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OBJECTIVE

To use my research skills and knowledge from my doctoral studies to help an industry organization grow and bridge the gap between research and practical applications. I aim to solve complex challenges by collaborating with teams and using data-driven approaches.

PROFESSIONAL EXPERIENCE

- Started working as a consultant from September 2024 to the present date.
- Pursuing Ph.D. in Electrical Engineering on the topic, "Design of Optimal Layout and Cost-Effective Installation of Underground Cable System".
- Worked as 'Assistant Professor' at Rajarambapu Institute of Technology, Rajaramnagar, Islampur, from 1st July 2014 to 31st August 2021.
- Administrative Responsibilities handled: Training and Placement, and Alumni relations.
- Life Member of the Indian Society for Technical Education
- Worked as "Trainee Engineer" in Bajaj Electricals, Pune from Jul.2011 to December 2011.

EDUCATION

Year	Degree/Qualification	Institute / University	Performance
2021-till date	Pursuing PhD	National Institute of Technology, Silchar	10/10 (CGPA)
2012-2014	M. Tech. in Electrical Power Systems	Rajarambapu Institute of Technology, Islampur	8.12 / 10 (CGPA)
2007-2011	B. Tech. in Electrical Engineering	Walchand College of Engineering, Sangli	6.94 / 10 (CGPA)
2006-2007	H. S. C	Maharashtra State Board, Kolhapur Division	74.33 %
2004-2005	S. S. C	Maharashtra State Board, Kolhapur Division	79.09 %

PUBLICATIONS

- Singha Roy S., Chatterjee S., Roy S., Bamane P. D., Paramane A., Rao U.M., Tariq Nazir M, "Accurate Detection of Bearing Faults Using Difference Visibility Graph and Bi-directional Long Short-term Memory Network Classifier", IEEE Transactions on Industry Applications, vol. 58, issue 4, pages. 4542- 4551, 2022.

- A. R. Thorat, Iranna Korachgaon, P. D. Bamane, “Application of an Improved GABC Algorithm for Optimal Power Flow Problem Incorporating Renewable Energy Sources”, Journal of The Institution of Engineers (India): Series B, vol. 102, pages 179-191, 2021.
- Jadhav H.T., Bamane P.D., “Assessing the impact of an online training program on research performance of students and faculty members” Journal of Engineering Education Transformations, vol. 34, pages 312-318, 2021.
- Awati J.S., Mulla A.M., Desai S.S., Bamane P., Karanjkar S., “Startup entrepreneur support for design and development of problem statement to product finalization: A case study”, Journal of Engineering Education Transformation, vol. 33, pages 260-264, 2020.
- Bamane P.D., “Application of Crow Search Algorithm to Solve Real Time Optimal Power Flow Problem”, 8th International Conference on Computation of Power, Energy, Information and Communication, ICCPEIC 2019, Pages 123-129, 2019.
- Nikhil V. Patil, Rohan S. Kanase, Dnyaneshwar R. Bondar, P. D. Bamane, “Intelligent energy meter with advanced billing system and electricity theft detection” International Conference on Data Management, Analytics and Innovation, ICDMAI 2017, Pages 36-41, 2017.
- Mukund B. Maskar, A.R.Thorat, P.D.Bamane, and Dr. Iranna Korachgaon, “Optimal Power Flow Incorporating Thermal and Wind Power Plant”, IEEE Sponsored 2017 International Conference on Circuits, Power and Computing Technologies [ICCPCT], 2017.
- H. T. Jadhav and P. D. Bamane, “Temperature Dependent Optimal Power Flow using g-best Guided Artificial Bee Colony Algorithm” International Journal of Electrical Power & Energy Systems, 77:77-90, 2016.
- V. Pundapal, A. R. Thorat and P. D. Bamane, “An Evolutionary Approach to Solve Reactive Power Optimization Problem by Modified Artificial Bee Colony Algorithm” International Journal of Applied Engineering Research, 10(20):16127-16132,2015.
- U.R. Mane, A. R. Thorat, and P. D. Bamane, “MABC Algorithm for Optimal Power Flow considering the Cost and Voltage Stability Index” International Journal of Applied Engineering Research, 10(20):16533-16538, 2015
- V. Pundapal, A. R. Thorat and P. D. Bamane, “An Evolutionary Approach to Solve Reactive Power Optimization Problem by Modified Artificial Bee Colony Algorithm”, IEEE sponsored 2nd International Conference on Innovations in Information Embedded and Communication Systems, 2015.
- U.R. Mane, A. R. Thorat, and P. D. Bamane, “MABC Algorithm for Optimal Power Flow considering the Cost and Voltage Stability Index,” IEEE sponsored 2nd International Conference on Innovations in Information Embedded and Communication Systems, 2015.
- P D Bamane, A. N. Kshirsagar, Shubham Raj and HT Jadhav, “Temperature Dependent Optimal Power Flow using gbest-Guided Artificial Bee Colony Algorithm” IEEE International Conference on Computation of Power, Energy, Information and communication (ICCPEIC), 321-327, 2014.

TECHNICAL STRENGTHS

- Software used: COMSOL, MATLAB, ETAP, Ansys Maxwell

ACHIEVEMENTS

- MHRD scholarship for Ph.D. (From Sep. 2021- August 2024)
- MHRD scholarship for PG (From July 2012- June 2014)
- Maharashtra Talent Search, District Rank 7.
- Played at State-level competitions in football.

ACADEMIC PROJECT

- **Ph. D. Research Work:**
  Design of Optimal Layout and Cost-Effective Installation of Underground Cable System: This research work presents a mathematical formulation of optimization problems to achieve maximum ampacity, minimum installation cost, and optimal layout of an underground cable system using actual 132 kV cable and backfill installation data provided by Riyadh Cables. This research also aims to propose a solution approach for solving the various practically applicable optimization problems of underground cable systems. It also examines the impact of design parameters on the optimal solution of the problem, providing guidelines for the cost-effective installation of underground cable systems to achieve maximum ampacity and optimize layout.

- **M. TECH. Project :**
  Optimal Power Flow of Power Systems with HVDC-Connected Offshore Wind Power Generation: This research work presents an optimal power flow formulation to minimize the overall cost of power generation from various sources, including thermal power plants and offshore wind farms. A temperature-dependent optimal power flow formulation is presented to reduce the overall generation cost. This research work also aims to propose a solution approach to solve the defined optimization problem.

- **B. TECH. Project:**
  Hardware Implementation of Wireless Electrical Fault Informal Circuit

INTERESTS AND HOBBIES

- Playing games

I hereby declare that the above-written particulars are accurate to the best of my knowledge.
Date:
Place:

(Mr. PradipDnyanu Bamane)