



Abhisek Mishra, Ph.D.

Name : Abhisek Mishra
Designation : Assistant Professor
Department : Department of Electrical and Electronics Engineering (JOINED THE INSTITUTE IN 2026)
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RESEARCH INTERESTS

- ✓ Microgrid Operation and Planning.
- ✓ Microgrid Protection.
- ✓ Power System Security.
- ✓ Distribution System.
- ✓ PMU application to Microgrid.
- ✓ Power System Analysis.

Academic Qualifications

Post- Doc: Khalifa University of Science and Technology, Abu Dhabi, UAE.

Ph. D. (Power System): Indian Institute of Technology, Roorkee, India.

M. Tech. (Power System): National Institute of Technology, Hamirpur, India.

Teaching Experience/Industrial Experience/Research Experience

- ✓ *Research Experience*
2 years Research Experience as Post-doctoral Fellow at Khalifa University, Abu Dhabi, UAE from April 2023 to April 2025.
- ✓ *Teaching Experience*
10 months Teaching Experience as Assistant Professor at CV Raman College of Engineering, CRGU, Odisha from July, 2015 to May, 2016.

PUBLICATIONS

JOURNAL & CONFERENCES

- [1]. **A. Mishra and P. Jena**, "A Scheduled Intentional Islanding Method Based on Ranking of Possible Islanding Zone," in *IEEE Transactions on Smart Grid*, vol. 12, no. 3, pp. 1853-1866, May 2021.

- [2]. **A. Mishra and P. Jena**, "Application of Blockchain Technology for Microgrid Restoration," in *IEEE Transactions on Power Delivery*, vol. 38, no. 3, pp. 1810-1825, June 2023.
- [3]. **A. Mishra, T. H.M. EL-Fouly, H. Zeineldin, and E. El-Saadany**, "Novel System Stability Indices-based Framework for Scheduled Intentional Islanding in Microgrids" , in *Journal of Modern Power System and Clean Energy*, Early Access, 2026, doi: 10.35833/MPCE.2025.000335.
- [4]. **A. Mishra, S. Chauhan, S. Jena, and M. Kumar**, "Neuro-Fuzzy Approach to Contingency Ranking," in *Smart Grid Security and Protection*, A. Q. H. Badar, M. N. Alam, and A. Berrada, Eds., Singapore: Springer, 2025, pp. 111–125 [Online]. Available: https://doi.org/10.1007/978-981-96-0824-9_11
- [5]. **A. Mishra and P. Jena**, "Unscheduled Intentional Islanding in Microgrid using Trust Region based Sequential Linear Programming," in *2021 9th IEEE International Conference on Power Systems (ICPS)*, Kharagpur, India, pp. 1-6, 2021.
- [6]. **A. Mishra and P. Jena**, "Restoration in Microgrid using System Stability Criteria," in *2019 8th IEEE International Conference on Power Systems (ICPS)*, pp. 1-6, 2019.
- [7]. **A. Mishra and P. Jena**, "Superimposed positive sequence voltage and current based islanding detection techniques for microgrid," in *2017 6th International Conference on Computer Applications In Electrical Engineering-Recent Advances (CERA)*, pp. 282-285, 2017.

ANY OTHER

Book / Book Chapters

- [1]. **A. Mishra, and P. Jena**, "Application of synchrophasor technology for microgrid protection" in *Synchrophasor Technology: Real-time Operation of Power Networks*, IET, 190, p.227, 2023.

Conferences attended

- ✓ 9th IEEE International Conference on Power Systems (ICPS), 2021.
- ✓ 8th IEEE International Conference on Power Systems (ICPS), 2019.
- ✓ 6th International Conference on Computer Applications In Electrical Engineering-Recent Advances (CERA), 2017.

Expert Talk Delivered

- ✓ Expert talk delivered in National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh during the STC on "Distributed Energy Sources and Smart Grid" during 04th to 08th August, 2025.

Memberships

- ✓ IEEE