

Publications

Journals

- **S. Poudel**, A. Dubey, A. Bose, and Kevin P. Schneider, “Leveraging Distributed Generation Resources for Reliable and Resilient Power Distribution System,” *Submitted to IEEE Transactions on Sustainable Energy*.
- **S. Poudel**, A. Dubey, and A. Bose, “Risk-based Probabilistic Quantification of Power Distribution System Resilience,” *Revised and submitted to IEEE Systems Journal*.
- A. Gandluru, **S. Poudel**, and A. Dubey “Joint Estimation of Operational Topology and Outages for Unbalanced Power Distribution Systems,” *IEEE Transactions on Power Systems*, Aug. 2019
- **S. Poudel** and A. Dubey, “Critical Load Restoration Using Distributed Energy Resources for Resilient Power Distribution System,” *IEEE Transactions on Power Systems*, vol. 34, no. 1, pp. 52-63, Jan. 2019.
- **S. Poudel**, Z. Ni, and W. Sun, “Electrical distance approach for searching vulnerable branches during contingencies,” *IEEE Transactions on Smart Grid*, vol. 9, no. 4, pp. 3373-3382, July 2018.
- **S. Poudel**, Z. Ni, and N. Malla, “Real-time cyber physical system testbed for power system security and control,” *Int. J. Electr. Power Energy Syst.*, vol. 90, pp. 124–133, Sep. 2017

Conferences

- **S. Poudel**, A. Dubey, and A. Bose “Probabilistic Quantification of Power Distribution System Resilience,” *2019 IEEE Power & Energy Society General Meeting*, Atlanta, GA, 2019, pp. 1-5.
- **S. Poudel**, H. Sun, D. Nikovski, and J. Zhang “Resilient Restoration of Power Distribution System Based on Minimum Spanning Forest,” *2019 IEEE Power & Energy Society General Meeting*, Atlanta, GA, 2019, pp. 1-5.
- **S. Poudel**, H. Sun, D. Nikovski, and J. Zhang “Distributed Average Consensus Algorithm for Damage Assessment of Power Distribution system,” *submitted to 2019 IEEE Global Communications Conference*.
- A. Gandluru, **S. Poudel**, and A. Dubey, “A Non-Exhaustive Search Algorithm to Identify Distribution Grid Operational Topology,” *2019 North American Power Symposium (NAPS)*, pp. 1–6, IEEE, 2019
- **S. Poudel** and A. Dubey, “A Graph-theoretic Framework for Electric Power Distribution System Service Restoration,” *2018 IEEE Power & Energy Society General Meeting*, Portland, OR, 2018, pp. 1-5.
- **S. Poudel**, M. Mukherjee, and A. Dubey, “Optimal Positioning of Mobile Emergency Resources for Resilient Restoration”, in *2018 North American Power Symposium (NAPS)*, pp. 1–6, IEEE, 2018
- M. Mukherjee, **S. Poudel**, A. Dubey, and A. Bose, “Distributed Generator Sizing for Joint Optimization of Resilience and Voltage Regulation”, in *2018 North American Power Symposium (NAPS)*, pp. 1–6, IEEE, 2018
- A. Dubey and **S. Poudel**, “A Robust Approach to Restoring Critical Loads in a Resilient Power Distribution System,” *2017 IEEE Power & Energy Society General Meeting*, Chicago, IL, 2017, pp. 1-5.
- N. Malla, **S. Poudel**, N. Gyawali, N. R. Karki, “Resilience of Electric Power Delivery System in Response to Natural Disaster”, *2017 7th International Conference on Power Systems (ICPS)*, Pune, 2017, pp. 806-811.
- **S. Poudel**, Zhen Ni, T. M. Hansen and R. Tonkoski, “Cascading failures and transient stability experiment analysis in power grid security,” *2016 IEEE Power & Energy Society Innovative Smart Grid Technologies Conference (ISGT)*, Minneapolis, MN, 2016, pp. 1-5.
- **S. Poudel**, Z. Ni, X. Zhong and H. He, “Comparative studies of power grid security with network connectivity and power flow information using unsupervised learning,” *2016 International Joint Conference on Neural Networks (IJCNN)*, Vancouver, BC, 2016, pp. 2730-2737.