











10.24251/hicss.2017.375.

- [12] V. H. Quintana, A. Simoes-Costa, and A. Mandel, "Power system topological observability using a direct graph-theoretic approach," *IEEE Trans. Power Appar. Syst.*, 1982, doi: 10.1109/TPAS.1982.317275.
- [13] H. Herrero and C. Solares, "A Greedy Algorithm for Observability Analysis," *IEEE Trans. Power Syst.*, 2020, doi: 10.1109/TPWRS.2019.2955376.
- [14] H. Zhang and K. Han, "A Hybrid Observability Analysis Method for Power System State Estimation," *IEEE Access*, 2020, doi: 10.1109/ACCESS.2020.2987358.
- [15] K. Dehghanpour, Y. Yuan, Z. Wang, and F. Bu, "A Game-Theoretic Data-Driven Approach for Pseudo-Measurement Generation in Distribution System State Estimation," *IEEE Trans. Smart Grid*, 2019, doi: 10.1109/TSG.2019.2893818.
- [16] Z. Cao, Y. Wang, C. C. Chu, and R. Gadh, "Robust pseudo-measurement modeling for three-phase distribution systems state estimation," *Electr. Power Syst. Res.*, 2020, doi: 10.1016/j.epsr.2019.106138.
- [17] Y. Yuan, K. Dehghanpour, F. Bu, and Z. Wang, "A Probabilistic Data-Driven Method for Photovoltaic Pseudo-Measurement Generation in Distribution Systems," 2019, doi: 10.1109/PESGM40551.2019.8974026.
- [18] M. Cosovic and D. Vukobratovic, "Distributed Gauss-Newton Method for State Estimation Using Belief Propagation," *IEEE Trans. Power Syst.*, 2019, doi: 10.1109/TPWRS.2018.2866583.
- [19] W. Zheng and W. Wu, "An Adaptive Distributed Quasi-Newton Method for Power System State Estimation," *IEEE Trans. Smart Grid*, 2018, doi: 10.1109/TSG.2018.2875736.
- [20] L. Zhang and K. Lai, "A novel complex linear state estimator for smart power distribution systems: methodology and implementation," *Int. J. Electr. Power Energy Syst.*, 2020, doi: 10.1016/j.ijepes.2020.106312.
- [21] D. Graupe, *Principles of Artificial Neural Networks*. 2016.
- [22] E. Manitsas, R. Singh, B. C. Pal, and G. Strbac, "Distribution system state estimation using an artificial neural network approach for pseudo measurement modeling," *IEEE Trans. Power Syst.*, vol. 27, no. 4, 2012, doi: 10.1109/TPWRS.2012.2187804.
- [23] K. R. Mestav, J. Luengo-Rozas, and L. Tong, "Bayesian State Estimation for Unobservable Distribution Systems via Deep Learning," *IEEE Trans. Power Syst.*, vol. 34, no. 6, 2019, doi: 10.1109/TPWRS.2019.2919157.
- [24] J. H. Menke, N. Bornhorst, and M. Braun, "Distribution system monitoring for smart power grids with distributed generation using artificial neural networks," *Int. J. Electr. Power Energy Syst.*, vol. 113, 2019, doi: 10.1016/j.ijepes.2019.05.057.
- [25] D. P. Kingma and J. L. Ba, "Adam: A method for stochastic optimization," 2015.
- [26] C. Ravazzi and E. Magli, "Fast and robust EM-based IRLS algorithm for sparse signal recovery from noisy measurements," in *ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings*, 2015, vol. 2015-August.
- [27] J. Zhao, L. Mili, and R. C. Pires, "Statistical and numerical robust state estimator for heavily loaded power systems," *IEEE Trans. Power Syst.*, vol. 33, no. 6, pp. 6904–6914, Nov. 2018, doi: 10.1109/TPWRS.2018.2849325.
- [28] L. Thurner *et al.*, "Pandapower - An Open-Source Python Tool for Convenient Modeling, Analysis, and Optimization of Electric Power Systems," *IEEE Trans. Power Syst.*, vol. 33, no. 6, 2018, doi: 10.1109/TPWRS.2018.2829021.
- [29] F. Pedregosa *et al.*, "Scikit-learn: Machine learning in Python," *J. Mach. Learn. Res.*, vol. 12, 2011.
- [30] S. Meinecke *et al.*, "SimBench-A benchmark dataset of electric power systems to compare innovative solutions based on power flow analysis," *Energies*, vol. 13, no. 12, 2020, doi: 10.3390/en13123290.