

SUBHASIS PANDA

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PERSONAL STATEMENT

Working with a reputed institution as a faculty will provide me with an excellent platform to utilize my teaching, research & administration skills. It will help me to grow my career, and encourage, and inspire students to achieve their highest potential through a solid and well-rounded education.

FIELD OF RESEARCH INTEREST

- Artificial Intelligence and blockchain applications to the smart grid.
- Distributed Generations applications to Virtual Power Plant.
- Demand-side Management in smart grid.
- Energy Efficiency/Improvements in conventional Energy Systems

SUBJECT TAKEN

Multidisciplinary	Core	Software
<ul style="list-style-type: none">▪ Introduction to Artificial Intelligence▪ Research Methodology▪ Soft Computing▪ Basic Electrical Engineering▪ Basic Electrical & Electronics Engineering▪ Renewable Power Generation System	<ul style="list-style-type: none">▪ Smart Grid▪ Electrical Energy Conservations and Audit▪ Power System▪ FACTS▪ Network Theory▪ RPGS▪ EPTD▪ BEE	<ul style="list-style-type: none">▪ Software Project Management▪ Software Engineering

ACHIEVEMENT

- **UPSC 2021 (Civil Service) mains** qualified and appeared for the interview.
- **OPSC 2018 (Civil Service) and OPSC AEE mains** qualified and appeared for the interview.
- **GATE qualified in the year 2015.**
- Achieved **Best President Award** for 2020-21 in Rotary International.
- Awarded for giving effective ideas and proposals for **the BMC Smart City Project on “De-Centralized Solid Waste Management”.**
- Achieved **Gold Medal** in M.Tech. University exam Completion.
- **Best paper award** for the paper **“Demand Side Management by PV Integration to Micro-grid Power Distribution System: A Review and Case Study Analysis.”**

EXPERIENCE:

Area	Total	Organizations	Job Roles	Responsibilities Handled	Experience
Industry	2.5 Years	Tata Consultancy, Guwahati, Assam	Software Developer	Software design	1 year (2015-2016)
		GEDCOL, Odisha	Project Assistant	4 MW Solar Rooftop installation in Govt. building	6 months (2017-18)
		Caperzy India Pvt. Limited	Project Engineer (R&D)	Product development	1 Year
Academic	3.5 Years	STAR, Taraboi Khurda	Assistant Professor	Teaching, Examination Cell, Start-up & Innovation Cell.	1 year (2018-2019)
		GIET, Baniatangi	Assistant Professor	Teaching, Start-up & Innovation Cell, Robotics Club	1 year (2022-2023)
		GEC Autonomous College, Bhubaneswar	Assistant Professor	Teaching, Research, and Development	1 year (2023-till date)
Research	1 Years	Smart Grid and EV Lab, SoA , Deemed to be university.	Research Assistant	EV charging infrastructure.	1 year

EDUCATIONAL QUALIFICATION

Degree	Board/University	Institute	Year	Achievement
Ph.D.	SoA, University, Odisha	Institute of Technical Education and Research, Bhubaneswar	2024	8.75 CGPA
Mtech.	BPUT, Odisha	CET, Bhubaneswar	2018	8.69 CGPA (Gold Medal)
Btech.	BPUT, Odisha	Govt. College of Engineering, Keonjhar	2015	7.15 CGPA
12 th	CHSE, Odisha	Bhadrak Jr. College, Bhadrak	2010	74.8%
10 th	BSE, Odisha	MMSSVM, Bhadrak	2008	89.6%

BOOK PUBLISHED:

- Green Horizons: Exploring Renewable Energy Technologies, AGPH Publication House, **ISBN: 978-81-970707-3-0**, 2024

PATENT FILED:

- Applied for Green Energy Optimizer, 2024

CONFERENCE:

1. Santanu Ku Parida, **Subhasis Panda** and Debasish Mishra “*A Study on Advanced Applications of Solar Photovoltaic System*” a review in Renewable Energy Generation and its Challenges, 2017. **National**
2. **Subhasis Panda**, Divya Das, and Twinkle Kisku “*Waste to Energy Potential in Bhubaneswar- A Future Aspect*”- a conference paper published by Institute of Engineers, Bhubaneswar,2017. **National**
3. Nitish Ku Sahoo and **Subhasis Panda** “*Micro Generator Based Wind Turbine*”- a conference paper published renewable Energy Generation and its Challenges, 2017 by Institute of Engineers, Bhubaneswar. **National**
4. **Panda, S.**, Rout, P. K., & Sahu, B. K. (2021, January). Residential Sector Demand Side Management: A Review. In *2021 1st Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON)* (pp. 1-6). **IEEE.International**
5. **Panda, S.**, Rout, P. K., & Sahu, B. K. (2021). Demand Side Management by PV Integration to Micro-grid Power Distribution System: A Review and Case Study Analysis. *Green Technology for Smart City and Society*, 417-432. Spinjer **International**
6. Mohanty, **S.**, **Panda, S.**, Rout, P. K., & Sahu, B. K. (2021). A Genetic Algorithm-based Demand Side Management Program for Implementation of Virtual Power Plant Integrating Distributed Energy Resources. 2021 December **International**
7. Kaur, C., Panda, T., **Panda, S.**, Al Ansari, A. R. M., Nivetha, M., & Bala, B. K. (2023, February). Utilizing the Random Forest Algorithm to Enhance Alzheimer’s disease Diagnosis. In *2023 Third International Conference on Artificial Intelligence and Smart Energy (ICAIS)* (pp. 1662-1667). **IEEE.International**
8. I. S. Samant, S. Panda and P. K. Rout, "Recent Advancements on Cyber Security for Smart-Grids: A Survey," 2023 International Conference in Advances in Power, Signal, and Information Technology (APSIT), Bhubaneswar, India, 2023, pp. 572-577, doi: 10.1109/APSIT58554.2023.10201710. **IEEE,International**
9. S. Joshi, I. S. Samanta, S. Panda, P. K. Rout and K. Swain, "Breast Cancer Detection Using Variational Mode Decomposition (VMD) and Weighted Bidirectional Extreme Learning Machine," 2023 International Conference in Advances in Power, Signal, and Information Technology (APSIT), Bhubaneswar, India, 2023, pp. 369-372, doi: 10.1109/APSIT58554.2023.10201695. **IEEE, International**
10. S. S. Biswal, D. R. Swain, C. Biswal, S. Panda and P. K. Rout, "Modeling a Hybrid Multi-Terminal VSC-HVDC Transmission System using FSMC," 2022 2nd Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON), Bhubaneswar, India, 2022, pp. 1-6, doi: 10.1109/ODICON54453.2022.10010129. **IEEE, International**

JOURNAL

1. **Subhasis Panda**, Divya Das, and Twinkle Kisku “A Survey on Waste to Energy Potential in Odisha”- published in **IJRSET**, Vol. 6, Issue 8, August 2017, DOI:10.15680/IJRSET.2016.0608069.
2. **Subhasis Panda**, Divya Das, “A Simulation paper on Solar-Diesel Hybrid Energy System”, published in **IJRAR**, October issue, DOI: <http://doi.one/10.1729Journal.18448>.
3. **Panda, S.**, Mohanty S, Rout, P. K., & Sahu, B. K. A Conceptual Review on Transformation of Micro-grid to Virtual Power Plant: Issues, Modelling, Solutions, and Future Prospects, **International Journal of Energy Research**, Scopus, SCI, IF 5.164, Published 2022. Scopus, SCI
4. **Panda, S.**, Mohanty, S., Rout, P. K., Sahu, B. K., Bajaj, M., Zawbaa, H. M., & Kamel, S. (2022). Residential Demand Side Management model, optimization and future perspective: A review. **Energy Reports**, 8, 3727-3766. Elsevier, IF. 5.2, Published 2022. Scopus, SCI
5. **Panda, S.**, Mohanty, S., Rout, P. K., Sahu, B. K., Parida, S. M., Kotb, H., ... & Shouran, M. (2022). An Insight into the Integration of Distributed Energy Resources and Energy Storage Systems with Smart Distribution Networks Using Demand-Side Management. *Applied Sciences*, IF. 3.7, Published 12(17), 8914. Scopus, SCI
6. Mohanty, S., **Panda, S.**, Parida, S. M., Rout, P. K., Sahu, B. K., Bajaj, M., Zawbaa, H. M., Kumar, N. M., & Kamel, S. (2022). Demand side management of electric vehicles in smart grids: A survey on strategies, challenges, modelling, modeling, and optimization. *Energy Reports*, 8, 12466-12490. <https://doi.org/10.1016/j.egy.2022.09.023>, IF. 5.2, Scopus, SCI
7. Samanta, I. S., **Panda, S.**, Rout, P. K., Bajaj, M., Piecha, M., Blazek, V., & Prokop, L. (2023). A Comprehensive Review of Deep-Learning Applications to Power Quality Analysis. *Energies*, 16(11), 4406. IF. 3.6, Scopus, SCI
8. Panda, S., Mohanty, S., Rout, P. K., Sahu, B. K., Parida, S. M., Samanta, I. S., ... & Prokop, L. (2023). A comprehensive review on demand side management and market design for renewable energy support and integration. *Energy Reports*, 10, 2228-2250. IF. 5.2, Scopus, SCI.
9. **Panda, S.**, Samanta, I. S., Rout, P. K., Sahu, B. K., Bajaj, M., Blazek, V., ... & Misak, S. (2024). Priority-based scheduling in residential energy management systems integrated with renewable sources using adaptive salp swarm algorithm. *Results in Engineering*, 23, 102643. IF. 6.0, Scopus, SCI.
10. Samanta, I. S., **Panda, S.**, Rout, P. K., Swain, K., Cherukuri, M., Panda, S., Bajaj, M., ... & Misak, S. (2024). A hybrid approach for power quality event identification in power systems: Elasticnet Regression decomposition and optimized probabilistic neural networks. *Heliyon*, 10(18). IF. 3.7, Scopus, SCI.

FACULTY DEVELOPMENT PROGRAM

- One Week Unique Hands-On International Online FDP On “Control Systems Design - From A Beginner To An Expert - 1.0” by Department of Electrical & Electronics Engineering of **GMR Institute of Technology**, Rajam.
- One Week National Workshop on "RECENT DEVELOPMENTS IN SMART GRID TECHNOLOGIES (NWsGT-2023)" organized by the School of **Electrical Sciences, Indian Institute of Technology Bhubaneswar**.
- One Week National Workshop on "RECENT DEVELOPMENTS IN SMART GRID TECHNOLOGIES (NWsGT-2021)" organized by the **School of Electrical Sciences, Indian Institute of Technology Bhubaneswar**.
- Six-Day Short Term Training Programme (STTP) on “Smart Grid and Big Data Analysis”, sponsored by AICTE & organized by the **Department of Electrical & Electronics Engineering, IPS Academy, Institute of Engineering & Science, Indore**.

- Four-day Faculty Development Program (FDP) on “RECENT TRENDS AND RESEARCH PROSPECTIVE ON ELECTRICAL DRIVES, POWER ELECTRONICS, AND POWER SYSTEM” by the **Department of Electrical & Electronics Engineering, New Horizon College of Engineering, Bengaluru, Karnataka.**

CERTIFICATION

- Certified for completing the “**Design of Photovoltaic System**” course from NPTEL(**IISc Bangalore**).
- Certified for completing the “**Educational Leadership**” course from NPTEL (**IIT Kharagpur**).
- Certified for completion of the **Internet of Things** course from CTTC, Bhubaneswar.
- Certified **Career Counselor** from **iDream Career**.

PERSONAL DETAILS

- Father’s Name: Mr. Rabi Narayan Panda
- Marital Status: Married
- Address: Kamala Nibas, Sahadev Khunta, Balasore, Odisha, Pin:- 756001
- Languages Known: English, Odia, Hindi
- Hobbies: Social Work, Watching Documentary, Traveling, Painting, and Writing

DECLARATION

“No man is perfect in this world- people say, but I will still discharge my duties with perfection and work for the fulfillment and upliftment of the institute/concern I join.” With this declaration, all the information I provided is true and correct.

Place: Bhubaneswar

Date: 17/04/2023

Subhasis Panda.

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