse Techniques for Newton-Raphson Implementation. *Su, X.*, +, *TSG May 2020 1833-1844*

Steady-State Simulation for Combined Transmission and Distribution Systems. *Pandey, A.*, +, *TSG March 2020 1124-1135*

Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*

#### Noise measurement

A Data-Driven Approach to Linearize Power Flow Equations Considering Measurement Noise. *Liu, Y.*, +, *TSG May 2020 2576-2587*

#### Nonlinear control systems

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*

Event Trigger Super Twisting Sliding Mode Control for DC Micro Grid With Matched/Unmatched Disturbance Observer. *Kumar, V.*, +, *TSG Sept. 2020 3837-3849*

New Analysis Framework for Transient Stability Evaluation of DC Microgrids. *Xia, Y.*, +, *TSG July 2020 2794-2804*

Non-Linear Primary Control Mapping for Droop-Like Behavior of Microgrid Systems. *Legry, M.*, +, *TSG Nov. 2020 4604-4613*

Voltage Regulation of DC-Microgrid With PV and Battery. *Sun, J.*, +, *TSG Nov. 2020 4662-4675*

#### Nonlinear dynamical systems

Dynamic State Estimation for Power Networks by Distributed Unscented Information Filter. *Yang, J.*, +, *TSG May 2020 2162-2171*

#### Nonlinear estimation

Dynamic State Estimation for Power Networks by Distributed Unscented Information Filter. *Yang, J.*, +, *TSG May 2020 2162-2171*

#### Nonlinear programming

A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*

A Risk-Averse Conic Model for Networked Microgrids Planning With Reconfiguration and Reorganizations. *Cao, X.*, +, *TSG Jan. 2020 696-709*

Centralised and Distributed Optimization for Aggregated Flexibility Services Provision. *Olivella-Rosell, P.*, +, *TSG July 2020 3257-3269*

Convex Relaxation of Grid-Connected Energy Storage System Models With Complementarity Constraints in DC OPF. *Garifi, K.*, +, *TSG Sept. 2020 4070-4079*

Smart Meter Data-Driven Customizing Price Design for Retailers. *Feng, C.*, +, *TSG May 2020 2043-2054*

Topology Identification in Distribution Systems Using Line Current Sensors: An MILP Approach. *Farajollahi, M.*, +, *TSG March 2020 1159-1170*

Two-Stage Convexification-Based Optimal Electricity-Gas Flow. *Yang, L.*, +, *TSG March 2020 1465-1475*

#### Nonparametric statistics

Probabilistic Deep Autoencoder for Power System Measurement Outlier Detection and Reconstruction. *Lin, Y.*, +, *TSG March 2020 1796-1798*

#### Numerical analysis

A Dynamic Linearization and Convex Relaxation-Based Approach for a Natural Gas Optimal Operation Problem. *Yang, L.*, +, *TSG March 2020 1802-1804*

A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*

A Novel Scheduling Strategy for Controllable Loads With Power-Efficiency Characteristics. *Wei, F.*, +, *TSG May 2020 2151-2161*

An Analytical Method for Generation Unit Aggregation in Virtual Power Plants. *Qu, M.*, +, *TSG Nov. 2020 5466-5469*

An Online Admission Control Mechanism for Electric Vehicles at Public Parking Infrastructures. *Tucker, N.*, +, *TSG Jan. 2020 161-170*

Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F.*, +, *TSG May 2020 2476-2486*

Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. *Lin, C.*, +, *TSG May 2020 2531-2540*

Desynchronized Model Predictive Control for Large Populations of Fans in Server Racks of Datacenters. *Laparra, G.*, +, *TSG Jan. 2020 411-419*

Distributed Adaptive Robust Voltage/VAR Control With Network Partition in Active Distribution Networks. *Li, P.*, +, *TSG May 2020 2245-2256*

Grid Influenced Peer-to-Peer Energy Trading. *Tushar, W.*, +, *TSG March 2020 1407-1418*

Locational Marginal Price Forecasting: A Componential and Ensemble Approach. *Zheng, K.*, +, *TSG Sept. 2020 4555-4564*

Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions. *Peng, Y.*, +, *TSG March 2020 1330-1342*

Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. *Luo, F.*, +, *TSG Jan. 2020 4-14*

Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Lv, S.*, +, *TSG May 2020 1854-1865*

Optimal Voltage Reference for Droop-Based DERs in Distribution Systems. *Hong, T.*, +, *TSG May 2020 2357-2366*

Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making. *Junlakarn, S.*, +, *TSG Sept. 2020 3970-3981*

Reduced-Order State Space Model for Dynamic Phasors in Active Distribution Networks. *Wang, H.*, +, *TSG May 2020 1928-1941*

Stealth Attacks on the Smart Grid. *Sun, K.*, +, *TSG March 2020 1276-1285*

Towards Plug-and-Play Protection for Meshed Distribution Systems With DG. *Tsimtsios, A.M.*, +, *TSG May 2020 1980-1995*

Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*

#### Nyquist stability

Low-Frequency Stability Analysis of Inverter-Based Islanded Multiple-Bus AC Microgrids Based on Terminal Characteristics. *Cao, W.*, +, *TSG Sept. 2020 3662-3676*

## O

#### Observability

Matrix Completion for Low-Observability Voltage Estimation. *Donti, P.L.*, +, *TSG May 2020 2520-2530*

Stochastic Geometry-Based Model for Dynamic Allocation of Metering Equipment in Spatio-Temporal Expanding Power Grids. *Atat, R.*, +, *TSG May 2020 2080-2091*

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- Graph-Based Faulted Line Identification Using Micro-PMU Data in Distribution Systems. *Zhang, Y.*, +, *TSG Sept. 2020 3982-3992*
- Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning. *Xiong, S.*, +, *TSG Nov. 2020 5239-5248*
- Location of Single Phase to Ground Faults in Distribution Networks Based on Synchronous Transients Energy Analysis. *Wang, X.*, +, *TSG Jan. 2020 774-785*
- Low-Frequency Stability Analysis of Inverter-Based Islanded Multiple-Bus AC Microgrids Based on Terminal Characteristics. *Cao, W.*, +, *TSG Sept. 2020 3662-3676*
- Microgrid Dynamic Modeling and Islanding Control With Synchrophasor Data. *Konakalla, S.A.R.*, +, *TSG Jan. 2020 905-915*
- Microgrid Protection and Control Schemes for Seamless Transition to Island and Grid Synchronization. *Vukojevic, A.*, +, *TSG July 2020 2845-2855*
- Multi-View Convolutional Neural Network for Data Spoofing Cyber-Attack Detection in Distribution Synchrophasors. *Qiu, W.*, +, *TSG July 2020 3457-3468*
- Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*
- Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.I.*, +, *TSG March 2020 1239-1252*
- Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. *Ganjan-Aboukheili, M.*, +, *TSG May 2020 2106-2114*
- Sparse Voltage Measurement-Based Fault Location Using Intelligent Electronic Devices. *Jia, K.*, +, *TSG Jan. 2020 48-60*
- Topology Identification in Distribution Systems Using Line Current Sensors: An MILP Approach. *Farajollahi, M.*, +, *TSG March 2020 1159-1170*
- Towards Plug-and-Play Protection for Meshed Distribution Systems With DG. *Tsimtsios, A.M.*, +, *TSG May 2020 1980-1995*
- Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems. *Jia, K.*, +, *TSG Jan. 2020 323-333*
- Power distribution lines**
- A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M.*, +, *TSG May 2020 2115-2124*
- Graphical Models in Meshed Distribution Grids: Topology Estimation, Change Detection & Limitations. *Deka, D.*, +, *TSG Sept. 2020 4299-4310*
- Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG May 2020 2498-2510*
- Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems. *Jia, K.*, +, *TSG Jan. 2020 323-333*
- Power distribution planning**
- A Fast Adequacy Analysis for Radial Distribution Networks Considering Reconfiguration and DGs. *Arefi, A.*, +, *TSG Sept. 2020 3896-3909*
- A Mixed Integer Conic Model for Distribution Expansion Planning: Mathuristic Approach. *Home-Ortiz, J.M.*, +, *TSG Sept. 2020 3932-3943*
- A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data. *Power, T.*, +, *TSG May 2020 2511-2519*
- A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S.*, +, *TSG May 2020 2140-2150*
- A Stochastic Multi-Commodity Logistic Model for Disaster Preparation in Distribution Systems. *Arif, A.*, +, *TSG Jan. 2020 565-576*
- An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems. *Liu, W.*, +, *TSG Jan. 2020 541-554*
- Automating the Verification of the Low Voltage Network Cables and Topologies. *Mokhtar, M.*, +, *TSG March 2020 1657-1666*
- Coordinated Planning of Transportation and Electric Power Networks With the Proliferation of Electric Vehicles. *Gan, W.*, +, *TSG Sept. 2020 4005-4016*
- Deployment of the Electric Vehicle Charging Station Considering Existing Competitors. *Zhao, Y.*, +, *TSG Sept. 2020 4236-4248*
- Enhancement of Distribution System Reliability: A Framework Based on Cournot Game Model. *Mohammadi, R.*, +, *TSG May 2020 2172-2181*
- Expansion Planning of Active Distribution Networks With Multiple Distributed Energy Resources and EV Sharing System. *Wang, S.*, +, *TSG Jan. 2020 602-611*
- Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. *Wang, S.*, +, *TSG May 2020 2709-2721*
- Locational Marginal Value of Distributed Energy Resources as Non-Wires Alternatives. *Andrianesis, P.*, +, *TSG Jan. 2020 270-280*
- Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. *Zhang, G.*, +, *TSG Nov. 2020 4847-4859*
- Optimal Switch Placement in Distribution Systems: A High-Accuracy MILP Formulation. *Shahbazian, A.*, +, *TSG Nov. 2020 5009-5018*
- PEV Fast-Charging Station Sizing and Placement in Coupled Transportation-Distribution Networks Considering Power Line Conditioning Capability. *Hashemian, S.N.*, +, *TSG Nov. 2020 4773-4783*
- Robust Coordination Expansion Planning for Active Distribution Network in Deregulated Retail Power Market. *Huang, C.*, +, *TSG March 2020 1476-1488*
- Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*
- Power distribution protection**
- Attack Identification and Correction for PMU GPS Spoofing in Unbalanced Distribution Systems. *Zhang, Y.*, +, *TSG Jan. 2020 762-773*
- Enhance High Impedance Fault Detection and Location Accuracy via  $\mu$ -PMUs. *Cui, Q.*, +, *TSG Jan. 2020 797-809*

Flexible Machine Learning-Based Cyberattack Detection Using Spatio-temporal Patterns for Distribution Systems. *Cui, M.*, +, *TSG March 2020 1805-1808*

Graphical Models in Meshed Distribution Grids: Topology Estimation, Change Detection & Limitations. *Deka, D.*, +, *TSG Sept. 2020 4299-4310*

Location of Single Phase to Ground Faults in Distribution Networks Based on Synchronous Transients Energy Analysis. *Wang, X.*, +, *TSG Jan. 2020 774-785*

Towards Plug-and-Play Protection for Meshed Distribution Systems With DG. *Tsimtsios, A.M.*, +, *TSG May 2020 1980-1995*

Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems. *Jia, K.*, +, *TSG Jan. 2020 323-333*

#### Power distribution reliability

A Distributed and Robust Energy Management System for Networked Hybrid AC/DC Microgrids. *Xu, Q.*, +, *TSG July 2020 3496-3508*

A Fast Adequacy Analysis for Radial Distribution Networks Considering Reconfiguration and DGs. *Arefi, A.*, +, *TSG Sept. 2020 3896-3909*

A Full Decentralized Multi-Agent Service Restoration for Distribution Network With DGs. *Li, W.*, +, *TSG March 2020 1100-1111*

A Sponsor Incentive Attack Scheme for Feeder Automation Systems. *Dai, Q.*, +, *TSG March 2020 1440-1452*

Constrained Thompson Sampling for Real-Time Electricity Pricing With Grid Reliability Constraints. *Tucker, N.*, +, *TSG Nov. 2020 4971-4983*

Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation. *Jiang, Y.*, *TSG Jan. 2020 129-137*

Decentralized Cooperative Optimal Power Flow of Multiple Interconnected Microgrids via Negotiation. *Li, F.*, +, *TSG Sept. 2020 3827-3836*

Distributed Outage Detection in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG Nov. 2020 5124-5137*

Distributed Risk-Limiting Load Restoration in Unbalanced Distribution Systems With Networked Microgrids. *Shen, F.*, +, *TSG Nov. 2020 4574-4586*

Enhancement of Distribution System Reliability: A Framework Based on Cournot Game Model. *Mohammadi, R.*, +, *TSG May 2020 2172-2181*

Enhancing Distribution System Resilience With Proactive Islanding and RCS-Based Fast Fault Isolation and Service Restoration. *Liu, J.*, +, *TSG May 2020 2381-2395*

Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning. *Xiong, S.*, +, *TSG Nov. 2020 5239-5248*

Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. *Wang, S.*, +, *TSG May 2020 2709-2721*

Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG May 2020 2498-2510*

Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. *Zhang, G.*, +, *TSG Nov. 2020 4847-4859*

Networked-Constrained DER Valuation in Distribution Networks. *Nasiri, H.*, +, *TSG Nov. 2020 4809-4817*

Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhavatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*

Optimal Management of Transactive Distribution Electricity Markets With Co-Optimized Bidirectional Energy and Ancillary Service Exchanges. *Wu, Y.*, +, *TSG Nov. 2020 4650-4661*

Optimal Switch Placement in Distribution Systems: A High-Accuracy MILP Formulation. *Shahbazian, A.*, +, *TSG Nov. 2020 5009-5018*

Outage Detection in Partially Observable Distribution Systems Using Smart Meters and Generative Adversarial Networks. *Yuan, Y.*, +, *TSG Nov. 2020 5418-5430*

Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. *Arif, A.*, +, *TSG Jan. 2020 673-685*

Sensor Placement for Outage Identifiability in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG May 2020 1996-2013*

Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. *Zhang, G.*, +, *TSG Nov. 2020 4700-4713*

#### Power electronics

A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. *Zhao, H.*, +, *TSG May 2020 2303-2312*

A Market Mechanism for Virtual Inertia. *Poolla, B.K.*, +, *TSG July 2020 3570-3579*

Fast Frequency Response From Energy Storage Systems—A Review of Grid Standards, Projects and Technical Issues. *Meng, L.*, +, *TSG March 2020 1566-1581*

Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*

Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. *Chang, F.*, +, *TSG Nov. 2020 5273-5287*

New Analysis Framework for Transient Stability Evaluation of DC Microgrids. *Xia, Y.*, +, *TSG July 2020 2794-2804*

Optimized Autonomous Operation Control to Maintain the Frequency, Voltage and Accurate Power Sharing for DGs in Islanded Systems. *Sun, L.*, +, *TSG Sept. 2020 3885-3895*

PEV Fast-Charging Station Sizing and Placement in Coupled Transportation-Distribution Networks Considering Power Line Conditioning Capability. *Hashemian, S.N.*, +, *TSG Nov. 2020 4773-4783*

Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J.*, +, *TSG Nov. 2020 4938-4948*

#### Power engineering computing

A Data-Driven Approach for Generating Synthetic Load Patterns and Usage Habits. *Kababji, S.E.*, +, *TSG Nov. 2020 4984-4995*

A Data-Driven Pattern Extraction Method for Analyzing Bidding Behaviors in Power Markets. *Guo, H.*, +, *TSG July 2020 3509-3521*

A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S.*, +, *TSG Nov. 2020 4916-4927*

A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*

A Full Decentralized Multi-Agent Service Restoration for Distribution Network With DGs. *Li, W.*, +, *TSG March 2020 1100-1111*

A Hierarchical Power Grid Fault Diagnosis Method Using Multi-Source Information. *Wang, S.*, +, *TSG May 2020 2067-2079*

A Hybrid Distribution Feeder Long-Term Load Forecasting Method Based on Sequence Prediction. *Dong, M.*, +, *TSG Jan. 2020 470-482*

A Hybrid Event Detection Approach for Non-Intrusive Load Monitoring. *Lu, M.*, +, *TSG Jan. 2020 528-540*

A Learning-Based Power Management Method for Networked Microgrids Under Incomplete Information. *Zhang, Q.*, +, *TSG March 2020 1193-1204*

A Learning-to-Infer Method for Real-Time Power Grid Multi-Line Outage Identification. *Zhao, Y.*, +, *TSG Jan. 2020 555-564*

A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*

A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*

A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data. *Power, T.*, +, *TSG May 2020 2511-2519*

A Novel Fitted Rolling Horizon Control Approach for Real-Time Policy Making in Microgrid. *Das, A.*, +, *TSG July 2020 3535-3544*

A Novel Peer-to-Peer Local Electricity Market for Joint Trading of Energy and Uncertainty. *Zhang, Z.*, +, *TSG March 2020 1205-1215*

A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. *Kong, W.*, +, *TSG Jan. 2020 148-160*

A Real-Time Framework for Matching Prosumers With Minimum Risk in the Cluster of Microgrids. *Ryu, Y.*, +, *TSG July 2020 2832-2844*

A Robust Spatiotemporal Forecasting Framework for Photovoltaic Generation. *Chai, S.*, +, *TSG Nov. 2020 5370-5382*

A Robust Statistical Approach to Distributed Power System State Estimation With Bad Data. *Ho, C.H.*, +, *TSG Jan. 2020 517-527*

A Scalable and Distributed Algorithm for Managing Residential Demand Response Programs Using Alternating Direction Method of Multipliers (ADMM). *Kou, X.*, +, *TSG Nov. 2020 4871-4882*

- A Survey on the Detection Algorithms for False Data Injection Attacks in Smart Grids. *Musleh, A.S.*, +, *TSG May 2020 2218-2234*
- Affinely Adjustable Robust ADMM for Residential DER Coordination in Distribution Networks. *Attarha, A.*, +, *TSG March 2020 1620-1629*
- Agent-Based Distributed Computing for Power System State Estimation. *Saxena, K.*, +, *TSG Nov. 2020 5193-5202*
- Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y.*, +, *TSG Nov. 2020 4883-4890*
- Aggregation of Multi-Scale Experts for Bottom-Up Load Forecasting. *Goehry, B.*, +, *TSG May 2020 1895-1904*
- An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*
- Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*
- Automated Identification of Electrical Disturbance Waveforms Within an Operational Smart Power Grid. *Wilson, A.J.*, +, *TSG Sept. 2020 4380-4389*
- Automating the Verification of the Low Voltage Network Cables and Topologies. *Mokhtar, M.*, +, *TSG March 2020 1657-1666*
- Batch-Constrained Reinforcement Learning for Dynamic Distribution Network Reconfiguration. *Gao, Y.*, +, *TSG Nov. 2020 5357-5369*
- CASeS: Concurrent Contingency Analysis-Based Security Metric Deployment for the Smart Grid. *Akaber, P.*, +, *TSG May 2020 2676-2687*
- Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H.*, +, *TSG May 2020 2427-2439*
- Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models. *Kaselimi, M.*, +, *TSG July 2020 3054-3067*
- Coordination of Electric Vehicle Charging Through Multiagent Reinforcement Learning. *Silva, F.L.D.*, +, *TSG May 2020 2347-2356*
- Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. *Razavi-Far, R.*, +, *TSG March 2020 1453-1464*
- CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency. *Venkataramanan, V.*, +, *TSG March 2020 1055-1065*
- CP-TRAM: Cyber-Physical Transmission Resiliency Assessment Metric. *Tushar, .*, +, *TSG Nov. 2020 5114-5123*
- Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*
- Cyber Physical Security Analytics for Transactive Energy Systems. *Zhang, Y.*, +, *TSG March 2020 931-941*
- Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F.*, +, *TSG May 2020 2476-2486*
- Data-Based Resilience Enhancement Strategies for Electric-Gas Systems Against Sequential Extreme Weather Events. *Liu, R.*, +, *TSG Nov. 2020 5383-5395*
- Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*
- Data-Driven Probabilistic Optimal Power Flow With Nonparametric Bayesian Modeling and Inference. *Sun, W.*, +, *TSG March 2020 1077-1090*
- Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*
- Deep Learning Detection of Electricity Theft Cyber-Attacks in Renewable Distributed Generation. *Ismail, M.*, +, *TSG July 2020 3428-3437*
- Deep Learning-Based Real-Time Building Occupancy Detection Using AMI Data. *Feng, C.*, +, *TSG Sept. 2020 4490-4501*
- Deep Reinforcement Learning for EV Charging Navigation by Coordinating Smart Grid and Intelligent Transportation System. *Qian, T.*, +, *TSG March 2020 1714-1723*
- Deep Reinforcement Learning for Strategic Bidding in Electricity Markets. *Ye, Y.*, +, *TSG March 2020 1343-1355*
- Deep Reinforcement Learning Method for Demand Response Management of Interruptible Load. *Wang, B.*, +, *TSG July 2020 3146-3155*
- Deep-Based Conditional Probability Density Function Forecasting of Residential Loads. *Afrasiabi, M.*, +, *TSG July 2020 3646-3657*
- Design and Implementation of a Data-Driven Approach to Visualizing Power Quality. *Xiao, F.*, +, *TSG Sept. 2020 4366-4379*
- Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. *Jalali, M.*, +, *TSG March 2020 1759-1770*
- Detection and Mitigation of Cyber Attacks on Voltage Stability Monitoring of Smart Grids. *Ghafouri, M.*, +, *TSG Nov. 2020 5227-5238*
- Detection and Mitigation of Data Manipulation Attacks in AC Microgrids. *Mustafa, A.*, +, *TSG May 2020 2588-2603*
- Differential Privacy for Power Grid Obfuscation. *Fioretto, F.*, +, *TSG March 2020 1356-1366*
- Distributed Outage Detection in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG Nov. 2020 5124-5137*
- Double Deep Q-Learning-Based Distributed Operation of Battery Energy Storage System Considering Uncertainties. *Bui, Y.-H.*, +, *TSG Jan. 2020 457-469*
- Dummy Data Attacks in Power Systems. *Liu, X.*, +, *TSG March 2020 1792-1795*
- Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators. *Kumwar, A.*, +, *TSG May 2020 1942-1955*
- Electricity Theft Pinpointing Through Correlation Analysis of Master and Individual Meter Readings. *Biswas, P.P.*, +, *TSG July 2020 3031-3042*
- Enabling Efficient and Privacy-Preserving Aggregation Communication and Function Query for Fog Computing-Based Smart Grid. *Liu, J.*, +, *TSG Jan. 2020 247-257*
- Enhance High Impedance Fault Detection and Location Accuracy via  $\mu$ -PMUs. *Cui, Q.*, +, *TSG Jan. 2020 797-809*
- Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. *Qian, T.*, +, *TSG July 2020 3019-3030*
- Establishment of Enhanced Load Modeling by Correlating With Occupancy Information. *Tang, Y.*, +, *TSG March 2020 1702-1713*
- Fast Calculation of Probabilistic Power Flow: A Model-Based Deep Learning Approach. *Yang, Y.*, +, *TSG May 2020 2235-2244*
- Flexible Machine Learning-Based Cyberattack Detection Using Spatio-temporal Patterns for Distribution Systems. *Cui, M.*, +, *TSG March 2020 1805-1808*
- Fog-Computing-Based Short-Circuit Diagnosis Scheme. *Tong, J.*, +, *TSG July 2020 3359-3371*
- Frequency Disturbance Event Detection Based on Synchrophasors and Deep Learning. *Wang, W.*, +, *TSG July 2020 3593-3605*
- Full Parallel Power Flow Solution: A GPU-CPU-Based Vectorization Parallelization and Sparse Techniques for Newton-Raphson Implementation. *Su, X.*, +, *TSG May 2020 1833-1844*
- Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*
- Global Sensitivity Analysis in Load Modeling via Low-Rank Tensor. *Lin, Y.*, +, *TSG May 2020 2737-2740*
- Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*
- Hierarchical Clustering for Smart Meter Electricity Loads Based on Quantile Autocovariances. *Alonso, A.M.*, +, *TSG Sept. 2020 4522-4530*
- Improving Probabilistic Load Forecasting Using Quantile Regression NN With Skip Connections. *Zhang, W.*, +, *TSG Nov. 2020 5442-5450*
- Improving Supervised Phase Identification Through the Theory of Information Losses. *Foggo, B.*, +, *TSG May 2020 2337-2346*
- Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. *Elsayed, M.*, +, *TSG March 2020 1091-1099*
- Mechanism Design for Demand Response Programs. *Muthirayan, D.*, +, *TSG Jan. 2020 61-73*
- Methods for Flexible Management of Blockchain-Based Cryptocurrencies in Electricity Markets and Smart Grids. *Ghorbanian, M.*, +, *TSG Sept. 2020 4227-4235*
- Model-Free Real-Time Autonomous Control for a Residential Multi-Energy System Using Deep Reinforcement Learning. *Ye, Y.*, +, *TSG July 2020 3068-3082*
- Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*
- Multi-Task Logistic Low-Ranked Dirty Model for Fault Detection in Power Distribution System. *Gilanifar, M.*, +, *TSG Jan. 2020 786-796*

- Multi-View Convolutional Neural Network for Data Spoofing Cyber-Attack Detection in Distribution Synchronphasors. *Qiu, W.*, +, *TSG July 2020 3457-3468*
- Multiple Kernel Learning-Based Transfer Regression for Electric Load Forecasting. *Wu, D.*, +, *TSG March 2020 1183-1192*
- On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. *Saad, A.*, +, *TSG Nov. 2020 5138-5150*
- Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*
- Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*
- Online Learning for Network Constrained Demand Response Pricing in Distribution Systems. *Mieth, R.*, +, *TSG May 2020 2563-2575*
- Optimal Voltage Reference for Droop-Based DERs in Distribution Systems. *Hong, T.*, +, *TSG May 2020 2357-2366*
- Plug-in Electric Vehicle Behavior Modeling in Energy Market: A Novel Deep Learning-Based Approach With Clustering Technique. *Jahangir, H.*, +, *TSG Nov. 2020 4738-4748*
- PMU-Based Distributed Non-Iterative Algorithm for Real-Time Voltage Stability Monitoring. *Guddanti, K.P.*, +, *TSG Nov. 2020 5203-5215*
- Power System Parameter Attack for Financial Profits in Electricity Markets. *Xu, H.*, +, *TSG July 2020 3438-3446*
- Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*
- Public Plug-in Electric Vehicles + Grid Data: Is a New Cyberattack Vector Viable?. *Acharya, S.*, +, *TSG Nov. 2020 5099-5113*
- Reinforced Deterministic and Probabilistic Load Forecasting via  $Q$ -Learning Dynamic Model Selection. *Feng, C.*, +, *TSG March 2020 1377-1386*
- Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*
- Resilient Collaborative Distributed Energy Management System Framework for Cyber-Physical DC Microgrids. *Cheng, Z.*, +, *TSG Nov. 2020 4637-4649*
- Safe Off-Policy Deep Reinforcement Learning Algorithm for Volt-VAR Control in Power Distribution Systems. *Wang, W.*, +, *TSG July 2020 3008-3018*
- Separating Feeder Demand Into Components Using Substation, Feeder, and Smart Meter Measurements. *Ledva, G.S.*, +, *TSG July 2020 3280-3290*
- Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*
- Slope-Based Shape Cluster Method for Smart Metering Load Profiles. *Xiang, Y.*, +, *TSG March 2020 1809-1811*
- Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*
- Steady-State Simulation for Combined Transmission and Distribution Systems. *Pandey, A.*, +, *TSG March 2020 1124-1135*
- Stealth Attacks on the Smart Grid. *Sun, K.*, +, *TSG March 2020 1276-1285*
- Synchronphasor Missing Data Recovery via Data-Driven Filtering. *Konstantinopoulos, S.*, +, *TSG Sept. 2020 4321-4330*
- Synchronphasor-Based Condition Monitoring of Instrument Transformers Using Clustering Approach. *Cui, B.*, +, *TSG May 2020 2688-2698*
- Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*
- Transfer Learning for Non-Intrusive Load Monitoring. *D'Incecco, M.*, +, *TSG March 2020 1419-1429*
- Truthful, Practical and Privacy-Aware Demand Response in the Smart Grid via a Distributed and Optimal Mechanism. *Tsaousoglou, G.*, +, *TSG July 2020 3119-3130*
- Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*
- Unsupervised Impedance and Topology Estimation of Distribution Networks—Limitations and Tools. *Moffat, K.*, +, *TSG Jan. 2020 846-856*
- UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability. *Kosen, I.*, +, *TSG Jan. 2020 739-748*
- Virtual Energy Storage Sharing and Capacity Allocation. *Zhao, D.*, +, *TSG March 2020 1112-1123*
- Wavelet-Based Decompositions in Probabilistic Load Forecasting. *Alfieri, L.*, +, *TSG March 2020 1367-1376*
- WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*
- Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*
- Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J.*, +, *TSG July 2020 3083-3094*
- Power factor**
- A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*
- Power filters**
- A Self-Adaptive Contractive Algorithm for Enhanced Dynamic Phasor Estimation. *Messina, F.*, +, *TSG May 2020 2367-2380*
- Power generation control**
- A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. *He, L.*, +, *TSG March 2020 1737-1747*
- A Distributed Task Allocation Based on a Winner-Take-All Approach for Multiple Energy Storage Systems Coordination in a Microgrid. *Xu, Y.*, +, *TSG Jan. 2020 686-695*
- A Market Mechanism for Virtual Inertia. *Poolla, B.K.*, +, *TSG July 2020 3570-3579*
- A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*
- A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances. *Razi, R.*, +, *TSG Sept. 2020 3795-3804*
- A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. *Zhou, J.*, +, *TSG Sept. 2020 3716-3725*
- A Two-Layer Distributed Cooperative Control Method for Islanded Networked Microgrid Systems. *Wu, X.*, +, *TSG March 2020 942-957*
- A Zero-Free Event-Triggered Secondary Control for AC Microgrids. *Abdolemaleki, B.*, +, *TSG May 2020 1905-1916*
- Accurate Consensus-Based Distributed Averaging With Variable Time Delay in Support of Distributed Secondary Control Algorithms. *Du, Y.*, +, *TSG July 2020 2918-2928*
- Active Distribution Grids Offering Ancillary Services in Islanded and Grid-Connected Mode. *Karagiannopoulos, S.*, +, *TSG Jan. 2020 623-633*
- Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y.*, +, *TSG Nov. 2020 4883-4890*
- Autonomous Coordinated Control Scheme for Cooperative Asymmetric Low-Voltage Ride-Through and Grid Support in Active Distribution Networks With Multiple DG Units. *Shabestary, M.M.*, +, *TSG May 2020 2125-2139*
- Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles. *Wang, B.*, +, *TSG May 2020 2324-2336*
- Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids. *Wang, S.*, +, *TSG Sept. 2020 3774-3784*
- D-PMU Based Secondary Frequency Control for Islanded Microgrids. *Rodrigues, Y.R.*, +, *TSG Jan. 2020 857-872*
- Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*
- Decentralized Bidirectional Voltage Supporting Control for Multi-Mode Hybrid AC/DC Microgrid. *Yang, P.*, +, *TSG May 2020 2615-2626*
- Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System. *Sanchez Gorostiza, F.*, +, *TSG Nov. 2020 5039-5050*

- Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control. *Shabshab, S.C.*, +, *TSG May 2020 1917-1927*
- Detection and Mitigation of Data Manipulation Attacks in AC Microgrids. *Mustafa, A.*, +, *TSG May 2020 2588-2603*
- Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation. *Li, J.*, +, *TSG Nov. 2020 4760-4772*
- Distributed Optimal Control of Energy Storages in a DC Microgrid With Communication Delay. *Shi, M.*, +, *TSG May 2020 2033-2042*
- Distributed Predictive Control for Frequency and Voltage Regulation in Microgrids. *Gomez, J.S.*, +, *TSG March 2020 1319-1329*
- Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults. *Dehkordi, N.M.*, +, *TSG May 2020 2699-2708*
- Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*
- Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. *Xing, L.*, +, *TSG May 2020 2487-2497*
- Distributed Secondary Voltage Control in Islanded Microgrids With Consideration of Communication Network and Time Delays. *Lou, G.*, +, *TSG Sept. 2020 3702-3715*
- Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*
- Event-Triggered Updating Method in Centralized and Distributed Secondary Controls for Islanded Microgrid Restoration. *Qian, T.*, +, *TSG March 2020 1387-1395*
- Hierarchical Coordination of Two-Time Scale Microgrids With Supply-Demand Imbalance. *Du, Y.*, +, *TSG Sept. 2020 3726-3736*
- Hierarchical Distributed Voltage Optimization Method for HV and MV Distribution Networks. *Chai, Y.*, +, *TSG March 2020 968-980*
- Hierarchical Scheduling of Aggregated TCL Flexibility for Transactive Energy in Power Systems. *Song, M.*, +, *TSG May 2020 2452-2463*
- Hierarchically-Coordinated Voltage/VAR Control of Distribution Networks Using PV Inverters. *Zhang, C.*, +, *TSG July 2020 2942-2953*
- Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control. *Velasquez, M.A.*, +, *TSG May 2020 1968-1979*
- Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. *Chang, F.*, +, *TSG Nov. 2020 5273-5287*
- Low-Frequency Stability Analysis of Inverter-Based Islanded Multiple-Bus AC Microgrids Based on Terminal Characteristics. *Cao, W.*, +, *TSG Sept. 2020 3662-3676*
- Matrix Completion for Low-Observability Voltage Estimation. *Donti, P.L.*, +, *TSG May 2020 2520-2530*
- Microgrid Dynamic Modeling and Islanding Control With Synchronopasor Data. *Konakalla, S.A.R.*, +, *TSG Jan. 2020 905-915*
- Microgrid Protection and Control Schemes for Seamless Transition to Island and Grid Synchronization. *Vukojevic, A.*, +, *TSG July 2020 2845-2855*
- Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions. *Peng, Y.*, +, *TSG March 2020 1330-1342*
- Multi-Objective Adaptive Robust Voltage/VAR Control for High-PV Penetrated Distribution Networks. *Zhang, C.*, +, *TSG Nov. 2020 5288-5300*
- Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*
- Optimal Combination of Frequency Control and Peak Shaving With Battery Storage Systems. *Engels, J.*, +, *TSG July 2020 3270-3279*
- Optimal Control of DERs in ADN Under Spatial and Temporal Correlated Uncertainties. *Chen, X.*, +, *TSG March 2020 1216-1228*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. *Raman, G.*, +, *TSG July 2020 2805-2815*
- Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.I.*, +, *TSG March 2020 1239-1252*
- Optimized Autonomous Operation Control to Maintain the Frequency, Voltage and Accurate Power Sharing for DGs in Islanded Systems. *Sun, L.*, +, *TSG Sept. 2020 3885-3895*
- Peer-to-Peer Control for Networked Microgrids: Multi-Layer and Multi-Agent Architecture Design. *Wang, Y.*, +, *TSG Nov. 2020 4688-4699*
- Privacy-Preserving Collaborative Operation of Networked Microgrids With the Local Utility Grid Based on Enhanced Benders Decomposition. *Li, Z.*, +, *TSG May 2020 2638-2651*
- Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*
- Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. *Ganjian-Aboukheili, M.*, +, *TSG May 2020 2106-2114*
- Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. *Wu, Y.*, +, *TSG March 2020 1007-1017*
- Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication. *Lai, J.*, +, *TSG July 2020 2746-2759*
- Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*
- Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*
- Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*
- Power generation dispatch**
- A Novel Scheduling Strategy for Controllable Loads With Power-Efficiency Characteristics. *Wei, F.*, +, *TSG May 2020 2151-2161*
- An Interconnected Microgrids-Based Transactive Energy System With Multiple Electric Springs. *Liang, L.*, +, *TSG Jan. 2020 184-193*
- Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles. *Wang, B.*, +, *TSG May 2020 2324-2336*
- Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids. *Wang, S.*, +, *TSG Sept. 2020 3774-3784*
- Day-Ahead Energy Management for Pelagic Island Microgrid Groups Considering Non-Integer-Hour Energy Transmission. *Sui, Q.*, +, *TSG Nov. 2020 5249-5259*
- Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. *Lin, C.*, +, *TSG May 2020 2531-2540*
- Hierarchically-Coordinated Voltage/VAR Control of Distribution Networks Using PV Inverters. *Zhang, C.*, +, *TSG July 2020 2942-2953*
- Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S.*, +, *TSG Nov. 2020 4818-4832*
- Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*
- Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control. *Velasquez, M.A.*, +, *TSG May 2020 1968-1979*
- Minimizing Wind Power Curtailment Using a Continuous-Time Risk-Based Model of Generating Units and Bulk Energy Storage. *Nikoobakht, A.*, +, *TSG Nov. 2020 4833-4846*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.I.*, +, *TSG March 2020 1239-1252*
- Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*
- Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. *Arif, A.*, +, *TSG Jan. 2020 673-685*
- Resilient Collaborative Distributed Energy Management System Framework for Cyber-Physical DC Microgrids. *Cheng, Z.*, +, *TSG Nov. 2020 4637-4649*
- Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. *Ghorani, R.*, +, *TSG March 2020 1781-1791*
- Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S.*, +, *TSG March 2020 1030-1043*
- Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. *Badakhshan, S.*, +, *TSG Jan. 2020 118-128*



Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. *Zhang, G., +, TSG Nov. 2020 4700-4713*

Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. *Safdarian, F., +, TSG Sept. 2020 4544-4554*

Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J., +, TSG Nov. 2020 4938-4948*

VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. *Yazdaninejad, M., +, TSG July 2020 3632-3645*

Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J., +, TSG July 2020 3083-3094*

#### Power generation economics

A Block-of-Use Electricity Retail Pricing Approach Based on the Customer Load Profile. *Ma, Z., +, TSG March 2020 1500-1509*

A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs. *Yang, J., +, TSG March 2020 1724-1736*

A Novel Scheduling Strategy for Controllable Loads With Power-Efficiency Characteristics. *Wei, F., +, TSG May 2020 2151-2161*

A Real-Time Framework for Matching Prosumers With Minimum Risk in the Cluster of Microgrids. *Ryu, Y., +, TSG July 2020 2832-2844*

A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidizadeh-Kermani, H., +, TSG July 2020 3171-3184*

Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning. *Hajebrahimi, A., +, TSG Sept. 2020 4278-4289*

Affinely Adjustable Robust ADMM for Residential DER Coordination in Distribution Networks. *Attarha, A., +, TSG March 2020 1620-1629*

Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y., +, TSG Nov. 2020 4883-4890*

An Analytical Method for Generation Unit Aggregation in Virtual Power Plants. *Qu, M., +, TSG Nov. 2020 5466-5469*

An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W., +, TSG July 2020 2880-2891*

Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles. *Wang, B., +, TSG May 2020 2324-2336*

Cloud Computing and Local Chip-Based Dynamic Economic Dispatch for Microgrids. *Wang, S., +, TSG Sept. 2020 3774-3784*

Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H., +, TSG May 2020 2427-2439*

Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty. *Nikoobakht, A., +, TSG July 2020 3156-3170*

Coordinated Market Design for Peer-to-Peer Energy Trade and Ancillary Services in Distribution Grids. *Zhang, K., +, TSG July 2020 2929-2941*

Demand Response Cooperative and Demand Charge. *Elkasrawy, A., +, TSG Sept. 2020 4167-4175*

Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems. *Sayed, A.R., +, TSG May 2020 2092-2105*

Flexibility Reserve in Power Systems: Definition and Stochastic Multi-Fidelity Optimization. *Khatami, R., +, TSG Jan. 2020 644-654*

Generation Expansion Planning Considering the Rehabilitation of Aging Generating Units. *Farhoumandi, M., +, TSG July 2020 3384-3393*

Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S., +, TSG Nov. 2020 4818-4832*

Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control. *Velasquez, M.A., +, TSG May 2020 1968-1979*

Linearized Price-Responsive HVAC Controller for Optimal Scheduling of Smart Building Loads. *Ostadijafari, M., +, TSG July 2020 3131-3145*

Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W., +, TSG Sept. 2020 4105-4115*

Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W., +, TSG May 2020 2552-2562*

Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M., +, TSG Sept. 2020 4155-4166*

Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N., +, TSG March 2020 1771-1780*

Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making. *Junlakarn, S., +, TSG Sept. 2020 3970-3981*

Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. *Wang, Y., +, TSG March 2020 1286-1295*

Resilient Collaborative Distributed Energy Management System Framework for Cyber-Physical DC Microgrids. *Cheng, Z., +, TSG Nov. 2020 4637-4649*

Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. *Ghorani, R., +, TSG March 2020 1781-1791*

Robust Scheduling of Integrated Electricity and Heating System Hedging Heating Network Uncertainties. *Zhou, H., +, TSG March 2020 1543-1555*

Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S., +, TSG March 2020 1030-1043*

Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. *Badakhshan, S., +, TSG Jan. 2020 118-128*

Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. *Wu, Y., +, TSG March 2020 1007-1017*

Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X., +, TSG July 2020 2904-2917*

Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. *Safdarian, F., +, TSG Sept. 2020 4544-4554*

Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J., +, TSG Nov. 2020 4938-4948*

Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J., +, TSG July 2020 3083-3094*

#### Power generation faults

A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. *He, L., +, TSG March 2020 1737-1747*

A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M., +, TSG May 2020 2115-2124*

Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R., +, TSG Jan. 2020 483-500*

Evaluation of a Communication-Assisted Overcurrent Protection Scheme for Photovoltaic-Based DC Microgrid. *Shabani, A., +, TSG Jan. 2020 429-439*

Fault Current Mitigation and Voltage Support Provision by Microgrids With Synchronous Generators. *Liu, X., +, TSG July 2020 2816-2831*

Two-Stage WECC Composite Load Modeling: A Double Deep Q-Learning Networks Approach. *Wang, X., +, TSG Sept. 2020 4331-4344*

#### Power generation planning

A Fast Adequacy Analysis for Radial Distribution Networks Considering Reconfiguration and DGs. *Arefi, A., +, TSG Sept. 2020 3896-3909*

A Nonparametric Bayesian Methodology for Synthesizing Residential Solar Generation and Demand Data. *Power, T., +, TSG May 2020 2511-2519*

A Novel Approach for Seamless Probabilistic Photovoltaic Power Forecasting Covering Multiple Time Frames. *Carriere, T., +, TSG May 2020 2281-2292*

A Risk-Averse Conic Model for Networked Microgrids Planning With Reconfiguration and Reorganizations. *Cao, X., +, TSG Jan. 2020 696-709*

A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S., +, TSG May 2020 2140-2150*

Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning. *Hajebrahimi, A., +, TSG Sept. 2020 4278-4289*

Affinely Adjustable Robust ADMM for Residential DER Coordination in Distribution Networks. *Attarha, A., +, TSG March 2020 1620-1629*

Generation Expansion Planning Considering the Rehabilitation of Aging Generating Units. *Farhoumandi, M., +, TSG July 2020 3384-3393*

- Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. *Wang, S.*, +, *TSG May 2020 2709-2721*
- Large-Scale Generation and Validation of Synthetic PMU Data. *Idehen, I.*, +, *TSG Sept. 2020 4290-4298*
- Linear Formulations for Topology-Variable-Based Distribution System Reliability Assessment Considering Switching Interruptions. *Jooshaki, M.*, +, *TSG Sept. 2020 4032-4043*
- Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. *Zhang, G.*, +, *TSG Nov. 2020 4847-4859*
- Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. *Ghorani, R.*, +, *TSG March 2020 1781-1791*
- Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*
- Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*
- Power generation protection**
- Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*
- Power generation reliability**
- A Real-Time Framework for Matching Prosumers With Minimum Risk in the Cluster of Microgrids. *Ryu, Y.*, +, *TSG July 2020 2832-2844*
- Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*
- Enhancing Distribution System Resilience With Proactive Islanding and RCS-Based Fast Fault Isolation and Service Restoration. *Liu, J.*, +, *TSG May 2020 2381-2395*
- Flexibility Reserve in Power Systems: Definition and Stochastic Multi-Fidelity Optimization. *Khatami, R.*, +, *TSG Jan. 2020 644-654*
- Generation Expansion Planning Considering the Rehabilitation of Aging Generating Units. *Farhoumandi, M.*, +, *TSG July 2020 3384-3393*
- Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. *Wang, S.*, +, *TSG May 2020 2709-2721*
- Linear Formulations for Topology-Variable-Based Distribution System Reliability Assessment Considering Switching Interruptions. *Jooshaki, M.*, +, *TSG Sept. 2020 4032-4043*
- Microgrid Protection and Control Schemes for Seamless Transition to Island and Grid Synchronization. *Vukojevic, A.*, +, *TSG July 2020 2845-2855*
- Minimizing Wind Power Curtailment Using a Continuous-Time Risk-Based Model of Generating Units and Bulk Energy Storage. *Nikoobakht, A.*, +, *TSG Nov. 2020 4833-4846*
- Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. *Zhang, G.*, +, *TSG Nov. 2020 4847-4859*
- Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*
- Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making. *Junlakarn, S.*, +, *TSG Sept. 2020 3970-3981*
- Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. *He, R.*, +, *TSG Sept. 2020 3763-3773*
- Power generation scheduling**
- A Hybrid Stochastic-Interval Operation Strategy for Multi-Energy Microgrids. *Jiang, Y.*, +, *TSG Jan. 2020 440-456*
- A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*
- A Novel Retrospect-Inspired Regime for Microgrid Real-Time Energy Scheduling With Heterogeneous Sources. *Jia, Y.*, +, *TSG Nov. 2020 4614-4625*
- A Novel Scheduling Strategy for Controllable Loads With Power-Efficiency Characteristics. *Wei, F.*, +, *TSG May 2020 2151-2161*
- A Real Options Market-Based Approach to Increase Penetration of Renewables. *Aguiar, N.*, +, *TSG March 2020 1691-1701*
- A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidizadeh-Kermani, H.*, +, *TSG July 2020 3171-3184*
- Chance-Constrained Optimization of Energy Storage Capacity for Microgrids. *Yahya Soltani, N.*, +, *TSG July 2020 2760-2770*
- Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H.*, +, *TSG May 2020 2427-2439*
- Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty. *Nikoobakht, A.*, +, *TSG July 2020 3156-3170*
- Day-Ahead Energy Management for Pelagic Island Microgrid Groups Considering Non-Integer-Hour Energy Transmission. *Sui, Q.*, +, *TSG Nov. 2020 5249-5259*
- Deliverable Energy Flexibility Scheduling for Active Distribution Networks. *Oikonomou, K.*, +, *TSG Jan. 2020 655-664*
- Flexibility Reserve in Power Systems: Definition and Stochastic Multi-Fidelity Optimization. *Khatami, R.*, +, *TSG Jan. 2020 644-654*
- Hierarchical Scheduling of Aggregated TCL Flexibility for Transactive Energy in Power Systems. *Song, M.*, +, *TSG May 2020 2452-2463*
- Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*
- Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control. *Velasquez, M.A.*, +, *TSG May 2020 1968-1979*
- Linearized Hybrid Stochastic/Robust Scheduling of Active Distribution Networks Encompassing PVs. *Baharvandi, A.*, +, *TSG Jan. 2020 357-367*
- Minimizing Wind Power Curtailment Using a Continuous-Time Risk-Based Model of Generating Units and Bulk Energy Storage. *Nikoobakht, A.*, +, *TSG Nov. 2020 4833-4846*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Optimal Energy Storage System Operation for Peak Reduction in a Distribution Network Using a Prediction Interval. *Kodaira, D.*, +, *TSG May 2020 2208-2217*
- Optimal Management of Transactive Distribution Electricity Markets With Co-Optimized Bidirectional Energy and Ancillary Service Exchanges. *Wu, Y.*, +, *TSG Nov. 2020 4650-4661*
- Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Ly, S.*, +, *TSG May 2020 1854-1865*
- Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. *Arif, A.*, +, *TSG Jan. 2020 673-685*
- Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. *Ghorani, R.*, +, *TSG March 2020 1781-1791*
- Robust Scheduling of Integrated Electricity and Heating System Hedging Heating Network Uncertainties. *Zhou, H.*, +, *TSG March 2020 1543-1555*
- Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S.*, +, *TSG March 2020 1030-1043*
- Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. *Badakhshan, S.*, +, *TSG Jan. 2020 118-128*
- Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. *Zhang, G.*, +, *TSG Nov. 2020 4700-4713*
- Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. *Wu, Y.*, +, *TSG March 2020 1007-1017*
- Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. *Safdarian, F.*, +, *TSG Sept. 2020 4544-4554*
- Toward a Retail Market for Distribution Grids. *Haider, R.*, +, *TSG Nov. 2020 4891-4905*
- Two-Stage Convexification-Based Optimal Electricity-Gas Flow. *Yang, L.*, +, *TSG March 2020 1465-1475*
- Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J.*, +, *TSG Nov. 2020 4938-4948*
- VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. *Yazdanejad, M.*, +, *TSG July 2020 3632-3645*

**Power grids**

- $H_\infty$ -Control of Grid-Connected Converters: Design, Objectives and Decentralized Stability Certificates. *Huang, L.*, +, *TSG Sept. 2020 3805-3816*
- iCASM: An Information-Centric Network Architecture for Wide Area Measurement Systems. *Ravikumar, G.*, +, *TSG July 2020 3418-3427*
- A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. *He, L.*, +, *TSG March 2020 1737-1747*
- A Cyber-Attack Resilient Distributed Control Strategy in Islanded Microgrids. *Zhou, Q.*, +, *TSG Sept. 2020 3690-3701*
- A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*
- A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S.*, +, *TSG Nov. 2020 4916-4927*
- A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. *Yao, W.*, +, *TSG Jan. 2020 895-904*
- A Graphical Measure of Aggregate Flexibility for Energy-Constrained Distributed Resources. *Evans, M.P.*, +, *TSG Jan. 2020 106-117*
- A Hierarchical Power Grid Fault Diagnosis Method Using Multi-Source Information. *Wang, S.*, +, *TSG May 2020 2067-2079*
- A Learning-to-Infer Method for Real-Time Power Grid Multi-Line Outage Identification. *Zhao, Y.*, +, *TSG Jan. 2020 555-564*
- A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*
- A Novel Approach for Seamless Probabilistic Photovoltaic Power Forecasting Covering Multiple Time Frames. *Carriere, T.*, +, *TSG May 2020 2281-2292*
- A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. *Yang, J.*, +, *TSG Sept. 2020 4056-4069*
- A Prediction-Based Hierarchical Delay Compensation (PHDC) Technique Enhanced by Increment Autoregression Prediction for Wide-Area Control Systems. *Zhang, F.*, +, *TSG March 2020 1253-1263*
- A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S.*, +, *TSG May 2020 2140-2150*
- Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning. *Hajebrahimi, A.*, +, *TSG Sept. 2020 4278-4289*
- Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020 1171-1182*
- Affinely Adjustable Robust ADMM for Residential DER Coordination in Distribution Networks. *Attarha, A.*, +, *TSG March 2020 1620-1629*
- Agent-Based Distributed Computing for Power System State Estimation. *Saxena, K.*, +, *TSG Nov. 2020 5193-5202*
- Ancillary Services Provision Utilizing a Network of Fast-Charging Stations for Electrical Buses. *Lymperopoulos, I.*, +, *TSG Jan. 2020 665-672*
- Automated Identification of Electrical Disturbance Waveforms Within an Operational Smart Power Grid. *Wilson, A.J.*, +, *TSG Sept. 2020 4380-4389*
- Autonomous Coordinated Control Scheme for Cooperative Asymmetric Low-Voltage Ride-Through and Grid Support in Active Distribution Networks With Multiple DG Units. *Shabestary, M.M.*, +, *TSG May 2020 2125-2139*
- Building Large-Scale U.S. Synthetic Electric Distribution System Models. *Mateo, C.*, +, *TSG Nov. 2020 5301-5313*
- Bus Clustering for Distribution Grid Topology Identification. *Cavvaro, G.*, +, *TSG Sept. 2020 4080-4089*
- Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles. *Wang, B.*, +, *TSG May 2020 2324-2336*
- Chance-Constrained Optimization of Energy Storage Capacity for Microgrids. *Yahya Soltani, N.*, +, *TSG July 2020 2760-2770*
- Characterizing the Reserve Provision Capability Area of Active Distribution Networks: A Linear Robust Optimization Method. *Kalantar-Neyestanaki, M.*, +, *TSG May 2020 2464-2475*
- Cloud-Edge Cooperative Model and Closed-Loop Control Strategy for the Price Response of Large-Scale Air Conditioners Considering Data Packet Dropouts. *Jiang, A.*, +, *TSG Sept. 2020 4201-4211*
- Constrained Thompson Sampling for Real-Time Electricity Pricing With Grid Reliability Constraints. *Tucker, N.*, +, *TSG Nov. 2020 4971-4983*
- Convex Relaxation of Grid-Connected Energy Storage System Models With Complementarity Constraints in DC OPF. *Garifi, K.*, +, *TSG Sept. 2020 4070-4079*
- Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. *Afshari, A.*, +, *TSG May 2020 1866-1879*
- Coordinated Market Design for Peer-to-Peer Energy Trade and Ancillary Services in Distribution Grids. *Zhang, K.*, +, *TSG July 2020 2929-2941*
- Coordination of Electric Vehicle Charging Through Multiagent Reinforcement Learning. *Silva, F.L.D.*, +, *TSG May 2020 2347-2356*
- Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. *Razavi-Far, R.*, +, *TSG March 2020 1453-1464*
- CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency. *Venkataramanan, V.*, +, *TSG March 2020 1055-1065*
- CP-TRAM: Cyber-Physical Transmission Resiliency Assessment Metric. *Tushar, .*, +, *TSG Nov. 2020 5114-5123*
- Cyber Physical Security Analytics for Transactive Energy Systems. *Zhang, Y.*, +, *TSG March 2020 931-941*
- Data-Driven Event Detection of Power Systems Based on Unequal-Interval Reduction of PMU Data and Local Outlier Factor. *Liu, S.*, +, *TSG March 2020 1630-1643*
- Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. *Lin, C.*, +, *TSG May 2020 2531-2540*
- Decentralized and Per-Unit Primary Control Framework for DC Distribution Networks With Multiple Voltage Levels. *Wang, X.*, +, *TSG Sept. 2020 3993-4004*
- Decentralized Robust State Estimation of Active Distribution Grids Incorporating Microgrids Based on PMU Measurements. *Lin, C.*, +, *TSG Jan. 2020 810-820*
- Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System. *Sanchez Gorostiza, F.*, +, *TSG Nov. 2020 5039-5050*
- Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control. *Shabshab, S.C.*, +, *TSG May 2020 1917-1927*
- Design of a Seamless Grid-Connected Inverter for Microgrid Applications. *Lo, K.*, +, *TSG Jan. 2020 194-202*
- Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. *Jalali, M.*, +, *TSG March 2020 1759-1770*
- Differential Privacy for Power Grid Obfuscation. *Fioretto, F.*, +, *TSG March 2020 1356-1366*
- Distorted Stability Space and Instability Triggering Mechanism of EV Aggregation Delays in the Secondary Frequency Regulation of Electrical Grid-Electric Vehicle System. *Dong, C.*, +, *TSG Nov. 2020 5084-5098*
- Distributed Control Strategy Based on a Consensus Algorithm and on the Conservative Power Theory for Imbalance and Harmonic Sharing in 4-Wire Microgrids. *Burgos-Mellado, C.*, +, *TSG March 2020 1604-1619*
- Distributed Optimal Control of Energy Storages in a DC Microgrid With Communication Delay. *Shi, M.*, +, *TSG May 2020 2033-2042*
- Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*
- Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. *Xing, L.*, +, *TSG May 2020 2487-2497*
- Double Deep Q-Learning-Based Distributed Operation of Battery Energy Storage System Considering Uncertainties. *Bui, Y.-H.*, +, *TSG Jan. 2020 457-469*
- Dummy Data Attacks in Power Systems. *Liu, X.*, +, *TSG March 2020 1792-1795*
- Estimating the Profile of Incentive-Based Demand Response (IBDR) by Integrating Technical Models and Social-Behavioral Factors. *Shi, Q.*, +, *TSG Jan. 2020 171-183*
- Fast Frequency Response From Energy Storage Systems—A Review of Grid Standards, Projects and Technical Issues. *Meng, L.*, +, *TSG March 2020 1566-1581*

- Fault Current Mitigation and Voltage Support Provision by Microgrids With Synchronous Generators. *Liu, X.*, +, *TSG July 2020 2816-2831*
- Flexibility Estimation and Control of Thermostatically Controlled Loads With Lock Time for Regulation Service. *Wang, P.*, +, *TSG July 2020 3221-3230*
- Forming a Reliable Hybrid Microgrid Using Electric Spring Coupled With Non-Sensitive Loads and ESS. *Zhang, G.*, +, *TSG July 2020 2867-2879*
- Frequency Disturbance Triggered D-Axis Current Injection Scheme for Islanding Detection. *Ganivada, P.K.*, +, *TSG Nov. 2020 4587-4603*
- Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*
- Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*
- Graphical Models in Meshed Distribution Grids: Topology Estimation, Change Detection & Limitations. *Deka, D.*, +, *TSG Sept. 2020 4299-4310*
- Grid Influenced Peer-to-Peer Energy Trading. *Tushar, W.*, +, *TSG March 2020 1407-1418*
- Grid-Constrained Distributed Optimization for Frequency Control With Low-Voltage Flexibility. *Engels, J.*, +, *TSG Jan. 2020 612-622*
- Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control. *Huang, L.*, +, *TSG Jan. 2020 501-516*
- Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*
- Hierarchical Coordination of Two-Time Scale Microgrids With Supply-Demand Imbalance. *Du, Y.*, +, *TSG Sept. 2020 3726-3736*
- Hierarchical Distributed Voltage Optimization Method for HV and MV Distribution Networks. *Chai, Y.*, +, *TSG March 2020 968-980*
- Impact of Cascading and Common-Cause Outages on Resilience-Constrained Optimal Economic Operation of Power Systems. *Wang, Y.*, +, *TSG Jan. 2020 590-601*
- Large-Scale Generation and Validation of Synthetic PMU Data. *Idehen, I.*, +, *TSG Sept. 2020 4290-4298*
- Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. *Chang, F.*, +, *TSG Nov. 2020 5273-5287*
- Line Impedance Cooperative Stability Region Identification Method for Grid-Tied Inverters Under Weak Grids. *Rui, W.*, +, *TSG July 2020 2856-2866*
- Linearized Hybrid Stochastic/Robust Scheduling of Active Distribution Networks Encompassing PVs. *Baharvandi, A.*, +, *TSG Jan. 2020 357-367*
- Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements. *Ramapuram Matavalam, A.R.*, +, *TSG Jan. 2020 873-883*
- Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W.*, +, *TSG Sept. 2020 4105-4115*
- Multiple Communication Topologies for PMU-Based Applications: Introduction, Analysis and Simulation. *Ye, F.*, +, *TSG Nov. 2020 5051-5061*
- New Analysis Framework for Transient Stability Evaluation of DC Microgrids. *Xia, Y.*, +, *TSG July 2020 2794-2804*
- On the Round-Trip Efficiency of an HVAC-Based Virtual Battery. *Raman, N.S.*, +, *TSG Jan. 2020 403-410*
- Operation of Distribution Network Considering Compressed Air Energy Storage Unit and Its Reactive Power Support Capability. *Guo, Z.*, +, *TSG July 2020 2954-2965*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.L.*, +, *TSG March 2020 1239-1252*
- Outage Detection in Partially Observable Distribution Systems Using Smart Meters and Generative Adversarial Networks. *Yuan, Y.*, +, *TSG Nov. 2020 5418-5430*
- Peer-to-Peer Trading in Electricity Networks: An Overview. *Tushar, W.*, +, *TSG July 2020 3185-3200*
- Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*
- Privacy-Preserving Collaborative Operation of Networked Microgrids With the Local Utility Grid Based on Enhanced Benders Decomposition. *Li, Z.*, +, *TSG May 2020 2638-2651*
- Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making. *Junlakarn, S.*, +, *TSG Sept. 2020 3970-3981*
- Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling. *Perroy, E.*, +, *TSG Jan. 2020 26-36*
- Public Plug-in Electric Vehicles + Grid Data: Is a New Cyberattack Vector Viable?. *Acharya, S.*, +, *TSG Nov. 2020 5099-5113*
- Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*
- Scalable and Robust State Estimation From Abundant But Untrusted Data. *Jin, M.*, +, *TSG May 2020 1880-1894*
- Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. *Ganjian-Aboukheili, M.*, +, *TSG May 2020 2106-2114*
- Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*
- Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseini pour, A.*, +, *TSG Sept. 2020 3737-3747*
- Steady-State Simulation for Combined Transmission and Distribution Systems. *Pandey, A.*, +, *TSG March 2020 1124-1135*
- Synchrophasor-Based Condition Monitoring of Instrument Transformers Using Clustering Approach. *Cui, B.*, +, *TSG May 2020 2688-2698*
- Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*
- Towards Plug-and-Play Protection for Meshed Distribution Systems With DG. *Tsimtsios, A.M.*, +, *TSG May 2020 1980-1995*
- Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems. *Jia, K.*, +, *TSG Jan. 2020 323-333*
- Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*
- Unbalanced Voltage Suppression in a Bipolar DC Distribution Network Based on DC Electric Springs. *Liao, J.*, +, *TSG March 2020 1667-1678*
- UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability. *Kosen, I.*, +, *TSG Jan. 2020 739-748*
- Using a Supercapacitor to Mitigate Battery Microcycles Due to Wind Shear and Tower Shadow Effects in Wind-Diesel Microgrids. *Mohammadi, E.*, +, *TSG Sept. 2020 3677-3689*
- Virtual Inertia From Smart Loads. *Chen, T.*, +, *TSG Sept. 2020 4311-4320*
- WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*
- Power markets**
- A Block-of-Use Electricity Retail Pricing Approach Based on the Customer Load Profile. *Ma, Z.*, +, *TSG March 2020 1500-1509*
- A Data-Driven Pattern Extraction Method for Analyzing Bidding Behaviors in Power Markets. *Guo, H.*, +, *TSG July 2020 3509-3521*
- A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs. *Yang, J.*, +, *TSG March 2020 1724-1736*
- A Hierarchical Control Framework With a Novel Bidding Scheme for Residential Community Energy Optimization. *Paudyal, P.*, +, *TSG Jan. 2020 710-719*
- A Market Framework for Decentralized Congestion Management in Smart Distribution Grids Considering Collaboration Among Electric Vehicle Aggregators. *Asrari, A.*, +, *TSG March 2020 1147-1158*
- A Market Mechanism for Virtual Inertia. *Poolla, B.K.*, +, *TSG July 2020 3570-3579*
- A Methodological Framework to support Load Forecast Error Assessment in Local Energy Markets. *Schreck, S.*, +, *TSG July 2020 3212-3220*
- A Mid-Term DSO Market for Capacity Limits: How to Estimate Opportunity Costs of Aggregators?. *Ziras, C.*, +, *TSG Jan. 2020 334-345*

- A Novel Approach for Seamless Probabilistic Photovoltaic Power Forecasting Covering Multiple Time Frames. *Carriere, T.*, +, *TSG May 2020 2281-2292*
- A Novel Peer-to-Peer Local Electricity Market for Joint Trading of Energy and Uncertainty. *Zhang, Z.*, +, *TSG March 2020 1205-1215*
- A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. *Yang, J.*, +, *TSG Sept. 2020 4056-4069*
- A Real Options Market-Based Approach to Increase Penetration of Renewables. *Aguiar, N.*, +, *TSG March 2020 1691-1701*
- A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidzadeh-Kermani, H.*, +, *TSG July 2020 3171-3184*
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- Active Distribution Grids Offering Ancillary Services in Islanded and Grid-Connected Mode. *Karagiannopoulos, S.*, +, *TSG Jan. 2020 623-633*
- An Analytical Method for Generation Unit Aggregation in Virtual Power Plants. *Qu, M.*, +, *TSG Nov. 2020 5466-5469*
- An Efficient Robust Approach to the Day-Ahead Operation of an Aggregator of Electric Vehicles. *Porrás, A.*, +, *TSG Nov. 2020 4960-4970*
- An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*
- Bus Clustering for Distribution Grid Topology Identification. *Cavvaro, G.*, +, *TSG Sept. 2020 4080-4089*
- Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty. *Nikoobakht, A.*, +, *TSG July 2020 3156-3170*
- Coordinated Market Design for Peer-to-Peer Energy Trade and Ancillary Services in Distribution Grids. *Zhang, K.*, +, *TSG July 2020 2929-2941*
- Core-Selecting Mechanisms in Electricity Markets. *Karaca, O.*, +, *TSG May 2020 2604-2614*
- Day-Ahead Market Participation of an Active Distribution Network Equipped With Small-Scale CAES Systems. *Jabbari Ghadi, M.*, +, *TSG July 2020 2966-2979*
- Deep Reinforcement Learning for Strategic Bidding in Electricity Markets. *Ye, Y.*, +, *TSG March 2020 1343-1355*
- Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*
- Deliverable Energy Flexibility Scheduling for Active Distribution Networks. *Oikonomou, K.*, +, *TSG Jan. 2020 655-664*
- Demand Response Cooperative and Demand Charge. *Elkasrawy, A.*, +, *TSG Sept. 2020 4167-4175*
- Distribution Network Marginal Costs: Enhanced AC OPF Including Transformer Degradation. *Andrianesis, P.*, +, *TSG Sept. 2020 3910-3920*
- Energy Peer-to-Peer Trading in Virtual Microgrids in Smart Grids: A Game-Theoretic Approach. *Anoh, K.*, +, *TSG March 2020 1264-1275*
- Enhancement of Distribution System Reliability: A Framework Based on Cournot Game Model. *Mohammadi, R.*, +, *TSG May 2020 2172-2181*
- Flexibility Reserve in Power Systems: Definition and Stochastic Multi-Fidelity Optimization. *Khatami, R.*, +, *TSG Jan. 2020 644-654*
- Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*
- Hierarchical Coordination of Two-Time Scale Microgrids With Supply-Demand Imbalance. *Du, Y.*, +, *TSG Sept. 2020 3726-3736*
- Hierarchical Scheduling of Aggregated TCL Flexibility for Transactive Energy in Power Systems. *Song, M.*, +, *TSG May 2020 2452-2463*
- Incentive-Based Integrated Demand Response for Multiple Energy Carriers Considering Behavioral Coupling Effect of Consumers. *Zheng, S.*, +, *TSG July 2020 3231-3245*
- Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. *Salimi, M.*, +, *TSG Sept. 2020 4390-4402*
- Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*
- Integrating P2P Energy Trading With Probabilistic Distribution Locational Marginal Pricing. *Morstyn, T.*, +, *TSG July 2020 3095-3106*
- Locational Marginal Price Forecasting: A Componential and Ensemble Approach. *Zheng, K.*, +, *TSG Sept. 2020 4555-4564*
- Locational Marginal Value of Distributed Energy Resources as Non-Wires Alternatives. *Andrianesis, P.*, +, *TSG Jan. 2020 270-280*
- Low-Carbon Operation of Multiple Energy Systems Based on Energy-Carbon Integrated Prices. *Cheng, Y.*, +, *TSG March 2020 1307-1318*
- Methods for Flexible Management of Blockchain-Based Cryptocurrencies in Electricity Markets and Smart Grids. *Ghorbanian, M.*, +, *TSG Sept. 2020 4227-4235*
- Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W.*, +, *TSG Sept. 2020 4105-4115*
- On the Fairness of PV Curtailment Schemes in Residential Distribution Networks. *Liu, M.Z.*, +, *TSG Sept. 2020 4502-4512*
- Online Learning for Network Constrained Demand Response Pricing in Distribution Systems. *Mieth, R.*, +, *TSG May 2020 2563-2575*
- Optimal Bidding and Operation Strategies for EV Aggregators by Regrouping Aggregated EV Batteries. *Han, S.*, +, *TSG Nov. 2020 4928-4937*
- Optimal Combination of Frequency Control and Peak Shaving With Battery Storage Systems. *Engels, J.*, +, *TSG July 2020 3270-3279*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Optimal Management of Transactive Distribution Electricity Markets With Co-Optimized Bidirectional Energy and Ancillary Service Exchanges. *Wu, Y.*, +, *TSG Nov. 2020 4650-4661*
- Optimal Participation of Residential Aggregators in Energy and Local Flexibility Markets. *Correa-Florez, C.A.*, +, *TSG March 2020 1644-1656*
- Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N.*, +, *TSG March 2020 1771-1780*
- Optimum Operation of Battery Storage System in Frequency Containment Reserves Markets. *Hasanpor Divshali, P.*, +, *TSG Nov. 2020 4906-4915*
- Peer-to-Peer Energy Trading in Smart Grid Considering Power Losses and Network Fees. *Paudel, A.*, +, *TSG Nov. 2020 4727-4737*
- Peer-to-Peer Trading in Electricity Networks: An Overview. *Tushar, W.*, +, *TSG July 2020 3185-3200*
- Power System Parameter Attack for Financial Profits in Electricity Markets. *Xu, H.*, +, *TSG July 2020 3438-3446*
- Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making. *Junlakarn, S.*, +, *TSG Sept. 2020 3970-3981*
- Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. *Wang, Y.*, +, *TSG March 2020 1286-1295*
- Risk-Based Networked-Constrained Unit Commitment Considering Correlated Power System Uncertainties. *Ghorani, R.*, +, *TSG March 2020 1781-1791*
- Robust Coordination Expansion Planning for Active Distribution Network in Deregulated Retail Power Market. *Huang, C.*, +, *TSG March 2020 1476-1488*
- Toward a Retail Market for Distribution Grids. *Haider, R.*, +, *TSG Nov. 2020 4891-4905*
- Transactive Energy Based Aggregation of Prosumers as a Retailer. *Xiao, Y.*, +, *TSG July 2020 3302-3312*
- Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J.*, +, *TSG July 2020 3083-3094*

#### Power measurement

- Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*
- Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*
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- Separating Feeder Demand Into Components Using Substation, Feeder, and Smart Meter Measurements. *Ledva, G.S.*, +, *TSG July 2020 3280-3290*

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Hierarchical Clustering for Smart Meter Electricity Loads Based on Quantile Autocovariances. *Alonso, A.M.*, +, *TSG Sept. 2020 4522-4530*

Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N.*, +, *TSG March 2020 1771-1780*

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Towards Plug-and-Play Protection for Meshed Distribution Systems With DG. *Tsimtsios, A.M.*, +, *TSG May 2020 1980-1995*

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An Analytical Method for Generation Unit Aggregation in Virtual Power Plants. *Qu, M.*, +, *TSG Nov. 2020 5466-5469*

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Distributed Cluster Cooperation for Multiple DC MGs Over Two-Layer Switching Topologies. *Lu, X.*, +, *TSG Nov. 2020 4676-4687*

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A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*

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Design and Implementation of a Data-Driven Approach to Visualizing Power Quality. *Xiao, F.*, +, *TSG Sept. 2020 4366-4379*

Distributed Control Strategy Based on a Consensus Algorithm and on the Conservative Power Theory for Imbalance and Harmonic Sharing in 4-Wire Microgrids. *Burgos-Mellado, C.*, +, *TSG March 2020 1604-1619*

Frequency Disturbance Triggered D-Axis Current Injection Scheme for Islanding Detection. *Ganivada, P.K.*, +, *TSG Nov. 2020 4587-4603*

Non-Linear Primary Control Mapping for Droop-Like Behavior of Microgrid Systems. *Legry, M.*, +, *TSG Nov. 2020 4604-4613*

Unbalanced Voltage Suppression in a Bipolar DC Distribution Network Based on DC Electric Springs. *Liao, J.*, +, *TSG March 2020 1667-1678*

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Automated Identification of Electrical Disturbance Waveforms Within an Operational Smart Power Grid. *Wilson, A.J.*, +, *TSG Sept. 2020 4380-4389*

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Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*

Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems. *Jia, K.*, +, *TSG Jan. 2020 323-333*

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A Cyber-Attack Resilient Distributed Control Strategy in Islanded Microgrids. *Zhou, Q.*, +, *TSG Sept. 2020 3690-3701*

A Practical Secondary Frequency Control Strategy for Virtual Synchronous Generator. *Jiang, K.*, +, *TSG May 2020 2734-2736*

A Prediction-Based Hierarchical Delay Compensation (PHDC) Technique Enhanced by Increment Autoregression Prediction for Wide-Area Control Systems. *Zhang, F.*, +, *TSG March 2020 1253-1263*

A Priority-Based Control Strategy and Performance Bound for Aggregated HVAC-Based Load Shaping. *Hu, X.*, +, *TSG Sept. 2020 4133-4143*

Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020 1171-1182*

Data-Driven Event Detection of Power Systems Based on Unequal-Interval Reduction of PMU Data and Local Outlier Factor. *Liu, S.*, +, *TSG March 2020 1630-1643*

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

Deep Reinforcement Learning-Based Approach for Proportional Resonance Power System Stabilizer to Prevent Ultra-Low-Frequency Oscillations. *Zhang, G.*, +, *TSG Nov. 2020 5260-5272*

Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System. *Sanchez Gorostiza, F.*, +, *TSG Nov. 2020 5039-5050*

Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control. *Shabshab, S.C.*, +, *TSG May 2020 1917-1927*

Design and Validation of a Wide Area Monitoring and Control System for Fast Frequency Response. *Hong, Q.*, +, *TSG July 2020 3394-3404*

Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees. *Mohiuddin, S.M.*, +, *TSG May 2020 1956-1967*

Fast Frequency Response From Energy Storage Systems—A Review of Grid Standards, Projects and Technical Issues. *Meng, L.*, +, *TSG March 2020 1566-1581*

Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020 391-402*

Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control. *Huang, L.*, +, *TSG Jan. 2020 501-516*

Guest Editorial Theory and Application of PMUs in Power Distribution Systems. *Mohsenian-Rad, H.*, +, *TSG Jan. 2020 723-725*

Malicious Corruption Resilience in PMU Data and Wide-Area Damping Control. *Mahapatra, K.*, +, *TSG March 2020 958-967*

Methodology for Reliability Assessment of Smart Grid Considering Risk of Failure of Communication Architecture. *Zhu, W.*, +, *TSG Sept. 2020 4358-4365*

Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*

Optimum Operation of Battery Storage System in Frequency Containment Reserves Markets. *Hasanpor Divshali, P.*, +, *TSG Nov. 2020 4906-4915*

Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication. *Lai, J.*, +, *TSG July 2020 2746-2759*

Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. *Dobbe, R.*, +, *TSG March 2020 1296-1306*

Wide-Area Robust Sliding Mode Controller for Power Systems With False Data Injection Attacks. *Li, M.*, +, *TSG March 2020 922-930*

**Power system dynamic stability**

Deep Reinforcement Learning-Based Approach for Proportional Resonance Power System Stabilizer to Prevent Ultra-Low-Frequency Oscillations. *Zhang, G.*, +, *TSG Nov. 2020 5260-5272*

**Power system economics**

Closure to “Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems”. *Alkaabi, S.S.*, +, *TSG March 2020 1813-1815*

Discussion on “Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems”. *Khalid, M.*, *TSG March 2020 1812*

Distribution Network Marginal Costs: Enhanced AC OPF Including Transformer Degradation. *Andrianesis, P.*, +, *TSG Sept. 2020 3910-3920*

Fast Frequency Response From Energy Storage Systems—A Review of Grid Standards, Projects and Technical Issues. *Meng, L.*, +, *TSG March 2020 1566-1581*

Grid Influenced Peer-to-Peer Energy Trading. *Tushar, W.*, +, *TSG March 2020 1407-1418*

Impact of Cascading and Common-Cause Outages on Resilience-Constrained Optimal Economic Operation of Power Systems. *Wang, Y.*, +, *TSG Jan. 2020 590-601*

Peer-to-Peer Energy Trading in Smart Grid Considering Power Losses and Network Fees. *Paudel, A.*, +, *TSG Nov. 2020 4727-4737*

**Power system faults**

A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*

A Self-Adaptive Contractive Algorithm for Enhanced Dynamic Phasor Estimation. *Messina, F.*, +, *TSG May 2020 2367-2380*

Automated Identification of Electrical Disturbance Waveforms Within an Operational Smart Power Grid. *Wilson, A.J.*, +, *TSG Sept. 2020 4380-4389*

Fog-Computing-Based Short-Circuit Diagnosis Scheme. *Tong, J.*, +, *TSG July 2020 3359-3371*

Spatio-Temporal Correlation Analysis of Online Monitoring Data for Anomaly Detection and Location in Distribution Networks. *Shi, X.*, +, *TSG March 2020 995-1006*

#### Power system harmonics

A Self-Adaptive Contractive Algorithm for Enhanced Dynamic Phasor Estimation. *Messina, F.*, +, *TSG May 2020 2367-2380*

Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions. *Peng, Y.*, +, *TSG March 2020 1330-1342*

PEV Fast-Charging Station Sizing and Placement in Coupled Transportation-Distribution Networks Considering Power Line Conditioning Capability. *Hashemian, S.N.*, +, *TSG Nov. 2020 4773-4783*

#### Power system identification

Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

Two-Stage WECC Composite Load Modeling: A Double Deep Q-Learning Networks Approach. *Wang, X.*, +, *TSG Sept. 2020 4331-4344*

#### Power system interconnection

An Interconnected Microgrids-Based Transactive Energy System With Multiple Electric Springs. *Liang, L.*, +, *TSG Jan. 2020 184-193*

Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F.*, +, *TSG May 2020 2476-2486*

Data-Driven Event Detection of Power Systems Based on Unequal-Interval Reduction of PMU Data and Local Outlier Factor. *Liu, S.*, +, *TSG March 2020 1630-1643*

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*

Deterministic Dynamic State Estimation-Based Optimal LFC for Interconnected Power Systems Using Unknown Input Observer. *Haes Alhelou, H.*, +, *TSG March 2020 1582-1592*

Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements. *Ramapuram Matavalam, A.R.*, +, *TSG Jan. 2020 873-883*

#### Power system management

A Market Framework for Decentralized Congestion Management in Smart Distribution Grids Considering Collaboration Among Electric Vehicle Aggregators. *Asrari, A.*, +, *TSG March 2020 1147-1158*

Automating the Verification of the Low Voltage Network Cables and Topologies. *Mokhtar, M.*, +, *TSG March 2020 1657-1666*

Centralised and Distributed Optimization for Aggregated Flexibility Services Provision. *Olivella-Rosell, P.*, +, *TSG July 2020 3257-3269*

Generation Expansion Planning Considering the Rehabilitation of Aging Generating Units. *Farhoumandi, M.*, +, *TSG July 2020 3384-3393*

On the Fairness of PV Curtailment Schemes in Residential Distribution Networks. *Liu, M.Z.*, +, *TSG Sept. 2020 4502-4512*

Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*

Power Management in Active Distribution Systems Penetrated by Photovoltaic Inverters: A Data-Driven Robust Approach. *Mancilla-David, F.*, +, *TSG May 2020 2271-2280*

Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*

#### Power system measurement

iCASM: An Information-Centric Network Architecture for Wide Area Measurement Systems. *Ravikumar, G.*, +, *TSG July 2020 3418-3427*

A Hybrid Event Detection Approach for Non-Intrusive Load Monitoring. *Lu, M.*, +, *TSG Jan. 2020 528-540*

A New Approach to Reliability Assessment and Improvement of Synchronizer Communications in Smart Grids. *Seyedi, Y.*, +, *TSG Sept. 2020 4415-4426*

A Practical Solution for Non-Intrusive Type II Load Monitoring Based on Deep Learning and Post-Processing. *Kong, W.*, +, *TSG Jan. 2020 148-160*

A Prediction-Based Hierarchical Delay Compensation (PHDC) Technique Enhanced by Increment Autoregression Prediction for Wide-Area Control Systems. *Zhang, F.*, +, *TSG March 2020 1253-1263*

Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*

Automated Identification of Electrical Disturbance Waveforms Within an Operational Smart Power Grid. *Wilson, A.J.*, +, *TSG Sept. 2020 4380-4389*

Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models. *Kaselimi, M.*, +, *TSG July 2020 3054-3067*

Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. *Razavi-Far, R.*, +, *TSG March 2020 1453-1464*

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

Deep Learning-Based Real-Time Building Occupancy Detection Using AMI Data. *Feng, C.*, +, *TSG Sept. 2020 4490-4501*

Design and Implementation of a Data-Driven Approach to Visualizing Power Quality. *Xiao, F.*, +, *TSG Sept. 2020 4366-4379*

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

Dynamic State Estimation for Power Networks by Distributed Unscented Information Filter. *Yang, J.*, +, *TSG May 2020 2162-2171*

Frequency Disturbance Event Detection Based on Synchronphasors and Deep Learning. *Wang, W.*, +, *TSG July 2020 3593-3605*

Graph-Based Faulted Line Identification Using Micro-PMU Data in Distribution Systems. *Zhang, Y.*, +, *TSG Sept. 2020 3982-3992*

High Frequency Transient Sparse Measurement-Based Fault Location for Complex DC Distribution Networks. *Jia, K.*, +, *TSG Jan. 2020 312-322*

Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security. *Roberts, C.*, +, *TSG Jan. 2020 749-761*

Model-Free Data Authentication for Cyber Security in Power Systems. *Liu, S.*, +, *TSG Sept. 2020 4565-4568*

Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements. *Ramapuram Matavalam, A.R.*, +, *TSG Jan. 2020 873-883*

Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*

Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*

Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

Synchronphasor Missing Data Recovery via Data-Driven Filtering. *Konstantinopoulos, S.*, +, *TSG Sept. 2020 4321-4330*

Synchronphasor-Based Condition Monitoring of Instrument Transformers Using Clustering Approach. *Cui, B.*, +, *TSG May 2020 2688-2698*

Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*

UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability. *Kosen, I.*, +, *TSG Jan. 2020 739-748*

Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*

#### Power system parameter estimation

WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F.*, +, *TSG Nov. 2020 5407-5417*

#### Power system planning

Closure to "Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems". *Alkaabi, S.S.*, +, *TSG March 2020 1813-1815*

Discussion on "Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems". *Khalid, M.*, *TSG March 2020 1812*

Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method. *Xu, Y.*, +, *TSG March 2020 1593-1603*

**Power system protection**

- Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. *Razavi-Far, R.*, +, *TSG March 2020 1453-1464*
- Fog-Computing-Based Short-Circuit Diagnosis Scheme. *Tong, J.*, +, *TSG July 2020 3359-3371*
- Modulated Low Fault-Energy Protection Scheme for DC Smart Grids. *Li, C.*, +, *TSG Jan. 2020 84-94*
- Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*
- Quantitative Assessment of Stochastic Property of Network-Induced Time Delay in Smart Substation Cyber Communications. *Zheng, A.*, +, *TSG May 2020 2407-2416*

**Power system reliability**

- A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*
- A Hierarchical Control Framework With a Novel Bidding Scheme for Residential Community Energy Optimization. *Paudyal, P.*, +, *TSG Jan. 2020 710-719*
- A Novel Graph-Based Energy Management System. *Dai, R.*, +, *TSG May 2020 1845-1853*
- Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning. *Hajebrahimi, A.*, +, *TSG Sept. 2020 4278-4289*
- Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*
- Impact of Cascading and Common-Cause Outages on Resilience-Constrained Optimal Economic Operation of Power Systems. *Wang, Y.*, +, *TSG Jan. 2020 590-601*
- Methodology for Reliability Assessment of Smart Grid Considering Risk of Failure of Communication Architecture. *Zhu, W.*, +, *TSG Sept. 2020 4358-4365*
- Modulated Low Fault-Energy Protection Scheme for DC Smart Grids. *Li, C.*, +, *TSG Jan. 2020 84-94*
- Nodal Reliability Evaluation of Interdependent Gas and Power Systems Considering Cascading Effects. *Bao, M.*, +, *TSG Sept. 2020 4090-4104*
- Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*
- PMU-Based Distributed Non-Iterative Algorithm for Real-Time Voltage Stability Monitoring. *Guddanti, K.P.*, +, *TSG Nov. 2020 5203-5215*
- Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. *He, R.*, +, *TSG Sept. 2020 3763-3773*
- Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method. *Xu, Y.*, +, *TSG March 2020 1593-1603*
- Scalable and Robust State Estimation From Abundant But Untrusted Data. *Jin, M.*, +, *TSG May 2020 1880-1894*

**Power system restoration**

- A Full Decentralized Multi-Agent Service Restoration for Distribution Network With DGs. *Li, W.*, +, *TSG March 2020 1100-1111*
- Distributed Risk-Limiting Load Restoration in Unbalanced Distribution Systems With Networked Microgrids. *Shen, F.*, +, *TSG Nov. 2020 4574-4586*
- Enhancing Distribution System Resilience With Proactive Islanding and RCS-Based Fast Fault Isolation and Service Restoration. *Liu, J.*, +, *TSG May 2020 2381-2395*
- Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhavatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*
- Radiality Constraints for Resilient Reconfiguration of Distribution Systems: Formulation and Application to Microgrid Formation. *Lei, S.*, +, *TSG Sept. 2020 3944-3956*
- Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S.*, +, *TSG March 2020 1030-1043*
- Sequential Disaster Recovery Model for Distribution Systems With Co-Optimization of Maintenance and Restoration Crew Dispatch. *Zhang, G.*, +, *TSG Nov. 2020 4700-4713*

**Power system security**

- A Cyber-Attack Resilient Distributed Control Strategy in Islanded Microgrids. *Zhou, Q.*, +, *TSG Sept. 2020 3690-3701*
- A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*
- A Sponsor Incentive Attack Scheme for Feeder Automation Systems. *Dai, Q.*, +, *TSG March 2020 1440-1452*
- A Survey on the Detection Algorithms for False Data Injection Attacks in Smart Grids. *Musleh, A.S.*, +, *TSG May 2020 2218-2234*
- Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning. *Hajebrahimi, A.*, +, *TSG Sept. 2020 4278-4289*
- Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020 1171-1182*
- An Integrated Scheme for Online Dynamic Security Assessment Based on Partial Mutual Information and Iterated Random Forest. *Liu, S.*, +, *TSG July 2020 3606-3619*
- An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*
- CASeS: Concurrent Contingency Analysis-Based Security Metric Deployment for the Smart Grid. *Akaber, P.*, +, *TSG May 2020 2676-2687*
- CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency. *Venkataramanan, V.*, +, *TSG March 2020 1055-1065*
- Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. *Lin, C.*, +, *TSG May 2020 2531-2540*
- Detection and Mitigation of Cyber Attacks on Voltage Stability Monitoring of Smart Grids. *Ghafouri, M.*, +, *TSG Nov. 2020 5227-5238*
- Detection and Mitigation of Data Manipulation Attacks in AC Microgrids. *Mustafa, A.*, +, *TSG May 2020 2588-2603*
- Detection of Hidden Transformer Tap Change Command Attacks in Transmission Networks. *Chakrabarty, S.*, +, *TSG Nov. 2020 5161-5173*
- Differential Privacy for Power Grid Obfuscation. *Fioretto, F.*, +, *TSG March 2020 1356-1366*
- Dummy Data Attacks in Power Systems. *Liu, X.*, +, *TSG March 2020 1792-1795*
- Erratum to "Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems" [Jul 20 3558-3569]. *Nan, L.*, +, *TSG Sept. 2020 4569*
- Guest Editorial Theory and Application of PMUs in Power Distribution Systems. *Mohsenian-Rad, H.*, +, *TSG Jan. 2020 723-725*
- Multi-View Convolutional Neural Network for Data Spoofing Cyber-Attack Detection in Distribution Synchronphasors. *Qiu, W.*, +, *TSG July 2020 3457-3468*
- On the Fairness of PV Curtailment Schemes in Residential Distribution Networks. *Liu, M.Z.*, +, *TSG Sept. 2020 4502-4512*
- On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. *Saad, A.*, +, *TSG Nov. 2020 5138-5150*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. *Liu, B.*, +, *TSG Sept. 2020 4345-4357*
- PMU-Based Distributed Non-Iterative Algorithm for Real-Time Voltage Stability Monitoring. *Guddanti, K.P.*, +, *TSG Nov. 2020 5203-5215*
- Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5216-5226*
- Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S.*, +, *TSG Sept. 2020 3860-3870*
- Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling. *Perroy, E.*, +, *TSG Jan. 2020 26-36*
- Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. *He, R.*, +, *TSG Sept. 2020 3763-3773*
- Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method. *Xu, Y.*, +, *TSG March 2020 1593-1603*
- Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. *Badakhshan, S.*, +, *TSG Jan. 2020 118-128*



Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*

Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. *Safdarian, F.*, +, *TSG Sept. 2020 4544-4554*

Vulnerability Identification and Evaluation of Interdependent Natural Gas-Electricity Systems. *Nan, L.*, +, *TSG July 2020 3558-3569*

Wide-Area Robust Sliding Mode Controller for Power Systems With False Data Injection Attacks. *Li, M.*, +, *TSG March 2020 922-930*

#### Power system simulation

Adaptive Power System Emergency Control Using Deep Reinforcement Learning. *Huang, Q.*, +, *TSG March 2020 1171-1182*

Affine Arithmetic-Based Coordinated Interval Power Flow of Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TSG Sept. 2020 4116-4132*

An Integrated Scheme for Online Dynamic Security Assessment Based on Partial Mutual Information and Iterated Random Forest. *Liu, S.*, +, *TSG July 2020 3606-3619*

Distributed Solution of Stochastic Volt/VAR Control in Radial Networks. *Nazir, F.U.*, +, *TSG Nov. 2020 5314-5324*

Full Parallel Power Flow Solution: A GPU-CPU-Based Vectorization Parallelization and Sparse Techniques for Newton-Raphson Implementation. *Su, X.*, +, *TSG May 2020 1833-1844*

Nodal Reliability Evaluation of Interdependent Gas and Power Systems Considering Cascading Effects. *Bao, M.*, +, *TSG Sept. 2020 4090-4104*

Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*

Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

Two-Stage WECC Composite Load Modeling: A Double Deep Q-Learning Networks Approach. *Wang, X.*, +, *TSG Sept. 2020 4331-4344*

Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*

#### Power system stability

$H_{\infty}$ -Control of Grid-Connected Converters: Design, Objectives and Decentralized Stability Certificates. *Huang, L.*, +, *TSG Sept. 2020 3805-3816*

A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. *He, L.*, +, *TSG March 2020 1737-1747*

A Fast Load Control System Based on Mobile Distribution-Level Phasor Measurement Unit. *Yao, W.*, +, *TSG Jan. 2020 895-904*

A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*

A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. *Zhou, J.*, +, *TSG Sept. 2020 3716-3725*

A Zeno-Free Event-Triggered Secondary Control for AC Microgrids. *Abdolemaleki, B.*, +, *TSG May 2020 1905-1916*

Data-Driven Control of LVDC Network Converters: Active Load Stabilization. *Ruiz-Martinez, O.F.*, +, *TSG May 2020 2182-2194*

Data-Driven Event Detection of Power Systems Based on Unequal-Interval Reduction of PMU Data and Local Outlier Factor. *Liu, S.*, +, *TSG March 2020 1630-1643*

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

Deep Reinforcement Learning-Based Approach for Proportional Resonance Power System Stabilizer to Prevent Ultra-Low-Frequency Oscillations. *Zhang, G.*, +, *TSG Nov. 2020 5260-5272*

Detection and Mitigation of Cyber Attacks on Voltage Stability Monitoring of Smart Grids. *Ghaffouri, M.*, +, *TSG Nov. 2020 5227-5238*

Distributed Cluster Cooperation for Multiple DC MGs Over Two-Layer Switching Topologies. *Lu, X.*, +, *TSG Nov. 2020 4676-4687*

Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020 37-47*

Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees. *Mohiuddin, S.M.*, +, *TSG May 2020 1956-1967*

Eigenvalue-Oriented Dynamic Stability Examination to Enhance Designing a Microgrid Hosting Clusters of Inertial and Non-Inertial Distributed Generators. *Kunwar, A.*, +, *TSG May 2020 1942-1955*

Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020 391-402*

Frequency Event Categorization in Power Distribution Systems Using Micro PMU Measurements. *Duan, N.*, +, *TSG July 2020 3043-3053*

Global Sensitivity Analysis in Load Modeling via Low-Rank Tensor. *Lin, Y.*, +, *TSG May 2020 2737-2740*

Grid Influenced Peer-to-Peer Energy Trading. *Tushar, W.*, +, *TSG March 2020 1407-1418*

Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control. *Huang, L.*, +, *TSG Jan. 2020 501-516*

Interpolated DFT-Based Identification of Sub-Synchronous Oscillation Parameters Using Synchrophasor Data. *Yang, X.*, +, *TSG May 2020 2662-2675*

Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. *Chang, F.*, +, *TSG Nov. 2020 5273-5287*

Line Impedance Cooperative Stability Region Identification Method for Grid-Tied Inverters Under Weak Grids. *Rui, W.*, +, *TSG July 2020 2856-2866*

Low-Frequency Stability Analysis of Inverter-Based Islanded Multiple-Bus AC Microgrids Based on Terminal Characteristics. *Cao, W.*, +, *TSG Sept. 2020 3662-3676*

Malicious Corruption Resilience in PMU Data and Wide-Area Damping Control. *Mahapatra, K.*, +, *TSG March 2020 958-967*

Measurement-Based Voltage Stability Assessment Considering Generator VAR Limits. *Liu, C.*, +, *TSG Jan. 2020 301-311*

Modeling and Stability Analysis of Inverter-Based Microgrid Under Harmonic Conditions. *Peng, Y.*, +, *TSG March 2020 1330-1342*

Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements. *Ramapuram Matavalam, A.R.*, +, *TSG Jan. 2020 873-883*

Online PMU-Based Wide-Area Damping Control for Multiple Inter-Area Modes. *Zenelis, I.*, +, *TSG Nov. 2020 5451-5461*

Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. *Raman, G.*, +, *TSG July 2020 2805-2815*

Optimized Autonomous Operation Control to Maintain the Frequency, Voltage and Accurate Power Sharing for DGs in Islanded Systems. *Sun, L.*, +, *TSG Sept. 2020 3885-3895*

PMU-Based Distributed Non-Iterative Algorithm for Real-Time Voltage Stability Monitoring. *Guddanti, K.P.*, +, *TSG Nov. 2020 5203-5215*

Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling. *Perroy, E.*, +, *TSG Jan. 2020 26-36*

Signal-Anticipation in Local Voltage Control in Distribution Systems. *Liu, Z.*, +, *TSG Jan. 2020 233-246*

Small-Signal Stability Analysis and Active Damping Control of DC Microgrids Integrated With Distributed Electric Springs. *Hosseinipour, A.*, +, *TSG Sept. 2020 3737-3747*

Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. *Wu, Y.*, +, *TSG March 2020 1007-1017*

Stochastic Distributed Secondary Control for AC Microgrids via Event-Triggered Communication. *Lai, J.*, +, *TSG July 2020 2746-2759*

Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*

Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*

Wide-Area Robust Sliding Mode Controller for Power Systems With False Data Injection Attacks. *Li, M.*, +, *TSG March 2020 922-930*

**Power system state estimation**

- A High-Accuracy Phasor Estimation Algorithm for PMU Calibration and Its Hardware Implementation. *Xu, S.*, +, *TSG July 2020 3372-3383*
- A Novel Graph-Based Energy Management System. *Dai, R.*, +, *TSG May 2020 1845-1853*
- A Robust Statistical Approach to Distributed Power System State Estimation With Bad Data. *Ho, C.H.*, +, *TSG Jan. 2020 517-527*
- Agent-Based Distributed Computing for Power System State Estimation. *Saxena, K.*, +, *TSG Nov. 2020 5193-5202*
- Attack Identification and Correction for PMU GPS Spoofing in Unbalanced Distribution Systems. *Zhang, Y.*, +, *TSG Jan. 2020 762-773*
- Bayesian Learning-Based Harmonic State Estimation in Distribution Systems With Smart Meter and DPMU Data. *Zhou, W.*, +, *TSG Jan. 2020 832-845*
- Decentralized Robust State Estimation of Active Distribution Grids Incorporating Microgrids Based on PMU Measurements. *Lin, C.*, +, *TSG Jan. 2020 810-820*
- Deterministic Dynamic State Estimation-Based Optimal LFC for Interconnected Power Systems Using Unknown Input Observer. *Haes Alhelou, H.*, +, *TSG March 2020 1582-1592*
- Dynamic Distribution State Estimation Using Synchrophasor Data. *Song, J.*, +, *TSG Jan. 2020 821-831*
- Full-Scale Distribution System Topology Identification Using Markov Random Field. *Zhao, J.*, +, *TSG Nov. 2020 4714-4726*
- Gradient-Based Multi-Area Distribution System State Estimation. *Zhou, X.*, +, *TSG Nov. 2020 5325-5338*
- Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*
- Graph-Based Faulted Line Identification Using Micro-PMU Data in Distribution Systems. *Zhang, Y.*, +, *TSG Sept. 2020 3982-3992*
- Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security. *Roberts, C.*, +, *TSG Jan. 2020 749-761*
- Matrix Completion for Low-Observability Voltage Estimation. *Donti, P.L.*, +, *TSG May 2020 2520-2530*
- Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. *Liu, B.*, +, *TSG Sept. 2020 4345-4357*
- Scalable and Robust State Estimation From Abundant But Untrusted Data. *Jin, M.*, +, *TSG May 2020 1880-1894*
- Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*

**Power system transient stability**

- An Integrated Scheme for Online Dynamic Security Assessment Based on Partial Mutual Information and Iterated Random Forest. *Liu, S.*, +, *TSG July 2020 3606-3619*
- Multiple Communication Topologies for PMU-Based Applications: Introduction, Analysis and Simulation. *Ye, F.*, +, *TSG Nov. 2020 5051-5061*
- New Analysis Framework for Transient Stability Evaluation of DC Microgrids. *Xia, Y.*, +, *TSG July 2020 2794-2804*
- Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*
- Two-Stage WECC Composite Load Modeling: A Double Deep Q-Learning Networks Approach. *Wang, X.*, +, *TSG Sept. 2020 4331-4344*

**Power system transients**

- Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning. *Xiong, S.*, +, *TSG Nov. 2020 5239-5248*
- Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhvatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*
- Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. *Badakhshan, S.*, +, *TSG Jan. 2020 118-128*
- Transient High-Frequency Impedance Comparison-Based Protection for Flexible DC Distribution Systems. *Jia, K.*, +, *TSG Jan. 2020 323-333*

**Power systems**

- Data-Based Resilience Enhancement Strategies for Electric-Gas Systems Against Sequential Extreme Weather Events. *Liu, R.*, +, *TSG Nov. 2020 5383-5395*

**Power transformer protection**

- Automated Identification of Electrical Disturbance Waveforms Within an Operational Smart Power Grid. *Wilson, A.J.*, +, *TSG Sept. 2020 4380-4389*

**Power transformers**

- A Data-Driven Pivot-Point-Based Time-Series Feeder Load Disaggregation Method. *Wang, J.*, +, *TSG Nov. 2020 5396-5406*
- A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*
- Building Large-Scale U.S. Synthetic Electric Distribution System Models. *Mateo, C.*, +, *TSG Nov. 2020 5301-5313*
- Data-Driven Distribution System Load Modeling for Quasi-Static Time-Series Simulation. *Zhu, X.*, +, *TSG March 2020 1556-1565*

**Power transmission**

- Detection and Mitigation of Cyber Attacks on Voltage Stability Monitoring of Smart Grids. *Ghafari, M.*, +, *TSG Nov. 2020 5227-5238*
- Frequency Event Categorization in Power Distribution Systems Using Micro PMU Measurements. *Duan, N.*, +, *TSG July 2020 3043-3053*

**Power transmission control**

- Cloud-Edge Cooperative Model and Closed-Loop Control Strategy for the Price Response of Large-Scale Air Conditioners Considering Data Packet Dropouts. *Jiang, A.*, +, *TSG Sept. 2020 4201-4211*
- CP-TRAM: Cyber-Physical Transmission Resiliency Assessment Metric. *Tushar, .*, +, *TSG Nov. 2020 5114-5123*
- Detection of Hidden Transformer Tap Change Command Attacks in Transmission Networks. *Chakrabarty, S.*, +, *TSG Nov. 2020 5161-5173*
- Multiple Communication Topologies for PMU-Based Applications: Introduction, Analysis and Simulation. *Ye, F.*, +, *TSG Nov. 2020 5051-5061*
- Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling. *Perroy, E.*, +, *TSG Jan. 2020 26-36*
- Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*

**Power transmission economics**

- A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*
- Cloud-Edge Cooperative Model and Closed-Loop Control Strategy for the Price Response of Large-Scale Air Conditioners Considering Data Packet Dropouts. *Jiang, A.*, +, *TSG Sept. 2020 4201-4211*
- Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*
- Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. *Lin, C.*, +, *TSG May 2020 2531-2540*
- Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling. *Perroy, E.*, +, *TSG Jan. 2020 26-36*
- Spatial-Temporal Reliability and Damage Assessment of Transmission Networks Under Hurricanes. *Zhang, H.*, +, *TSG March 2020 1044-1054*
- Tracing Power With Circuit Theory. *Chen, Y.C.*, +, *TSG Jan. 2020 138-147*
- Two-Stage Convexification-Based Optimal Electricity-Gas Flow. *Yang, L.*, +, *TSG March 2020 1465-1475*

**Power transmission faults**

- A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M.*, +, *TSG May 2020 2115-2124*
- Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*

**Power transmission lines**

- A Learning-to-Infer Method for Real-Time Power Grid Multi-Line Outage Identification. *Zhao, Y.*, +, *TSG Jan. 2020 555-564*
- A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*
- A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M.*, +, *TSG May 2020 2115-2124*
- Correction of Phasor Measurements Independent of Transmission Line Parameters. *Xue, A.*, +, *TSG Jan. 2020 346-356*

- Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F.*, +, *TSG May 2020 2476-2486*
- Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*
- Power transmission planning**
- A Parallel Solution for the Resilient Operation of Power Systems in Geomagnetic Storms. *Gong, L.*, +, *TSG July 2020 3483-3495*
- A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters. *Liu, X.*, +, *TSG Nov. 2020 5431-5441*
- Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning. *Hajebrahimi, A.*, +, *TSG Sept. 2020 4278-4289*
- Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*
- Spatial–Temporal Reliability and Damage Assessment of Transmission Networks Under Hurricanes. *Zhang, H.*, +, *TSG March 2020 1044-1054*
- Power transmission protection**
- Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*
- Power transmission reliability**
- A Learning-to-Infer Method for Real-Time Power Grid Multi-Line Outage Identification. *Zhao, Y.*, +, *TSG Jan. 2020 555-564*
- A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters. *Liu, X.*, +, *TSG Nov. 2020 5431-5441*
- Data-Driven Transmission Defense Planning Against Extreme Weather Events. *Yan, J.*, +, *TSG May 2020 2257-2270*
- Provision of Frequency Containment Reserve Through Large Industrial End-Users Pooling. *Perroy, E.*, +, *TSG Jan. 2020 26-36*
- Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. *He, R.*, +, *TSG Sept. 2020 3763-3773*
- Spatial–Temporal Reliability and Damage Assessment of Transmission Networks Under Hurricanes. *Zhang, H.*, +, *TSG March 2020 1044-1054*
- Predictive control**
- Aggregate Power Flexibility in Unbalanced Distribution Systems. *Chen, X.*, +, *TSG Jan. 2020 258-269*
- Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles. *Wang, B.*, +, *TSG May 2020 2324-2336*
- Convex Relaxation of Grid-Connected Energy Storage System Models With Complementarity Constraints in DC OPF. *Garifi, K.*, +, *TSG Sept. 2020 4070-4079*
- Definition and Evaluation of Model-Free Coordination of Electrical Vehicle Charging With Reinforcement Learning. *Sadeghianpourhamami, N.*, +, *TSG Jan. 2020 203-214*
- Desynchronized Model Predictive Control for Large Populations of Fans in Server Racks of Datacenters. *Laparra, G.*, +, *TSG Jan. 2020 411-419*
- Distributed Predictive Control for Frequency and Voltage Regulation in Microgrids. *Gomez, J.S.*, +, *TSG March 2020 1319-1329*
- Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control. *Velasquez, M.A.*, +, *TSG May 2020 1968-1979*
- Linearized Price-Responsive HVAC Controller for Optimal Scheduling of Smart Building Loads. *Ostadijafari, M.*, +, *TSG July 2020 3131-3145*
- Modelling and Control of Ensembles of Variable-Speed Air Conditioning Loads for Demand Response. *Mahdavi, N.*, +, *TSG Sept. 2020 4249-4260*
- Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*
- Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*
- Risk-Averse Model Predictive Control Design for Battery Energy Storage Systems. *Rosewater, D.*, +, *TSG May 2020 2014-2022*
- Pricing**
- A Bilevel Approach for Optimal Price-Setting of Time-and-Level-of-Use Tariffs. *Besancon, M.*, +, *TSG Nov. 2020 5462-5465*
- A Block-of-Use Electricity Retail Pricing Approach Based on the Customer Load Profile. *Ma, Z.*, +, *TSG March 2020 1500-1509*
- A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs. *Yang, J.*, +, *TSG March 2020 1724-1736*
- A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*
- A Learning-Based Power Management Method for Networked Microgrids Under Incomplete Information. *Zhang, Q.*, +, *TSG March 2020 1193-1204*
- A Multi-Agent Reinforcement Learning-Based Data-Driven Method for Home Energy Management. *Xu, X.*, +, *TSG July 2020 3201-3211*
- A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. *Yang, J.*, +, *TSG Sept. 2020 4056-4069*
- A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidizadeh-Kermani, H.*, +, *TSG July 2020 3171-3184*
- A Supervised-Learning-Based Strategy for Optimal Demand Response of an HVAC System in a Multi-Zone Office Building. *Kim, Y.*, *TSG Sept. 2020 4212-4226*
- Affinely Adjustable Robust ADMM for Residential DER Coordination in Distribution Networks. *Atarha, A.*, +, *TSG March 2020 1620-1629*
- An Energy Sharing Game With Generalized Demand Bidding: Model and Properties. *Chen, Y.*, +, *TSG May 2020 2055-2066*
- An Online Admission Control Mechanism for Electric Vehicles at Public Parking Infrastructures. *Tucker, N.*, +, *TSG Jan. 2020 161-170*
- Cloud-Edge Cooperative Model and Closed-Loop Control Strategy for the Price Response of Large-Scale Air Conditioners Considering Data Packet Dropouts. *Jiang, A.*, +, *TSG Sept. 2020 4201-4211*
- Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning. *Li, H.*, +, *TSG May 2020 2427-2439*
- Constrained Thompson Sampling for Real-Time Electricity Pricing With Grid Reliability Constraints. *Tucker, N.*, +, *TSG Nov. 2020 4971-4983*
- Coordinated Market Design for Peer-to-Peer Energy Trade and Ancillary Services in Distribution Grids. *Zhang, K.*, +, *TSG July 2020 2929-2941*
- Coordination of Electric Vehicle Charging Through Multiagent Reinforcement Learning. *Silva, F.L.D.*, +, *TSG May 2020 2347-2356*
- Core-Selecting Mechanisms in Electricity Markets. *Karaca, O.*, +, *TSG May 2020 2604-2614*
- Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J.*, +, *TSG Sept. 2020 4513-4521*
- Demand Response Cooperative and Demand Charge. *Elkasrawy, A.*, +, *TSG Sept. 2020 4167-4175*
- Deployment of the Electric Vehicle Charging Station Considering Existing Competitors. *Zhao, Y.*, +, *TSG Sept. 2020 4236-4248*
- Grid Influenced Peer-to-Peer Energy Trading. *Tushar, W.*, +, *TSG March 2020 1407-1418*
- Integrating P2P Energy Trading With Probabilistic Distribution Locational Marginal Pricing. *Morstyn, T.*, +, *TSG July 2020 3095-3106*
- Intelligent Multi-Microgrid Energy Management Based on Deep Neural Network and Model-Free Reinforcement Learning. *Du, Y.*, +, *TSG March 2020 1066-1076*
- Locational Marginal Price Forecasting: A Componential and Ensemble Approach. *Zheng, K.*, +, *TSG Sept. 2020 4555-4564*
- Low-Carbon Operation of Multiple Energy Systems Based on Energy-Carbon Integrated Prices. *Cheng, Y.*, +, *TSG March 2020 1307-1318*
- Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W.*, +, *TSG Sept. 2020 4105-4115*
- Online Control and Near-Optimal Algorithm for Distributed Energy Storage Sharing in Smart Grid. *Zhong, W.*, +, *TSG May 2020 2552-2562*
- Online Learning for Network Constrained Demand Response Pricing in Distribution Systems. *Mieth, R.*, +, *TSG May 2020 2563-2575*
- Optimal Home Energy Management System With Demand Charge Tariff and Appliance Operational Dependencies. *Luo, F.*, +, *TSG Jan. 2020 4-14*
- Optimal Participation of Residential Aggregators in Energy and Local Flexibility Markets. *Correa-Florez, C.A.*, +, *TSG March 2020 1644-1656*
- Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N.*, +, *TSG March 2020 1771-1780*

- Power System Parameter Attack for Financial Profits in Electricity Markets. *Xu, H.*, +, *TSG July 2020 3438-3446*
- Pricing and Routing Mechanisms for Differentiated Services in an Electric Vehicle Public Charging Station Network. *Moradipari, A.*, +, *TSG March 2020 1489-1499*
- Provision of Differentiated Reliability Services Under a Market-Based Investment Decision Making. *Junlakarn, S.*, +, *TSG Sept. 2020 3970-3981*
- Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid. *Kong, P.*, *TSG May 2020 2417-2426*
- Real-Time Residential Demand Response. *Li, H.*, +, *TSG Sept. 2020 4144-4154*
- Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. *Wang, Y.*, +, *TSG March 2020 1286-1295*
- Smart Meter Data-Driven Customizing Price Design for Retailers. *Feng, C.*, +, *TSG May 2020 2043-2054*
- Toward a Retail Market for Distribution Grids. *Haider, R.*, +, *TSG Nov. 2020 4891-4905*
- Transactive Energy Based Aggregation of Prosumers as a Retailer. *Xiao, Y.*, +, *TSG July 2020 3302-3312*
- Virtual Energy Storage Sharing and Capacity Allocation. *Zhao, D.*, +, *TSG March 2020 1112-1123*
- VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. *Yazdaninejad, M.*, +, *TSG July 2020 3632-3645*
- Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. *Sun, J.*, +, *TSG July 2020 3083-3094*

#### Principal component analysis

- Data-Driven Event Detection of Power Systems Based on Unequal-Interval Reduction of PMU Data and Local Outlier Factor. *Liu, S.*, +, *TSG March 2020 1630-1643*
- Malicious Corruption Resilience in PMU Data and Wide-Area Damping Control. *Mahapatra, K.*, +, *TSG March 2020 958-967*
- Robust Recovery of PMU Signals With Outlier Characterization and Stochastic Subspace Selection. *Chatterjee, K.*, +, *TSG July 2020 3346-3358*

#### Probability

- A Hybrid Stochastic-Interval Operation Strategy for Multi-Energy Microgrids. *Jiang, Y.*, +, *TSG Jan. 2020 440-456*
- A Novel Approach for Seamless Probabilistic Photovoltaic Power Forecasting Covering Multiple Time Frames. *Carriere, T.*, +, *TSG May 2020 2281-2292*
- A Novel Fitted Rolling Horizon Control Approach for Real-Time Policy Making in Microgrid. *Das, A.*, +, *TSG July 2020 3535-3544*
- A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters. *Liu, X.*, +, *TSG Nov. 2020 5431-5441*
- A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidzadeh-Kermani, H.*, +, *TSG July 2020 3171-3184*
- An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems. *Liu, W.*, +, *TSG Jan. 2020 541-554*
- Chance-Constrained Optimization of Energy Storage Capacity for Microgrids. *Yahya Soltani, N.*, +, *TSG July 2020 2760-2770*
- Combining Probability Density Forecasts for Power Electrical Loads. *Li, T.*, +, *TSG March 2020 1679-1690*
- Data-Driven Load Modeling and Forecasting of Residential Appliances. *Ji, Y.*, +, *TSG May 2020 2652-2661*
- Deep-Based Conditional Probability Density Function Forecasting of Residential Loads. *Afrasiabi, M.*, +, *TSG July 2020 3646-3657*
- Enhance High Impedance Fault Detection and Location Accuracy via  $\mu$ -PMUs. *Cui, Q.*, +, *TSG Jan. 2020 797-809*
- Graphical Models in Meshed Distribution Grids: Topology Estimation, Change Detection & Limitations. *Deka, D.*, +, *TSG Sept. 2020 4299-4310*
- Improving Probabilistic Load Forecasting Using Quantile Regression NN With Skip Connections. *Zhang, W.*, +, *TSG Nov. 2020 5442-5450*

- Incipient Fault Identification in Power Distribution Systems via Human-Level Concept Learning. *Xiong, S.*, +, *TSG Nov. 2020 5239-5248*
- Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. *Salimi, M.*, +, *TSG Sept. 2020 4390-4402*
- Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties. *Wang, S.*, +, *TSG May 2020 2709-2721*
- Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. *Wang, C.*, +, *TSG May 2020 2498-2510*
- Minimizing Wind Power Curtailment Using a Continuous-Time Risk-Based Model of Generating Units and Bulk Energy Storage. *Nikoobakht, A.*, +, *TSG Nov. 2020 4833-4846*
- Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. *Zhang, G.*, +, *TSG Nov. 2020 4847-4859*
- Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S.*, +, *TSG Sept. 2020 3860-3870*
- Reinforced Deterministic and Probabilistic Load Forecasting via  $Q$ -Learning Dynamic Model Selection. *Feng, C.*, +, *TSG March 2020 1377-1386*
- Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*
- Spatial-Temporal Reliability and Damage Assessment of Transmission Networks Under Hurricanes. *Zhang, H.*, +, *TSG March 2020 1044-1054*
- State Space Model of Aggregated Electric Vehicles for Frequency Regulation. *Wang, M.*, +, *TSG March 2020 981-994*
- Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*
- Stealth Attacks on the Smart Grid. *Sun, K.*, +, *TSG March 2020 1276-1285*

#### Profitability

- A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidzadeh-Kermani, H.*, +, *TSG July 2020 3171-3184*
- An Efficient Robust Approach to the Day-Ahead Operation of an Aggregator of Electric Vehicles. *Porrás, A.*, +, *TSG Nov. 2020 4960-4970*
- Deep Reinforcement Learning for Strategic Bidding in Electricity Markets. *Ye, Y.*, +, *TSG March 2020 1343-1355*
- Deployment of the Electric Vehicle Charging Station Considering Existing Competitors. *Zhao, Y.*, +, *TSG Sept. 2020 4236-4248*
- Locational Marginal Price Forecasting: A Componential and Ensemble Approach. *Zheng, K.*, +, *TSG Sept. 2020 4555-4564*
- Optimal Bidding and Operation Strategies for EV Aggregators by Regrouping Aggregated EV Batteries. *Han, S.*, +, *TSG Nov. 2020 4928-4937*
- Optimal Combination of Frequency Control and Peak Shaving With Battery Storage Systems. *Engels, J.*, +, *TSG July 2020 3270-3279*
- Optimum Operation of Battery Storage System in Frequency Containment Reserves Markets. *Hasanpor Divshali, P.*, +, *TSG Nov. 2020 4906-4915*
- Power System Parameter Attack for Financial Profits in Electricity Markets. *Xu, H.*, +, *TSG July 2020 3438-3446*
- Pricing and Routing Mechanisms for Differentiated Services in an Electric Vehicle Public Charging Station Network. *Moradipari, A.*, +, *TSG March 2020 1489-1499*
- Smart Meter Data-Driven Customizing Price Design for Retailers. *Feng, C.*, +, *TSG May 2020 2043-2054*
- Virtual Energy Storage Sharing and Capacity Allocation. *Zhao, D.*, +, *TSG March 2020 1112-1123*

#### Protocols

- Detection and Mitigation of Data Manipulation Attacks in AC Microgrids. *Mustafa, A.*, +, *TSG May 2020 2588-2603*
- Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation. *Li, J.*, +, *TSG Nov. 2020 4760-4772*
- Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*
- The White Rabbit Time Synchronization Protocol for Synchrophasor Networks. *Derviskadic, A.*, +, *TSG Jan. 2020 726-738*

**Purchasing**

Agent-Based Privacy Preserving Transactive Control for Managing Peak Power Consumption. *Ge, Y., +, TSG Nov. 2020 4883-4890*

**Q****Quadratic programming**

A Data-Driven Approach to Linearize Power Flow Equations Considering Measurement Noise. *Liu, Y., +, TSG May 2020 2576-2587*

Combining Probability Density Forecasts for Power Electrical Loads. *Li, T., +, TSG March 2020 1679-1690*

Coordinated Planning of Transportation and Electric Power Networks With the Proliferation of Electric Vehicles. *Gan, W., +, TSG Sept. 2020 4005-4016*

Decentralized Robust State Estimation of Active Distribution Grids Incorporating Microgrids Based on PMU Measurements. *Lin, C., +, TSG Jan. 2020 810-820*

Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation. *Li, J., +, TSG Nov. 2020 4760-4772*

Hydraulic-Thermal Cooperative Optimization of Integrated Energy Systems: A Convex Optimization Approach. *Lu, S., +, TSG Nov. 2020 4818-4832*

Optimal Voltage Reference for Droop-Based DERs in Distribution Systems. *Hong, T., +, TSG May 2020 2357-2366*

Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs. *Hu, X., +, TSG Sept. 2020 4017-4031*

**Quality of service**

Pricing and Routing Mechanisms for Differentiated Services in an Electric Vehicle Public Charging Station Network. *Moradipari, A., +, TSG March 2020 1489-1499*

UPS: Unified PMU-Data Storage System to Enhance T+D PMU Data Usability. *Kosen, I., +, TSG Jan. 2020 739-748*

**Query processing**

Enabling Efficient and Privacy-Preserving Aggregation Communication and Function Query for Fog Computing-Based Smart Grid. *Liu, J., +, TSG Jan. 2020 247-257*

**Queueing theory**

Quantitative Assessment of Stochastic Property of Network-Induced Time Delay in Smart Substation Cyber Communications. *Zheng, A., +, TSG May 2020 2407-2416*

**R****Random forests**

Aggregation of Multi-Scale Experts for Bottom-Up Load Forecasting. *Goehry, B., +, TSG May 2020 1895-1904*

An Integrated Scheme for Online Dynamic Security Assessment Based on Partial Mutual Information and Iterated Random Forest. *Liu, S., +, TSG July 2020 3606-3619*

Wavelet-Based Decompositions in Probabilistic Load Forecasting. *Alfieri, L., +, TSG March 2020 1367-1376*

**Random processes**

Spatio-Temporal Correlation Analysis of Online Monitoring Data for Anomaly Detection and Location in Distribution Networks. *Shi, X., +, TSG March 2020 995-1006*

**Reactive power**

A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y., +, TSG March 2020 1018-1029*

A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S., +, TSG May 2020 2140-2150*

Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R., +, TSG Jan. 2020 483-500*

Characterizing the Reserve Provision Capability Area of Active Distribution Networks: A Linear Robust Optimization Method. *Kalantar-Neyestanaki, M., +, TSG May 2020 2464-2475*

Closure to "Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems". *Alkaabi, S.S., +, TSG March 2020 1813-1815*

Discussion on "Short-Term Reactive Power Planning to Minimize Cost of Energy Losses Considering PV Systems". *Khalid, M., TSG March 2020 1812*

Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S., +, TSG July 2020 3469-3482*

Distribution Network Marginal Costs: Enhanced AC OPF Including Transformer Degradation. *Andrianesis, P., +, TSG Sept. 2020 3910-3920*

Evaluating Feasibility Within Power Flow. *Jereminov, M., +, TSG July 2020 3522-3534*

Hierarchical Distributed Voltage Optimization Method for HV and MV Distribution Networks. *Chai, Y., +, TSG March 2020 968-980*

Operation of Distribution Network Considering Compressed Air Energy Storage Unit and Its Reactive Power Support Capability. *Guo, Z., +, TSG July 2020 2954-2965*

PEV Fast-Charging Station Sizing and Placement in Coupled Transportation-Distribution Networks Considering Power Line Conditioning Capability. *Hashemian, S.N., +, TSG Nov. 2020 4773-4783*

Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S., +, TSG Sept. 2020 3860-3870*

Separating Feeder Demand Into Components Using Substation, Feeder, and Smart Meter Measurements. *Ledva, G.S., +, TSG July 2020 3280-3290*

Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X., +, TSG July 2020 2904-2917*

Tracing Power With Circuit Theory. *Chen, Y.C., +, TSG Jan. 2020 138-147*

Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs. *Hu, X., +, TSG Sept. 2020 4017-4031*

**Reactive power control**

A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. *Zhao, H., +, TSG May 2020 2303-2312*

A Novel Extended Impedance-Power Droop for Accurate Active and Reactive Power Sharing in a Multi-Bus Microgrid With Complex Impedances. *Razi, R., +, TSG Sept. 2020 3795-3804*

Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. *Jalali, M., +, TSG March 2020 1759-1770*

Development of New Identification Method for Global Group of Controls for Online Coordinated Voltage Control in Active Distribution Networks. *Alzaareer, K., +, TSG Sept. 2020 3921-3931*

Distributed Adaptive Robust Voltage/VAR Control With Network Partition in Active Distribution Networks. *Li, P., +, TSG May 2020 2245-2256*

Distributed Solution of Stochastic Volt/VAr Control in Radial Networks. *Nazir, F.U., +, TSG Nov. 2020 5314-5324*

Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees. *Mohiuddin, S.M., +, TSG May 2020 1956-1967*

Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control. *Huang, L., +, TSG Jan. 2020 501-516*

Hierarchically-Coordinated Voltage/VAR Control of Distribution Networks Using PV Inverters. *Zhang, C., +, TSG July 2020 2942-2953*

Model-Free Optimal Voltage Phasor Regulation in Unbalanced Distribution Systems. *Sankur, M.D., +, TSG Jan. 2020 884-894*

Multi-Objective Adaptive Robust Voltage/VAR Control for High-PV Penetrated Distribution Networks. *Zhang, C., +, TSG Nov. 2020 5288-5300*

Optimal Multiobjective Control of Low-Voltage AC Microgrids: Power Flow Regulation and Compensation of Reactive Power and Unbalance. *Brandao, D.I., +, TSG March 2020 1239-1252*

Optimized Autonomous Operation Control to Maintain the Frequency, Voltage and Accurate Power Sharing for DGs in Islanded Systems. *Sun, L., +, TSG Sept. 2020 3885-3895*

Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S., +, TSG Sept. 2020 3860-3870*

Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs. *Hu, X., +, TSG Sept. 2020 4017-4031*

**Real-time systems**

Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

**Recurrent neural networks**

A Hybrid Distribution Feeder Long-Term Load Forecasting Method Based on Sequence Prediction. *Dong, M.*, +, *TSG Jan. 2020 470-482*

A Real-Time Framework for Matching Prosumers With Minimum Risk in the Cluster of Microgrids. *Ryu, Y.*, +, *TSG July 2020 2832-2844*

A Robust Spatiotemporal Forecasting Framework for Photovoltaic Generation. *Chai, S.*, +, *TSG Nov. 2020 5370-5382*

Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models. *Kaselimi, M.*, +, *TSG July 2020 3054-3067*

Deep Learning Detection of Electricity Theft Cyber-Attacks in Renewable Distributed Generation. *Ismail, M.*, +, *TSG July 2020 3428-3437*

Deep Learning-Based Real-Time Building Occupancy Detection Using AMI Data. *Feng, C.*, +, *TSG Sept. 2020 4490-4501*

Deep-Based Conditional Probability Density Function Forecasting of Residential Loads. *Afrasiabi, M.*, +, *TSG July 2020 3646-3657*

Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F.*, +, *TSG May 2020 2722-2733*

**Recursive estimation**

Online Measurement-Based Estimation of Dynamic System State Matrix in Ambient Conditions. *Sheng, H.*, +, *TSG Jan. 2020 95-105*

**Reduced order systems**

Reduced-Order State Space Model for Dynamic Phasors in Active Distribution Networks. *Wang, H.*, +, *TSG May 2020 1928-1941*

Small-Signal Stability of a DC Network Planned for Electric Vehicle Charging. *Du, W.*, +, *TSG Sept. 2020 3748-3762*

**Refrigerators**

A Data-Driven Approach for Targeting Residential Customers for Energy Efficiency Programs. *Liang, H.*, +, *TSG March 2020 1229-1238*

**Regression analysis**

A Data-Driven Approach to Linearize Power Flow Equations Considering Measurement Noise. *Liu, Y.*, +, *TSG May 2020 2576-2587*

A Novel Fitted Rolling Horizon Control Approach for Real-Time Policy Making in Microgrid. *Das, A.*, +, *TSG July 2020 3535-3544*

An Integrated Scheme for Online Dynamic Security Assessment Based on Partial Mutual Information and Iterated Random Forest. *Liu, S.*, +, *TSG July 2020 3606-3619*

Automated Determination of Topology and Line Parameters in Low Voltage Systems Using Smart Meters Measurements. *Cunha, V.C.*, +, *TSG Nov. 2020 5028-5038*

Bayesian Learning-Based Harmonic State Estimation in Distribution Systems With Smart Meter and DPMU Data. *Zhou, W.*, +, *TSG Jan. 2020 832-845*

Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models. *Kaselimi, M.*, +, *TSG July 2020 3054-3067*

Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. *Razavi-Far, R.*, +, *TSG March 2020 1453-1464*

Establishment of Enhanced Load Modeling by Correlating With Occupancy Information. *Tang, Y.*, +, *TSG March 2020 1702-1713*

Improving Probabilistic Load Forecasting Using Quantile Regression NN With Skip Connections. *Zhang, W.*, +, *TSG Nov. 2020 5442-5450*

Multiple Kernel Learning-Based Transfer Regression for Electric Load Forecasting. *Wu, D.*, +, *TSG March 2020 1183-1192*

Online Measurement-Based Estimation of Dynamic System State Matrix in Ambient Conditions. *Sheng, H.*, +, *TSG Jan. 2020 95-105*

Topology Identification and Line Parameter Estimation for Non-PMU Distribution Network: A Numerical Method. *Zhang, J.*, +, *TSG Sept. 2020 4440-4453*

Wavelet-Based Decompositions in Probabilistic Load Forecasting. *Alfieri, L.*, +, *TSG March 2020 1367-1376*

**Relaxation theory**

Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. *Wang, Y.*, +, *TSG March 2020 1286-1295*

**Relay protection**

Evaluation of a Communication-Assisted Overcurrent Protection Scheme for Photovoltaic-Based DC Microgrid. *Shabani, A.*, +, *TSG Jan. 2020 429-439*

Microgrid Protection and Control Schemes for Seamless Transition to Island and Grid Synchronization. *Vukojevic, A.*, +, *TSG July 2020 2845-2855*

Online Application of Local OOS Protection and Graph Theory for Controlled Islanding. *Ayer, N.*, +, *TSG May 2020 1822-1832*

Towards Plug-and-Play Protection for Meshed Distribution Systems With DG. *Tsimtsios, A.M.*, +, *TSG May 2020 1980-1995*

**Relays**

Towards Plug-and-Play Protection for Meshed Distribution Systems With DG. *Tsimtsios, A.M.*, +, *TSG May 2020 1980-1995*

**Reliability**

Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. *He, R.*, +, *TSG Sept. 2020 3763-3773*

**Reliability theory**

A Unified Approach for Reliability Assessment of Critical Infrastructures Using Graph Theory and Entropy. *Iranpour, M.*, +, *TSG Nov. 2020 5184-5192*

**Renewable energy sources**

A Decentralized Distribution Market Mechanism Considering Renewable Generation Units With Zero Marginal Costs. *Yang, J.*, +, *TSG March 2020 1724-1736*

A Penalty Scheme for Mitigating Uninstructed Deviation of Generation Outputs From Variable Renewables in a Distribution Market. *Yang, J.*, +, *TSG Sept. 2020 4056-4069*

A Real Options Market-Based Approach to Increase Penetration of Renewables. *Aguilar, N.*, +, *TSG March 2020 1691-1701*

A Robust Augmented Nodal Analysis Approach to Distribution Network Solution. *Nduka, O.S.*, +, *TSG May 2020 2140-2150*

Aggregation of Multi-Scale Experts for Bottom-Up Load Forecasting. *Goehry, B.*, +, *TSG May 2020 1895-1904*

Chance-Constrained Energy Management System for Power Grids With High Proliferation of Renewables and Electric Vehicles. *Wang, B.*, +, *TSG May 2020 2324-2336*

Distributed Risk-Limiting Load Restoration in Unbalanced Distribution Systems With Networked Microgrids. *Shen, F.*, +, *TSG Nov. 2020 4574-4586*

Distribution-Level Robust Energy Management of Power Systems Considering Bidirectional Interactions With Gas Systems. *Sayed, A.R.*, +, *TSG May 2020 2092-2105*

Energy Peer-to-Peer Trading in Virtual Microgrids in Smart Grids: A Game-Theoretic Approach. *Anoh, K.*, +, *TSG March 2020 1264-1275*

Fast Frequency Response From Energy Storage Systems—A Review of Grid Standards, Projects and Technical Issues. *Meng, L.*, +, *TSG March 2020 1566-1581*

Graph Computing-Based WLS Fast Decoupled State Estimation. *Yuan, C.*, +, *TSG May 2020 2440-2451*

Hierarchical Coordination of Two-Time Scale Microgrids With Supply-Demand Imbalance. *Du, Y.*, +, *TSG Sept. 2020 3726-3736*

Intra-Hour Microgrid Economic Dispatch Based on Model Predictive Control. *Velasquez, M.A.*, +, *TSG May 2020 1968-1979*

Optimal Corrective Dispatch of Uncertain Virtual Energy Storage Systems. *Amini, M.*, +, *TSG Sept. 2020 4155-4166*

Quantitative Evaluations of Uncertainties in Multivariate Operations of Microgrids. *Wang, H.*, +, *TSG July 2020 2892-2903*

Risk-Based Uncertainty Set Optimization Method for Energy Management of Hybrid AC/DC Microgrids With Uncertain Renewable Generation. *Liang, Z.*, +, *TSG March 2020 1526-1542*

Stochastic Transactive Control for Electric Vehicle Aggregators Coordination: A Decentralized Approximate Dynamic Programming Approach. *Pan, Z.*, +, *TSG Sept. 2020 4261-4277*

Truthful, Practical and Privacy-Aware Demand Response in the Smart Grid via a Distributed and Optimal Mechanism. *Tsaousoglou, G.*, +, *TSG July 2020 3119-3130*

Virtual Inertia From Smart Loads. *Chen, T.*, +, *TSG Sept. 2020 4311-4320*

**Resource allocation**

- A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*
- Energy Management for Hybrid AC/DC Distribution System With Microgrid Clusters Using Non-Cooperative Game Theory and Robust Optimization. *Fu, Y.*, +, *TSG March 2020 1510-1525*
- Low-Latency Communications for Community Resilience Microgrids: A Reinforcement Learning Approach. *Elsayed, M.*, +, *TSG March 2020 1091-1099*
- Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W.*, +, *TSG Sept. 2020 4105-4115*
- Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid. *Kong, P.*, *TSG May 2020 2417-2426*
- Statistical Machine Learning Model for Stochastic Optimal Planning of Distribution Networks Considering a Dynamic Correlation and Dimension Reduction. *Fu, X.*, +, *TSG July 2020 2904-2917*

**Retailing**

- A Block-of-Use Electricity Retail Pricing Approach Based on the Customer Load Profile. *Ma, Z.*, +, *TSG March 2020 1500-1509*
- Deployment of the Electric Vehicle Charging Station Considering Existing Competitors. *Zhao, Y.*, +, *TSG Sept. 2020 4236-4248*
- Smart Meter Data-Driven Customizing Price Design for Retailers. *Feng, C.*, +, *TSG May 2020 2043-2054*
- Toward a Retail Market for Distribution Grids. *Haider, R.*, +, *TSG Nov. 2020 4891-4905*

**Risk analysis**

- Methodology for Reliability Assessment of Smart Grid Considering Risk of Failure of Communication Architecture. *Zhu, W.*, +, *TSG Sept. 2020 4358-4365*
- Risk Assessment of Rare Events in Probabilistic Power Flow via Hybrid Multi-Surrogate Method. *Xu, Y.*, +, *TSG March 2020 1593-1603*

**Risk management**

- A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*
- A Real-Time Framework for Matching Prosumers With Minimum Risk in the Cluster of Microgrids. *Ryu, Y.*, +, *TSG July 2020 2832-2844*
- CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency. *Venkataramanan, V.*, +, *TSG March 2020 1055-1065*
- Distributed Risk-Limiting Load Restoration in Unbalanced Distribution Systems With Networked Microgrids. *Shen, F.*, +, *TSG Nov. 2020 4574-4586*
- Impact of Cascading and Common-Cause Outages on Resilience-Constrained Optimal Economic Operation of Power Systems. *Wang, Y.*, +, *TSG Jan. 2020 590-601*

**Road traffic**

- A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*
- Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. *Qian, T.*, +, *TSG July 2020 3019-3030*
- Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Lv, S.*, +, *TSG May 2020 1854-1865*
- Power and Transport Nexus: Routing Electric Vehicles to Promote Renewable Power Integration. *Zhang, H.*, +, *TSG July 2020 3291-3301*

**Robust control**

- $H_\infty$ -Control of Grid-Connected Converters: Design, Objectives and Decentralized Stability Certificates. *Huang, L.*, +, *TSG Sept. 2020 3805-3816*
- Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. *Yang, T.*, +, *TSG Sept. 2020 4427-4439*
- Deterministic Dynamic State Estimation-Based Optimal LFC for Interconnected Power Systems Using Unknown Input Observer. *Haes Alhelou, H.*, +, *TSG March 2020 1582-1592*
- Distributed Adaptive Robust Voltage/VAR Control With Network Partition in Active Distribution Networks. *Li, P.*, +, *TSG May 2020 2245-2256*

- Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020 37-47*
- Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults. *Dehkordi, N.M.*, +, *TSG May 2020 2699-2708*
- Event Trigger Super Twisting Sliding Mode Control for DC Micro Grid With Matched/Unmatched Disturbance Observer. *Kumar, V.*, +, *TSG Sept. 2020 3837-3849*
- Multi-Objective Adaptive Robust Voltage/VAR Control for High-PV Penetrated Distribution Networks. *Zhang, C.*, +, *TSG Nov. 2020 5288-5300*
- Power Management in Active Distribution Systems Penetrated by Photovoltaic Inverters: A Data-Driven Robust Approach. *Mancilla-David, F.*, +, *TSG May 2020 2271-2280*
- Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*
- Wide-Area Measurement System-Based Low Frequency Oscillation Damping Control Through Reinforcement Learning. *Hashmy, Y.*, +, *TSG Nov. 2020 5072-5083*
- Wide-Area Robust Sliding Mode Controller for Power Systems With False Data Injection Attacks. *Li, M.*, +, *TSG March 2020 922-930*

**Rotors**

- A Practical Secondary Frequency Control Strategy for Virtual Synchronous Generator. *Jiang, K.*, +, *TSG May 2020 2734-2736*
- Synchronized Measurement Technology Supported Online Generator Slow Coherency Identification and Adaptive Tracking. *Naglic, M.*, +, *TSG July 2020 3405-3417*

**S****Sampling methods**

- Constrained Thompson Sampling for Real-Time Electricity Pricing With Grid Reliability Constraints. *Tucker, N.*, +, *TSG Nov. 2020 4971-4983*
- Data-Driven Probabilistic Optimal Power Flow With Nonparametric Bayesian Modeling and Inference. *Sun, W.*, +, *TSG March 2020 1077-1090*
- Impact of Cascading and Common-Cause Outages on Resilience-Constrained Optimal Economic Operation of Power Systems. *Wang, Y.*, +, *TSG Jan. 2020 590-601*

**SCADA systems**

- A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P.*, +, *TSG Sept. 2020 4403-4414*
- A Novel Graph-Based Energy Management System. *Dai, R.*, +, *TSG May 2020 1845-1853*
- Deep Learning Detection of Electricity Theft Cyber-Attacks in Renewable Distributed Generation. *Ismail, M.*, +, *TSG July 2020 3428-3437*
- Detection of Hidden Transformer Tap Change Command Attacks in Transmission Networks. *Chakrabarty, S.*, +, *TSG Nov. 2020 5161-5173*
- Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security. *Roberts, C.*, +, *TSG Jan. 2020 749-761*
- Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*
- Synchrophasor-Based Condition Monitoring of Instrument Transformers Using Clustering Approach. *Cui, B.*, +, *TSG May 2020 2688-2698*

**Scheduling**

- A Fast Algorithm for Optimal Power Scheduling of Large-Scale Appliances With Temporally Spatially Coupled Constraints. *Guo, Z.*, +, *TSG March 2020 1136-1146*
- An Iterative Two-Layer Optimization Charging and Discharging Trading Scheme for Electric Vehicle Using Consortium Blockchain. *Li, Y.*, +, *TSG May 2020 2627-2637*
- Charge Scheduling of Electric Vehicles in Smart Parking-Lot Under Future Demands Uncertainty. *Fallah-Mehrjardi, O.*, +, *TSG Nov. 2020 4949-4959*
- Demand-Side Management With Shared Energy Storage System in Smart Grid. *Jo, J.*, +, *TSG Sept. 2020 4466-4476*
- Integrating Energy Management of Autonomous Smart Grids in Electricity Market Operation. *Haghighat, H.*, +, *TSG Sept. 2020 4044-4055*

- Model-Free Real-Time Autonomous Control for a Residential Multi-Energy System Using Deep Reinforcement Learning. *Ye, Y., +, TSG July 2020 3068-3082*
- Optimal Bidding and Operation Strategies for EV Aggregators by Regrouping Aggregated EV Batteries. *Han, S., +, TSG Nov. 2020 4928-4937*
- Real-Time Residential Demand Response. *Li, H., +, TSG Sept. 2020 4144-4154*
- Search problems**
- A Sponsor Incentive Attack Scheme for Feeder Automation Systems. *Dai, Q., +, TSG March 2020 1440-1452*
- Battery Model Parameterization Using Manufacturer Datasheet and Field Measurement for Real-Time HIL Applications. *Xie, F., +, TSG May 2020 2396-2406*
- Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. *Arif, A., +, TSG Jan. 2020 673-685*
- Scalable and Robust State Estimation From Abundant But Untrusted Data. *Jin, M., +, TSG May 2020 1880-1894*
- Secondary cells**
- Deep Reinforcement Learning-Based Energy Storage Arbitrage With Accurate Lithium-Ion Battery Degradation Model. *Cao, J., +, TSG Sept. 2020 4513-4521*
- Security of data**
- A Cyber-Attack Resilient Distributed Control Strategy in Islanded Microgrids. *Zhou, Q., +, TSG Sept. 2020 3690-3701*
- A Cybersecurity Insurance Model for Power System Reliability Considering Optimal Defense Resource Allocation. *Lau, P., +, TSG Sept. 2020 4403-4414*
- A Survey on the Detection Algorithms for False Data Injection Attacks in Smart Grids. *Musleh, A.S., +, TSG May 2020 2218-2234*
- A Unified Approach for Reliability Assessment of Critical Infrastructures Using Graph Theory and Entropy. *Iranpour, M., +, TSG Nov. 2020 5184-5192*
- CASeS: Concurrent Contingency Analysis-Based Security Metric Deployment for the Smart Grid. *Akaber, P., +, TSG May 2020 2676-2687*
- CP-SAM: Cyber-Physical Security Assessment Metric for Monitoring Microgrid Resiliency. *Venkataramanan, V., +, TSG March 2020 1055-1065*
- Cyber Physical Security Analytics for Transactive Energy Systems. *Zhang, Y., +, TSG March 2020 931-941*
- Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. *Wei, F., +, TSG May 2020 2476-2486*
- Detection and Mitigation of Cyber Attacks on Voltage Stability Monitoring of Smart Grids. *Ghafouri, M., +, TSG Nov. 2020 5227-5238*
- Detection and Mitigation of Data Manipulation Attacks in AC Microgrids. *Mustafa, A., +, TSG May 2020 2588-2603*
- Detection of Hidden Transformer Tap Change Command Attacks in Transmission Networks. *Chakrabarty, S., +, TSG Nov. 2020 5161-5173*
- Dummy Data Attacks in Power Systems. *Liu, X., +, TSG March 2020 1792-1795*
- Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security. *Roberts, C., +, TSG Jan. 2020 749-761*
- Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P., +, TSG July 2020 3447-3456*
- On the Implementation of IoT-Based Digital Twin for Networked Microgrids Resiliency Against Cyber Attacks. *Saad, A., +, TSG Nov. 2020 5138-5150*
- Optimal D-FACTS Placement in Moving Target Defense Against False Data Injection Attacks. *Liu, B., +, TSG Sept. 2020 4345-4357*
- PMU-Based Distributed Non-Iterative Algorithm for Real-Time Voltage Stability Monitoring. *Guddanti, K.P., +, TSG Nov. 2020 5203-5215*
- Power System Parameter Attack for Financial Profits in Electricity Markets. *Xu, H., +, TSG July 2020 3438-3446*
- Pre-Overload-Graph-Based Vulnerable Correlation Identification Under Load Redistribution Attacks. *Liu, Y., +, TSG Nov. 2020 5216-5226*
- Public Plug-in Electric Vehicles + Grid Data: Is a New Cyberattack Vector Viable?. *Acharya, S., +, TSG Nov. 2020 5099-5113*
- Resilient Collaborative Distributed Energy Management System Framework for Cyber-Physical DC Microgrids. *Cheng, Z., +, TSG Nov. 2020 4637-4649*
- Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y., +, TSG Nov. 2020 5151-5160*
- Stealth Attacks on the Smart Grid. *Sun, K., +, TSG March 2020 1276-1285*
- Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F., +, TSG May 2020 2722-2733*
- Self-adjusting systems**
- Microgrid Dynamic Modeling and Islanding Control With Synchrophasor Data. *Konakalla, S.A.R., +, TSG Jan. 2020 905-915*
- Sensitivity analysis**
- Attack Identification and Correction for PMU GPS Spoofing in Unbalanced Distribution Systems. *Zhang, Y., +, TSG Jan. 2020 762-773*
- Establishment of Enhanced Load Modeling by Correlating With Occupancy Information. *Tang, Y., +, TSG March 2020 1702-1713*
- Global Sensitivity Analysis in Load Modeling via Low-Rank Tensor. *Lin, Y., +, TSG May 2020 2737-2740*
- Methodology for Reliability Assessment of Smart Grid Considering Risk of Failure of Communication Architecture. *Zhu, W., +, TSG Sept. 2020 4358-4365*
- Optimal Damping Recovery Scheme for Droop-Controlled Inverter-Based Microgrids. *Raman, G., +, TSG July 2020 2805-2815*
- Optimal Switch Placement in Distribution Systems: A High-Accuracy MILP Formulation. *Shahbazian, A., +, TSG Nov. 2020 5009-5018*
- Quantitative Evaluations of Uncertainties in Multivariate Operations of Microgrids. *Wang, H., +, TSG July 2020 2892-2903*
- WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. *Bu, F., +, TSG Nov. 2020 5407-5417*
- Sensor fusion**
- A Hierarchical Power Grid Fault Diagnosis Method Using Multi-Source Information. *Wang, S., +, TSG May 2020 2067-2079*
- Separating Feeder Demand Into Components Using Substation, Feeder, and Smart Meter Measurements. *Ledva, G.S., +, TSG July 2020 3280-3290*
- Sensor placement**
- Sensor Placement for Outage Identifiability in Power Distribution Networks. *Samudrala, A.N., +, TSG May 2020 1996-2013*
- Sensors**
- Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults. *Dehkordi, N.M., +, TSG May 2020 2699-2708*
- Set theory**
- Data-Driven Wind Generation Admissibility Assessment of Integrated Electric-Heat Systems: A Dynamic Convex Hull-Based Approach. *Wang, C., +, TSG Sept. 2020 4531-4543*
- Share prices**
- An Energy Sharing Game With Generalized Demand Bidding: Model and Properties. *Chen, Y., +, TSG May 2020 2055-2066*
- Ships**
- Robust Coordination of a Hybrid AC/DC Multi-Energy Ship Microgrid With Flexible Voyage and Thermal Loads. *Li, Z., +, TSG July 2020 2782-2793*
- Short-circuit currents**
- Detecting the Location of Short-Circuit Faults in Active Distribution Network Using PMU-Based State Estimation. *Gholami, M., +, TSG March 2020 1396-1406*
- Fog-Computing-Based Short-Circuit Diagnosis Scheme. *Tong, J., +, TSG July 2020 3359-3371*
- Ultrafast Active Response Strategy against Malfunction Attack on Fault Current Limiter. *Wei, F., +, TSG May 2020 2722-2733*
- Smart cities**
- CASeS: Concurrent Contingency Analysis-Based Security Metric Deployment for the Smart Grid. *Akaber, P., +, TSG May 2020 2676-2687*
- Smart meters**
- A Data-Driven Approach for Generating Synthetic Load Patterns and Usage Habits. *Kababji, S.E., +, TSG Nov. 2020 4984-4995*
- A Data-Driven Approach for Targeting Residential Customers for Energy Efficiency Programs. *Liang, H., +, TSG March 2020 1229-1238*
- A Data-Driven Pivot-Point-Based Time-Series Feeder Load Disaggregation Method. *Wang, J., +, TSG Nov. 2020 5396-5406*
- A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S., +, TSG Nov. 2020 4916-4927*



- Aggregation of Multi-Scale Experts for Bottom-Up Load Forecasting. *Goehry, B.*, +, *TSG May 2020 1895-1904*
- Automated Determination of Topology and Line Parameters in Low Voltage Systems Using Smart Meters Measurements. *Cunha, V.C.*, +, *TSG Nov. 2020 5028-5038*
- Bayesian Learning-Based Harmonic State Estimation in Distribution Systems With Smart Meter and DPMU Data. *Zhou, W.*, +, *TSG Jan. 2020 832-845*
- Crosstalk Suppression in Semi-Intrusive Load Monitoring Systems Using Hall Effect Sensors. *Langevin, A.*, +, *TSG Nov. 2020 5019-5027*
- Data-Driven Fault Location of Electric Power Distribution Systems With Distributed Generation. *Jiang, Y.*, *TSG Jan. 2020 129-137*
- Deep Learning Detection of Electricity Theft Cyber-Attacks in Renewable Distributed Generation. *Ismail, M.*, +, *TSG July 2020 3428-3437*
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## T

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 Multi-Resource Allocation of Shared Energy Storage: A Distributed Combinatorial Auction Approach. *Zhong, W.*, +, *TSG Sept. 2020 4105-4115*  
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 Optimal Residential Battery Storage Operations Using Robust Data-Driven Dynamic Programming. *Zhang, N.*, +, *TSG March 2020 1771-1780*

#### Telecommunication control

Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*

#### Telecommunication network reliability

A New Approach to Reliability Assessment and Improvement of Synchronophasor Communications in Smart Grids. *Seyedi, Y.*, +, *TSG Sept. 2020 4415-4426*

Distributed Outage Detection in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG Nov. 2020 5124-5137*

#### Telecommunication network routing

Auditing on Smart-Grid With Dynamic Traffic Flows: An Algorithmic Approach. *Nguyen, L.N.*, +, *TSG May 2020 2293-2302*

#### Telecommunication networks

Quantitative Assessment of Stochastic Property of Network-Induced Time Delay in Smart Substation Cyber Communications. *Zheng, A.*, +, *TSG May 2020 2407-2416*

#### Telecommunication security

*iCASM*: An Information-Centric Network Architecture for Wide Area Measurement Systems. *Ravikumar, G.*, +, *TSG July 2020 3418-3427*  
 Auditing on Smart-Grid With Dynamic Traffic Flows: An Algorithmic Approach. *Nguyen, L.N.*, +, *TSG May 2020 2293-2302*  
 Model-Free Data Authentication for Cyber Security in Power Systems. *Liu, S.*, +, *TSG Sept. 2020 4565-4568*  
 Multi-Agent Based Attack-Resilient System Integrity Protection for Smart Grid. *Wang, P.*, +, *TSG July 2020 3447-3456*

#### Telecommunication traffic

Auditing on Smart-Grid With Dynamic Traffic Flows: An Algorithmic Approach. *Nguyen, L.N.*, +, *TSG May 2020 2293-2302*

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A Data-Driven Pattern Extraction Method for Analyzing Bidding Behaviors in Power Markets. *Guo, H.*, +, *TSG July 2020 3509-3521*  
 Deep Reinforcement Learning for Strategic Bidding in Electricity Markets. *Ye, Y.*, +, *TSG March 2020 1343-1355*

#### Tensors

Global Sensitivity Analysis in Load Modeling via Low-Rank Tensor. *Lin, Y.*, +, *TSG May 2020 2737-2740*

#### Thermal comfort

A Joint Electrical and Thermodynamic Approach to HVAC Load Control. *Jazaeri, J.*, +, *TSG Jan. 2020 15-25*  
 A Novel Domestic Electric Water Heater Control Method. *Xiang, S.*, +, *TSG July 2020 3246-3256*  
 An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*  
 Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*

#### Thermal power stations

An Energy Management System for Isolated Microgrids With Thermal Energy Resources. *Violante, W.*, +, *TSG July 2020 2880-2891*  
 Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. *Badakhshan, S.*, +, *TSG Jan. 2020 118-128*

#### Thermostats

A Novel Domestic Electric Water Heater Control Method. *Xiang, S.*, +, *TSG July 2020 3246-3256*

Demand Smoothing in Military Microgrids Through Coordinated Direct Load Control. *Shabshab, S.C.*, +, *TSG May 2020 1917-1927*

Desynchronized Model Predictive Control for Large Populations of Fans in Server Racks of Datacenters. *Laparra, G.*, +, *TSG Jan. 2020 411-419*

Flexibility Estimation and Control of Thermostatically Controlled Loads With Lock Time for Regulation Service. *Wang, P.*, +, *TSG July 2020 3221-3230*

Heuristic Algorithms for Aggregated HVAC Control via Smart Thermostats for Regulation Service. *Adhikari, R.*, +, *TSG May 2020 2023-2032*

Hierarchical Scheduling of Aggregated TCL Flexibility for Transactive Energy in Power Systems. *Song, M.*, +, *TSG May 2020 2452-2463*

#### Three-term control

Deep Reinforcement Learning-Based Controller for SOC Management of Multi-Electrical Energy Storage System. *Sanchez Gorostiza, F.*, +, *TSG Nov. 2020 5039-5050*

Energy-Storage-Based Intelligent Frequency Control of Microgrid With Stochastic Model Uncertainties. *Mu, C.*, +, *TSG March 2020 1748-1758*

#### Thyristors

Design of a Seamless Grid-Connected Inverter for Microgrid Applications. *Lo, K.*, +, *TSG Jan. 2020 194-202*

#### Time series

A Data-Driven Pivot-Point-Based Time-Series Feeder Load Disaggregation Method. *Wang, J.*, +, *TSG Nov. 2020 5396-5406*

A Deep Generative Model for Non-Intrusive Identification of EV Charging Profiles. *Wang, S.*, +, *TSG Nov. 2020 4916-4927*

A Methodological Framework to support Load Forecast Error Assessment in Local Energy Markets. *Schreck, S.*, +, *TSG July 2020 3212-3220*

A Mid-Term DSO Market for Capacity Limits: How to Estimate Opportunity Costs of Aggregators?. *Ziras, C.*, +, *TSG Jan. 2020 334-345*

Data-Driven Distribution System Load Modeling for Quasi-Static Time-Series Simulation. *Zhu, X.*, +, *TSG March 2020 1556-1565*

Electricity Theft Pinpointing Through Correlation Analysis of Master and Individual Meter Readings. *Biswas, P.P.*, +, *TSG July 2020 3031-3042*

Hierarchical Clustering for Smart Meter Electricity Loads Based on Quantile Autocovariances. *Alonso, A.M.*, +, *TSG Sept. 2020 4522-4530*

Wavelet-Based Decompositions in Probabilistic Load Forecasting. *Alfieri, L.*, +, *TSG March 2020 1367-1376*

#### Time-domain analysis

Deep Reinforcement Learning-Based Approach for Proportional Resonance Power System Stabilizer to Prevent Ultra-Low-Frequency Oscillations. *Zhang, G.*, +, *TSG Nov. 2020 5260-5272*

Optimal Load Restoration in Active Distribution Networks Complying With Starting Transients of Induction Motors. *Sekhavatmanesh, H.*, +, *TSG Sept. 2020 3957-3969*

#### Time-frequency analysis

Multi-View Convolutional Neural Network for Data Spoofing Cyber-Attack Detection in Distribution Synchronphasors. *Qiu, W.*, +, *TSG July 2020 3457-3468*

#### Time-varying systems

A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*

Accurate Consensus-Based Distributed Averaging With Variable Time Delay in Support of Distributed Secondary Control Algorithms. *Du, Y.*, +, *TSG July 2020 2918-2928*

Dynamic Distribution State Estimation Using Synchronphasor Data. *Song, J.*, +, *TSG Jan. 2020 821-831*

Gradient-Based Multi-Area Distribution System State Estimation. *Zhou, X.*, +, *TSG Nov. 2020 5325-5338*

Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*

#### Topology

Optimal Reconfiguration of Distribution Network Using  $\mu$  PMU Measurements: A Data-Driven Stochastic Robust Optimization. *Akrami, A.*, +, *TSG Jan. 2020 420-428*

#### Traffic engineering computing

A Distributed EV Navigation Strategy Considering the Interaction Between Power System and Traffic Network. *Shi, X.*, +, *TSG July 2020 3545-3557*

#### Transfer functions

Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control. *Huang, L.*, +, *TSG Jan. 2020 501-516*

#### Transmission networks

Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements. *Ramapuram Matavalam, A.R.*, +, *TSG Jan. 2020 873-883*

Sequential-Mining-Based Vulnerable Branches Identification for the Transmission Network Under Continuous Load Redistribution Attacks. *Liu, Y.*, +, *TSG Nov. 2020 5151-5160*

#### Transportation

Adaptive Distributionally Robust Optimization for Electricity and Electrified Transportation Planning. *Hajebrahimi, A.*, +, *TSG Sept. 2020 4278-4289*

Deep Reinforcement Learning for EV Charging Navigation by Coordinating Smart Grid and Intelligent Transportation System. *Qian, T.*, +, *TSG March 2020 1714-1723*

Optimal Power and Semi-Dynamic Traffic Flow in Urban Electrified Transportation Networks. *Ly, S.*, +, *TSG May 2020 1854-1865*

PEV Fast-Charging Station Sizing and Placement in Coupled Transportation-Distribution Networks Considering Power Line Conditioning Capability. *Hashemian, S.N.*, +, *TSG Nov. 2020 4773-4783*

Plug-in Electric Vehicle Behavior Modeling in Energy Market: A Novel Deep Learning-Based Approach With Clustering Technique. *Jahangir, H.*, +, *TSG Nov. 2020 4738-4748*

Rolling Optimization of Mobile Energy Storage Fleets for Resilient Service Restoration. *Yao, S.*, +, *TSG March 2020 1030-1043*

#### TREE searching

Automating the Verification of the Low Voltage Network Cables and Topologies. *Mokhtar, M.*, +, *TSG March 2020 1657-1666*

Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*

#### Turbogenerators

A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. *He, L.*, +, *TSG March 2020 1737-1747*

## U

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Context Aware Energy Disaggregation Using Adaptive Bidirectional LSTM Models. *Kaselimi, M.*, +, *TSG July 2020 3054-3067*

#### Uncertain systems

Data-Based Resilience Enhancement Strategies for Electric-Gas Systems Against Sequential Extreme Weather Events. *Liu, R.*, +, *TSG Nov. 2020 5383-5395*

Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large-Signal Stability. *Zhang, C.*, +, *TSG Jan. 2020 391-402*

Resilient  $H_\infty$  Consensus-Based Control of Autonomous AC Microgrids With Uncertain Time-Delayed Communications. *Raeispour, M.*, +, *TSG Sept. 2020 3871-3884*

#### Uninterruptible power supplies

Stochastic Time-of-Use-Type Constraints for Uninterruptible Services. *Batista, A.*, +, *TSG Jan. 2020 229-232*

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Optimal Reconfiguration of Distribution Network Using  $\mu$  PMU Measurements: A Data-Driven Stochastic Robust Optimization. *Akrami, A.*, +, *TSG Jan. 2020 420-428*

Plug-in Electric Vehicle Behavior Modeling in Energy Market: A Novel Deep Learning-Based Approach With Clustering Technique. *Jahangir, H.*, +, *TSG Nov. 2020 4738-4748*

Unsupervised Impedance and Topology Estimation of Distribution Networks—Limitations and Tools. *Moffat, K.*, +, *TSG Jan. 2020 846-856*

## V

**Variable structure systems**

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- Distributed Control of Networked Wide-Area Systems: A Power System Application. *Bijami, E.*, +, *TSG July 2020 3334-3345*
- Event Trigger Super Twisting Sliding Mode Control for DC Micro Grid With Matched/Unmatched Disturbance Observer. *Kumar, V.*, +, *TSG Sept. 2020 3837-3849*
- Wide-Area Robust Sliding Mode Controller for Power Systems With False Data Injection Attacks. *Li, M.*, +, *TSG March 2020 922-930*

**Vehicle routing**

- Power and Transport Nexus: Routing Electric Vehicles to Promote Renewable Power Integration. *Zhang, H.*, +, *TSG July 2020 3291-3301*
- Pricing and Routing Mechanisms for Differentiated Services in an Electric Vehicle Public Charging Station Network. *Moradipari, A.*, +, *TSG March 2020 1489-1499*

**Vehicle-to-grid**

- Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*

**Virtual storage**

- Virtual Energy Storage Sharing and Capacity Allocation. *Zhao, D.*, +, *TSG March 2020 1112-1123*

**Virtualization**

- A Practical Secondary Frequency Control Strategy for Virtual Synchronous Generator. *Jiang, K.*, +, *TSG May 2020 2734-2736*
- VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. *Yazdanejad, M.*, +, *TSG July 2020 3632-3645*

**Voltage control**

- A Distributed Task Allocation Based on a Winner-Take-All Approach for Multiple Energy Storage Systems Coordination in a Microgrid. *Xu, Y.*, +, *TSG Jan. 2020 686-695*
- A Hybrid Method for Electric Spring Control Based on Data and Knowledge Integration. *Zhao, H.*, +, *TSG May 2020 2303-2312*
- A Model Predictive Power Control Method for PV and Energy Storage Systems With Voltage Support Capability. *Shan, Y.*, +, *TSG March 2020 1018-1029*
- A Novel Secondary Optimal Control for Multiple Battery Energy Storages in a DC Microgrid. *Zhou, J.*, +, *TSG Sept. 2020 3716-3725*
- A Two-Layer Distributed Cooperative Control Method for Islanded Networked Microgrid Systems. *Wu, X.*, +, *TSG March 2020 942-957*
- Affine Arithmetic-Based Coordinated Interval Power Flow of Integrated Transmission and Distribution Networks. *Tang, K.*, +, *TSG Sept. 2020 4116-4132*
- An Integrated Planning Approach for Distributed Generation Interconnection in Cyber Physical Active Distribution Systems. *Liu, W.*, +, *TSG Jan. 2020 541-554*
- Autonomous Coordinated Control Scheme for Cooperative Asymmetric Low-Voltage Ride-Through and Grid Support in Active Distribution Networks With Multiple DG Units. *Shabestary, M.M.*, +, *TSG May 2020 2125-2139*
- Building Large-Scale U.S. Synthetic Electric Distribution System Models. *Mateo, C.*, +, *TSG Nov. 2020 5301-5313*
- Cooperative Fault-Tolerant Control of Microgrids Under Switching Communication Topology. *Afshari, A.*, +, *TSG May 2020 1866-1879*
- Decentralized and Per-Unit Primary Control Framework for DC Distribution Networks With Multiple Voltage Levels. *Wang, X.*, +, *TSG Sept. 2020 3993-4004*
- Decentralized Bidirectional Voltage Supporting Control for Multi-Mode Hybrid AC/DC Microgrid. *Yang, P.*, +, *TSG May 2020 2615-2626*
- Design of a Seamless Grid-Connected Inverter for Microgrid Applications. *Lo, K.*, +, *TSG Jan. 2020 194-202*
- Designing Reactive Power Control Rules for Smart Inverters Using Support Vector Machines. *Jalali, M.*, +, *TSG March 2020 1759-1770*
- Detection and Mitigation of Data Manipulation Attacks in AC Microgrids. *Mustafa, A.*, +, *TSG May 2020 2588-2603*

- Detection of Hidden Transformer Tap Change Command Attacks in Transmission Networks. *Chakrabarty, S.*, +, *TSG Nov. 2020 5161-5173*
- Development of New Identification Method for Global Group of Controls for Online Coordinated Voltage Control in Active Distribution Networks. *Alzaareer, K.*, +, *TSG Sept. 2020 3921-3931*
- Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*
- Distributed Adaptive Robust Voltage/VAR Control With Network Partition in Active Distribution Networks. *Li, P.*, +, *TSG May 2020 2245-2256*
- Distributed Consensus-Based Fault Tolerant Control of Islanded Microgrids. *Shahab, M.A.*, +, *TSG Jan. 2020 37-47*
- Distributed Online VAR Control for Unbalanced Distribution Networks With Photovoltaic Generation. *Li, J.*, +, *TSG Nov. 2020 4760-4772*
- Distributed Optimal Control of Energy Storages in a DC Microgrid With Communication Delay. *Shi, M.*, +, *TSG May 2020 2033-2042*
- Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*
- Distributed Periodic Event-Triggered Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. *Fan, B.*, +, *TSG Jan. 2020 577-589*
- Distributed Predictive Control for Frequency and Voltage Regulation in Microgrids. *Gomez, J.S.*, +, *TSG March 2020 1319-1329*
- Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults. *Dehkordi, N.M.*, +, *TSG May 2020 2699-2708*
- Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*
- Distributed Secondary Control for Current Sharing and Voltage Restoration in DC Microgrid. *Xing, L.*, +, *TSG May 2020 2487-2497*
- Distributed Secondary Voltage Control in Islanded Microgrids With Consideration of Communication Network and Time Delays. *Lou, G.*, +, *TSG Sept. 2020 3702-3715*
- Distributed Solution of Stochastic Volt/VAR Control in Radial Networks. *Nazir, F.U.*, +, *TSG Nov. 2020 5314-5324*
- Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees. *Mohiuddin, S.M.*, +, *TSG May 2020 1956-1967*
- Event Trigger Super Twisting Sliding Mode Control for DC Micro Grid With Matched/Unmatched Disturbance Observer. *Kumar, V.*, +, *TSG Sept. 2020 3837-3849*
- Grid-Synchronization Stability Analysis and Loop Shaping for PLL-Based Power Converters With Different Reactive Power Control. *Huang, L.*, +, *TSG Jan. 2020 501-516*
- Hierarchical Distributed Voltage Optimization Method for HV and MV Distribution Networks. *Chai, Y.*, +, *TSG March 2020 968-980*
- Hierarchically-Coordinated Voltage/VAR Control of Distribution Networks Using PV Inverters. *Zhang, C.*, +, *TSG July 2020 2942-2953*
- Monitoring Long Term Voltage Instability Due to Distribution and Transmission Interaction Using Unbalanced  $\mu$  PMU and PMU Measurements. *Ramapuram Matavalam, A.R.*, +, *TSG Jan. 2020 873-883*
- Multi-Objective Adaptive Robust Voltage/VAR Control for High-PV Penetrated Distribution Networks. *Zhang, C.*, +, *TSG Nov. 2020 5288-5300*
- Non-Linear Primary Control Mapping for Droop-Like Behavior of Microgrid Systems. *Legry, M.*, +, *TSG Nov. 2020 4604-4613*
- Optimized Autonomous Operation Control to Maintain the Frequency, Voltage and Accurate Power Sharing for DGs in Islanded Systems. *Sun, L.*, +, *TSG Sept. 2020 3885-3895*
- Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S.*, +, *TSG Sept. 2020 3860-3870*
- Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration. *Al-Saffar, M.*, +, *TSG July 2020 2980-2994*
- Safe Off-Policy Deep Reinforcement Learning Algorithm for Volt-VAR Control in Power Distribution Systems. *Wang, W.*, +, *TSG July 2020 3008-3018*
- Seamless Transition of Microgrids Operation From Grid-Connected to Islanded Mode. *Ganjan-Aboukheili, M.*, +, *TSG May 2020 2106-2114*
- Signal-Anticipation in Local Voltage Control in Distribution Systems. *Liu, Z.*, +, *TSG Jan. 2020 233-246*

Toward Distributed Energy Services: Decentralizing Optimal Power Flow With Machine Learning. *Dobbe, R.*, +, *TSG March 2020 1296-1306*

Two-Timescale Voltage Control in Distribution Grids Using Deep Reinforcement Learning. *Yang, Q.*, +, *TSG May 2020 2313-2323*

Unbalanced Voltage Suppression in a Bipolar DC Distribution Network Based on DC Electric Springs. *Liao, J.*, +, *TSG March 2020 1667-1678*

Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. *Guo, J.*, +, *TSG Nov. 2020 4938-4948*

Voltage Control for Distribution Networks via Coordinated Regulation of Active and Reactive Power of DGs. *Hu, X.*, +, *TSG Sept. 2020 4017-4031*

Voltage Regulation of DC-Microgrid With PV and Battery. *Sun, J.*, +, *TSG Nov. 2020 4662-4675*

#### Voltage measurement

A Wideband Single End Fault Location Scheme for Active Untransposed Distribution Systems. *Aboshady, F.M.*, +, *TSG May 2020 2115-2124*

Detecting the Location of Short-Circuit Faults in Active Distribution Network Using PMU-Based State Estimation. *Gholami, M.*, +, *TSG March 2020 1396-1406*

Distributed Optimal Voltage Control With Asynchronous and Delayed Communication. *Magnusson, S.*, +, *TSG July 2020 3469-3482*

Large-Scale Generation and Validation of Synthetic PMU Data. *Idehen, I.*, +, *TSG Sept. 2020 4290-4298*

Measurement-Based Voltage Stability Assessment Considering Generator VAR Limits. *Liu, C.*, +, *TSG Jan. 2020 301-311*

Separating Feeder Demand Into Components Using Substation, Feeder, and Smart Meter Measurements. *Ledva, G.S.*, +, *TSG July 2020 3280-3290*

Sparse Voltage Measurement-Based Fault Location Using Intelligent Electronic Devices. *Jia, K.*, +, *TSG Jan. 2020 48-60*

Unsupervised Impedance and Topology Estimation of Distribution Networks—Limitations and Tools. *Moffat, K.*, +, *TSG Jan. 2020 846-856*

#### Voltage regulators

Discrete-Time Self-Triggered Control of DC Microgrids With Data Dropouts and Communication Delays. *Peng, J.*, +, *TSG Nov. 2020 4626-4636*

Distributed Predictive Control for Frequency and Voltage Regulation in Microgrids. *Gomez, J.S.*, +, *TSG March 2020 1319-1329*

Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks. *Zuo, S.*, +, *TSG Sept. 2020 3850-3859*

Droop-Free Distributed Control for AC Microgrids With Precisely Regulated Voltage Variance and Admissible Voltage Profile Guarantees. *Mohiuddin, S.M.*, +, *TSG May 2020 1956-1967*

Hierarchical Distributed Voltage Optimization Method for HV and MV Distribution Networks. *Chai, Y.*, +, *TSG March 2020 968-980*

Learning Behavior of Distribution System Discrete Control Devices for Cyber-Physical Security. *Roberts, C.*, +, *TSG Jan. 2020 749-761*

Safe Off-Policy Deep Reinforcement Learning Algorithm for Volt-VAR Control in Power Distribution Systems. *Wang, W.*, +, *TSG July 2020 3008-3018*

#### Voltage-source converters

Anti-Islanding Protection of PV-Based Microgrids Consisting of PHEVs Using SVMs. *Baghaee, H.R.*, +, *TSG Jan. 2020 483-500*

High Frequency Transient Sparse Measurement-Based Fault Location for Complex DC Distribution Networks. *Jia, K.*, +, *TSG Jan. 2020 312-322*

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#### Warehousing

A Stochastic Multi-Commodity Logistic Model for Disaster Preparation in Distribution Systems. *Arif, A.*, +, *TSG Jan. 2020 565-576*

#### Water pumps

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#### Water storage

Optimal Coordinated Operation of Interdependent Power and Water Distribution Systems. *Oikonomou, K.*, +, *TSG Nov. 2020 4784-4794*

#### Water supply

Optimal Coordinated Operation of Interdependent Power and Water Distribution Systems. *Oikonomou, K.*, +, *TSG Nov. 2020 4784-4794*

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A Novel Domestic Electric Water Heater Control Method. *Xiang, S.*, +, *TSG July 2020 3246-3256*

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High Frequency Transient Sparse Measurement-Based Fault Location for Complex DC Distribution Networks. *Jia, K.*, +, *TSG Jan. 2020 312-322*

Wavelet-Based Decompositions in Probabilistic Load Forecasting. *Alfieri, L.*, +, *TSG March 2020 1367-1376*

#### Web services

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#### Wind

A Planning-Oriented Resilience Assessment Framework for Transmission Systems Under Typhoon Disasters. *Liu, X.*, +, *TSG Nov. 2020 5431-5441*

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Minimizing Wind Power Curtailment Using a Continuous-Time Risk-Based Model of Generating Units and Bulk Energy Storage. *Nikoobakht, A.*, +, *TSG Nov. 2020 4833-4846*

#### Wind power plants

A Regret-Based Stochastic Bi-Level Framework for Scheduling of DR Aggregator Under Uncertainties. *Rashidizadeh-Kermani, H.*, +, *TSG July 2020 3171-3184*

Continuous-Time Co-Operation of Integrated Electricity and Natural Gas Systems With Responsive Demands Under Wind Power Generation Uncertainty. *Nikoobakht, A.*, +, *TSG July 2020 3156-3170*

Data-Driven Probabilistic Optimal Power Flow With Nonparametric Bayesian Modeling and Inference. *Sun, W.*, +, *TSG March 2020 1077-1090*

Data-Driven Wide-Area Model-Free Adaptive Damping Control With Communication Delays for Wind Farm. *Shi, X.*, +, *TSG Nov. 2020 5062-5071*

Data-Driven Wind Generation Admissibility Assessment of Integrated Electric-Heat Systems: A Dynamic Convex Hull-Based Approach. *Wang, C.*, +, *TSG Sept. 2020 4531-4543*

Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. *Qian, T.*, +, *TSG July 2020 3019-3030*

Minimizing Wind Power Curtailment Using a Continuous-Time Risk-Based Model of Generating Units and Bulk Energy Storage. *Nikoobakht, A.*, +, *TSG Nov. 2020 4833-4846*

Probabilistic Reactive Power Capability Charts at DSO/TSO Interface. *Stankovic, S.*, +, *TSG Sept. 2020 3860-3870*

Risk-Loss Coordinated Admissibility Assessment of Wind Generation for Integrated Electric-Gas Systems. *Wang, C.*, +, *TSG Sept. 2020 4454-4465*

Temporal Decomposition-Based Stochastic Economic Dispatch for Smart Grid Energy Management. *Safdarian, F.*, +, *TSG Sept. 2020 4544-4554*

Using a Supercapacitor to Mitigate Battery Microcycles Due to Wind Shear and Tower Shadow Effects in Wind-Diesel Microgrids. *Mohammadi, E.*, +, *TSG Sept. 2020 3677-3689*

VPP Self-Scheduling Strategy Using Multi-Horizon IGDT, Enhanced Normalized Normal Constraint, and Bi-Directional Decision-Making Approach. *Yazdaninejad, M.*, +, *TSG July 2020 3632-3645*

#### Wind turbines

A Comprehensive Inertial Control Strategy for Hybrid AC/DC Microgrid With Distributed Generations. *He, L.*, +, *TSG March 2020 1737-1747*

Using a Supercapacitor to Mitigate Battery Microcycles Due to Wind Shear and Tower Shadow Effects in Wind-Diesel Microgrids. *Mohammadi, E.*, +, *TSG Sept. 2020 3677-3689*

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Distributed Outage Detection in Power Distribution Networks. *Samudrala, A.N.*, +, *TSG Nov. 2020 5124-5137*