Pabitra Kumar Guchhait

PURPOSE STATEMENT

Working with an organization providing continuous learning and growth opportunities, where I can explore my talents, hone my skills and obtain professional edge for the mutual benefit and growth of the organization and myself.

PERSONAL SKILLS AND QUALITIES

- A young jubilant individual, open for learning always, having a strong sense of responsibility and power of reasoning.
- New ideas and challenges are always welcome. Energetic, organized and dedication for work along with flexible attitude and ability to get on well in a team with members of different temperament.

ACADEMIC QUALIFICATION

- **Ph.D in Electrical Engineering**
  Year of Passing: 2021
  Name of Institute & University: National Institute of Technology, Arunachal Pradesh
  Topic: Modeling of renewable energy integrated hybrid power system and study its performance using Soft Computing Techniques and FACTS Devices.

- **M. Tech in Electrical Engineering**
  CGPA: 8 out of 10
  Year of Passing: 2016
  Name of Institute & University: University of Calcutta, West Bengal

- **B. Tech in Electrical Engineering**
  CGPA: 7.7 out of 10
  Year of Passing: 2014
  Name of Institute & University: University of Calcutta, West Bengal

- **B. Sc (H) in Physics**
  Percentage: 60.38%
  Year of Passing: 2011
  Name of Institute: Ramakrishna Mission Vivekananda Centenary College, Rahara
  Name of University: West Bengal State University

- **Higher Secondary (10+2)**
  Percentage: 76.2%
  Year of Passing: 2008
  Name of Institute: Jalchak Nateswari Netaji Vidyayatan
  Board: West Bengal Council of Higher Secondary Education

- **Secondary (10)**
  Percentage: 84.5%
  Year of Passing: 2006
  Name of Institute: Ujan Haripada High School
  Board: West Bengal Board of Secondary Education

EXPERIENCE IN TEACHING

- Served as **Assistant Professor** at **Bengal College of Engineering and Technology, Durgapur** in EE & EEE department.
- Serving as **Assistant Professor** at **G. H. Raisoni College of Engineering and Management, Pune** in EE department.

SOME OF THE SELECTED PUBLICATIONS

2022

1. **"**Reactive Power Control of Renewable Integrated Hybrid Energy System Model using STATCOM and Soft Computing Techniques". *Journal of King Saud University-Engineering Sciences (Elsevier).*

2021

2. "Application of Posicast controller with SVC in wind-diesel hybrid power system model". *SN Applied Sciences*, *3*(4), 1-16.
3. "Stability Improvement of Renewable Source Integrated Hybrid System Using SVC Controller and ALO Technique". In *Advances in Thermofluids and Renewable Energy* (pp. 697-706). Springer, Singapore.

4. "Real-time Mitigation of Effects of False Data in Smart Grid: A Data Diode Approach". In 2021 IEEE 9th Region 10 Humanitarian Technology Conference (**R10-HTC**) from 30th September to 02nd October. IEEE
5. "Deep Learning based Real-Time Detection of False Data Injection Attacks in Power Grids". In 2021 22nd International Middle East Power Systems Conference (**MEPCON**) organized by **Assiut University** in Egypt (**14-16 December 2021)**. (pp. 124-130). IEEE
6. "Backstepping Boundary Control for first-order Hyperbolic PDEs on Inverted Pendulum Stabilization with Constant Input Delay". In 2021 IEEE 8th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2021), (pp. 1-5).
7. "A Novel Deep Learning Framework to Identify False Data Injection Attack in Power Sector". In TENCON 2021-2021 IEEE Region 10 Conference (**TENCON**) organized at **Auckland, New Zealand**, 7-10 December 2021. (pp. 278-283). IEEE

2020

8. "Comparative study using soft computing techniques for the reactive power compensation of a hybrid power system model". *Ain Shams Engineering Journal*, *11*(1), 87-98.
9. "Stability enhancement of wind energy integrated hybrid system with the help of static synchronous compensator and symbiosis organisms search algorithm". *Protection and Control of Modern Power Systems*, *5*, 1-13.
10. "PIC Controller Based SVPWM Technique for Induction Motor Variable Speed Drive". In *Electronic Systems and Intelligent Computing* (pp. 541-553). Springer, Singapore.
11. "Simulation and Analysis of Hybrid PEMFC and Solar PV Cell Model for Commercial Load Profile System". In *Electronic Systems and Intelligent Computing* (pp. 595-606). Springer, Singapore.
12. "Application of Machine Learning for Speed and Torque Prediction of PMS Motor in Electric Vehicles". In *2020 IEEE 1st International Conference for Convergence in Engineering (ICCE)* (pp. 129-133). IEEE.
13. **"**Machine Learning based Solar Power Generation Forecasting with and without MPPT Controller". In *2020 IEEE 1st International Conference for Convergence in Engineering (ICCE)* (pp. 44-48). IEEE.

14. **"**Numerical Approach for Finding the Solution of Single Term Nonlinear Fractional Differential Equation". In *2020 IEEE 1st International Conference for Convergence in Engineering (ICCE)* (pp. 260-263). IEEE.

2019

15. "Seeker optimized SVC-PID controller for reactive power control of an isolated hybrid power system". *Energy Systems*, *10*(4), 985-1015.
16. "A comprehensive review of condition based prognostic maintenance (CBPM) for induction motor". *IEEE Access*, *7*, 90690-90704.
17. **"**Transient Voltage Analysis of a Hybrid Power System Model by Using Novel Symbiosis Organism Search Algorithm". In *Advances in Computer, Communication and Control* (pp. 1-11). Springer, Singapore. **ISBN 978-981-13-3122-0.** ISSN 2367-3389.

2018

18. "Application of Soft Computing Technique in Reactive Power Optimization of a Hybrid Power System Model". *2018 International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), Tamilnadu*. IEEE. 28-29 January, 2018.

Communicated to International Journals

1. **"**STATCOM-PID controlled reactive power control of a hybrid power system". *Communicated in a reputed Taylor and Francis Journal*.

SELECTED PARTICIPATION IN WORKSHOPS/SEMINARS/ FDP/ CONFERENCES

1. One day National Seminar on "SMART Metering" organized by Department of Applied Physics, University of Calcutta in association with TEQIP Phase-II, UCT-CU Kolkata and IET-UK Kolkata Local Network on February 23, 2013.
2. 5 days TEQIP-III workshop on "Recent Trends in Machine Learning, Big Data, and IOT", at National Institute of Technology, Arunachal Pradesh organized by the department of Computer Science & Engineering from 13th November- 17th November, 2017.

3. Participated and presented a paper in "International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing" organized by Priyadarshini Engineering College, Vellore on 28th January-29th January, 2018.
4. 5 days workshop (Organized & Participated) catalyzed by TEQIP-III , Typhoon HIL and IEEE DEIS Kolkata Chapter on "Advance Renewable Energy and its Implications on Electrical Insulation", at National Institute of Technology, Arunachal Pradesh organized by the department of Electrical Engineering from 19th February- 23rd February, 2018.
5. 5 days TEQIP-III workshop (Organized & Participated) on "Soft Computing Techniques Applied in Distributed Generation", at National Institute of Technology, Arunachal Pradesh organized by the department of Electrical Engineering from 12th March- 16th March, 2018.
6. 5 days TEQIP-III workshop on "Recent Trends in Computing & Computer Networking", at National Institute of Technology, Arunachal Pradesh organized by the department of Computer Science & Engineering from 3rd- 7th September, 2018.
7. **Participated and presented a paper in** "International Conference on Emerging Trends in Engineering, Science and Technology" organized by ASAR at Guwahati on 10th May, 2019.
8. **Participated and presented 2 (two) papers** in National Seminar on "Scope and Opportunity of Small Hydro & Wind Power in North Eastern Region of India" organized by National Institute of Technology, Mizoram on 02nd -03rd August, 2019.
9. 5 days TEQIP-III workshop on "Recent Trends in High Voltage and Power System Engineering", at National Institute of Technology, Arunachal Pradesh organized by the department of Electrical Engineering from 26th -30th August, 2019.
10. 5 days TEQIP-III workshop on "Distributed Generation in Power System Engineering", at National Institute of Technology, Arunachal Pradesh organized by the department of Electrical Engineering from 21st -25th October, 2019.
11. One day workshop on "Livelihoods and Development", at National Institute of Technology, Arunachal Pradesh organized by the department of Electrical Engineering in collaboration with Gandhi Smriti and Darshan Samiti, New Delhi, on 21st May, 2019.
12. 5 days TEQIP-III workshop on "Renewable Energy as Future Energy", at National Institute of Technology, Arunachal Pradesh organized by the department of Electrical Engineering from 14th -18th October, 2019.

EXTRA CURRICULAM ACTIVITY

- During Ph.D, served as Teaching Assistant (TA) at NIT, Arunachal Pradesh from January 2019 to June 2019. Handled Soft Computing Techniques Lab and also conducting theory classes.

ACADEMIC ACTIVITIES

- Courses taught – i) Basic Electrical Engineering ii) Electromagnetic Field Theory iii) Electrical Machine Design iv) Energy Management and Audit v) Basic Power System Analysis vi) Fundamentals of Electric Vehicles
- Prepared new Course Curriculum for the EE & EEE department of **Bengal College of Engineering and Technology.**

PERSONAL VITAE

- **Name** : Pabitra Kumar Guchhait
- **Date of Birth** : 30th April, 1991
- **Gender** : Male
- **Marital Status** : Married
- **State of Domicile** : West Bengal
- **Strength** : Optimistic, Hardworking, Dynamic
- **Languages Known** : Bengali, English and Hindi

CONTACT DETAILS

- **Mobile Number** : +91-7085918244 // +91-9830949208
- **E-mail Id** : pabitraguchhait@gmail.com

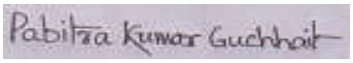
ADDRESS DETAILS

- **Permanent Address** : S/O- Rabindranath Guchhait
  Vill+PO-Balpai, PS-Sabang, Dist.-Paschim Medinipur
  Pin-721155, West Bengal

DECLARATION

I do here by declare that all the above details furnished are true, correct and complete to the best of my knowledge and belief.

Date: 12.04.2022



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