

Dr. Indradeo Pratap Bharti

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EDUCATIONAL QUALIFICATIONS

- Ph.D, Power Systems, **Motilal Nehru National Institute of Technology Allahabad**, 2024.
- M.Tech, Power Systems, **Indian Institute of Technology (ISM) Dhanbad**, 2016.
- B.Tech, Electrical Engineering, **Gurukul Kangri University, Haridwar**, 2014.

EMPLOYMENT

- Assistant Professor (Contract): (August 2026– Present) – EED, HBTU, Kanpur
- Assistant Professor (GF): (November 2025– May) – EED, FOET, DSMNRU, Lucknow
- Assistant Professor (GF), EED, University of Lucknow, (September 2024– May 2025)
- Site Engineer, Rail Vikas Nigam Limited, Navratna (PSU), (January 2019 – June 2019)
- Assistant Professor, EED, RRIMT Lucknow, (September 2017– December 2018).
- Graduate Engineer Trainee, Anchor Electricals Pvt. Ltd., Haridwar, July 2016 – July 2017.

RESEARCH EXPERTISE/ INTEREST

- Power system analysis and control, microgrid operation, microgrid protection, and islanding detection for the grid-connected converter and synchronous generator-based active distribution networks.

SKILLS

- **Simulation Software:** MATLAB–SIMULINK, PSCAD, Power Factory, PLC and Python Programming.
- **Hardware:** OPAL–RT, Real–Time Simulator, Typhoon HILL.
- **Document:** MS, PowerPoint, Visio.

PUBLICATIONS

• Journals

1. **Indradeo Pratap Bharti**, Navneet Kumar Singh, Om Hari Gupta & Asheesh Kumar Singh, “New Passive Loss of Mains Detection Scheme Using Characteristics of Differential Impedance of Series Inductor,” IETE Journal of Research, 17 October 2023, doi: 10.1080/03772063.2023.2265884. (IF 1.5) SCI
2. **Indradeo Pratap Bharti**, Navneet Kumar Singh, Om Hari Gupta & Asheesh Kumar Singh, “A Novel Passive Technique Based on Superimposed Negative Sequence Impedance to Detect Islanding in AC Microgrids,” Electric Power Components and Systems, 14 November 2023, doi:10.1080/15325008.2023.2286343. (IF 1.9) SCI
3. **Indradeo Pratap Bharti**, Navneet Kumar Singh, Om Hari Gupta, and Asheesh Kumar Singh, “Unplanned Islanding Detection of Renewable Energy Sources Using Sequence Impedance with Zero NDZ.” Electrical Engineering, 11 January 2024, doi: org/10.1007/s00202-023-02176-9. (IF 2.7) SCI
4. **Indradeo Pratap Bharti**, Navneet Kumar Singh, Om Hari Gupta, and Asheesh Kumar Singh, “A Comparative Review of Various Islanding Detection Schemes for Converter and Synchronous Generator–Based Microgrids,” International Journal of Green Energy, 2024, doi: 10.1080/15435075.2024.2409943. (IF 3.1) SCI
5. **Indradeo Pratap Bharti**, Om Hari Gupta, Navneet Kumar Singh, Asheesh Kumar Singh “A Wavelet Transform–Based Islanding Detection Algorithm for Active Distribution System”, Journal of Electrical Engineering & Technology. (IF 2) SCI
6. **Indradeo Pratap Bharti**, Navneet Kumar Singh, Om Hari Gupta, Asheesh Kumar Singh and Vijay K. Sood, “Unintentional Islanding Detecting in AC Microgrid Using Superimposed Sequence Impedance,”

Distributed Generation & Alternative Energy Journal, July 2024, doi.org/10.13052/dgaej2156-3306.3938. (IF 1) Scopus

7. Biplab Bhattacharyya, Shweta Rani, Ram Ishwar Vais, and **Indradeo Pratap Bharti**, "GA-based optimal planning of VAR sources using Fast Voltage Stability Index method," Archives of Electrical Engineering, 2016, doi: 10.1515/aee-2016-0055. (IF 1.2) ESCI

• Conference

1. **Indradeo Pratap Bharti**, Navneet Kumar Singh, Om Hari Gupta, and Asheesh Kumar Singh, "Developments in Islanding Detection and Its Comparison: A Comprehensive Review," 8th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-13 November 2021), India.
2. **Indradeo Pratap Bharti**, Prince Kumar, Navneet Kumar Singh, Om Hari Gupta, Niraj Kumar Choudhary, and Asheesh Kumar Singh, "A Passive Technique for Detecting Islanding Using Voltage Sequence Component," 9th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2-4 December 2022), India.
3. **Indradeo Pratap Bharti**, Navneet Kumar Singh, Om Hari Gupta, and Asheesh Kumar Singh, "A Passive Islanding Detection Technique for Alternator by Analyzing the Deviation in the Rate of Change of Frequency," 2nd International Symposium on Sustainable Energy and Technological Advancements (ISSETA 24-25 February 2022), India.
4. **Indradeo Pratap Bharti**, Divakar Verma, Navneet Kumar Singh, Om Hari Gupta, and Asheesh Kumar Singh, "Detection of Islanding in Distributed Network in the Presence of DG Using Superimposed Positive Sequence Angle," 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2-4 December 2023), India.
5. **Indradeo Pratap Bharti**, Navneet Kumar Singh, Om Hari Gupta, and Asheesh Kumar Singh, "Sequence Angle-Based Passive Algorithm for Islanding Detection of the Distribution System," 3rd International Symposium on Sustainable Energy and Technological Advancements (ISSETA 23-24, February 2024), India.

✳ Faculty Development Program / Workshops

- "Artificial Intelligence" Organized by the Department of Computer Science, MNNIT Allahabad, under the AICTE Training and Learning Program, 10-14 December 2019.
- "Advanced Control Strategies: Design and Application" Organized by Rajkiya Engineering College Sonbhadra, under Faculty Development Programme, 28th June- July 2nd, 2021
- "National Intellectual Property Awareness Mission" Organized by Intellectual Property Office, Government of India, Ministry of Commerce and Industry, 10 August 2023.
- "Lab-Market 1.0 Recent Trends in Engineering" Organized by the IEEE Student Branch and EED Poornima College of Engineering, Jaipur, 09-13 Dec 2023.
- "Grid Integration of Renewable Energy" Organized by the National Institute of Wind Energy, Chennai, with the support of the Ministry of New and Renewable Energy, Government of India, 12 April 2023.
- Faculty Development Program on "Resilient Integrated Systems with Energy Produced by Optimized Widespread Energy Renewables" organized by the Electronics and ICT Academy, NIT Patna (18-May-2026 to 26-May-2026).
- One Week International Faculty Development Program on "Technovations in Smart Grid and Smart Cities", SR University Warangal, Telangana, India, 07/04/2025 to 11/04/2025.
- One Week International Faculty Development Program (FDP) on "AI Applications in Electrical Engineering (IFAAEE-2026)", Madan Mohan Malaviya University of Technology, Gorakhpur, 27 April to 1 May 2026.
- Online Workshop on "Digital Transformation in Modern Power Systems: Application of AI in Intelligent Power Systems", National Institute of Technology Sikkim, 05th May to 09th May 2026.

✳ VOLUNTEER SERVICES

- **Reviewer:** IEEE Transactions on Industrial Informatics, Journal of Electrical Engineering & Technology, Journal of Radiation Research and Applied Sciences, Engineering Applications of Artificial Intelligence, International Conferences such as The IEEE KPEC, TPEC.

- **Member of the conference organizing committee:** EPREC-2024 @ NIT Jamshedpur, Technical Session Chair, NCRAET, REC Sonbhadra.



Awards / Achievements

- Qualified GATE exam in EE (AIR 486) in March 2018 and IN (AIR - 1806), 2024.

Date:

INDRADEO PRATAP BHARTI