


Research work Details:

 <p>NAME: Dr.Deepa B</p>	<p>Assistant Professor EEE Department Rao Bahadur .Mahabaleshwarappa Engineering College Cantonment, Ballari-583 104, Karnataka Mob:8884703031, deep.vc004@gmail.com</p>
<p>Title of the Thesis:</p>	<p>Micro-Phasor Measurement Unit (μpmu) Based Synchrophasor Technology for Situational Awareness in Smart Distribution Network</p>
<p>Research center</p>	<p>REVA University, Bengaluru</p>
<p>University</p>	<p>REVA University</p>
<p>USN:</p>	<p>R20PEE01</p>
<p>Year of Award:</p>	<p>2024-25</p>
<p>Research Guide:</p>	<p>Dr.Santoshkumar Hampannavar, M.E (Amravati University, Maharashtra), PhD (NITK, Surathkal) Director, BTKIT, Dwarahat, Uttarakhand</p>
<p>Research Center (PhD Pursued):</p>	<p>School of EEE, REVA University</p>
<p>Research Publications</p>	<p>International Journals: 06 Book Chapter: 01 International Conferences: 04, 09-scopus</p>
<p>Google scholar ID</p>	<p>MzSy5-YAAAAJ</p>
<p>Scopus ID</p>	<p>57289671600</p>
<p>Orcid ID Web of Science Researcher ID</p>	<p>0000-0002-0105-7063 KYO-7115-2024</p>
<p>Publication with students (UG)</p>	<p>06</p>
<p>PHD guidance: --</p>	<p>--</p>
<p>Guest Lectures delivered</p>	<p>--</p>
<p>FDP/ Conferences/Seminars/Workshops attended</p>	<p>21</p>
<p>FDP/ Conference/Seminars/Workshops organized</p>	<p>02</p>
<p>Patent</p>	<p>01</p>
<p>Professional Society membership</p>	<p>MISTE: LM124995, MIETE</p>
<p>Grants (Last 5 years data 2019-20 to 2024-2025)</p>	<p>--</p>

Keep Publications in the following format only

Details of the Publications

Journals

1. **Deepa B**, Hampannavar, Santoshkumar, and Swapna Mansani. "Smart Monitoring of Microgrid-Integrated Renewable-Energy-Powered Electric Vehicle Charging Stations Using Synchrophasor Technology." *World Electric Vehicle Journal* 15.10 (2024): 432. <https://doi.org/10.3390/wevj15100432> (**Q2 Journal**).
2. **Deepa, B**, Hampannavar, S. & Mansani, S., "Phasor estimation using micro-phasor measurement unit (μ PMU) in distribution network for situational awareness", *Journal of Electrical Systems and Inf Technol* 11, 52, SPRINGER (2024). <https://doi.org/10.1186/s43067-024-00179-5>.
3. Komanapalli, Vahini, Mansani, Swapna, Hampannavar Santoshkumar, **B Deepa**, "Source Forecasting and Economic/Environmental Assessment of Hybrid Renewable Energy System in North Eastern State of India", *Electrical Engineering*, SPRINGER, 2024 (**SCIE/Q1**).
4. Santoshkumar Hampannavar, Omowunmi Mary Longe, Himabindu N, **Deepa B**, Swapna M, "Reliability modeling and assessment of a community microgrid with electric vehicle charging station as a critical load", *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, Volume 8, 2024, 100610, ISSN 2772-6711. (**Q1 Journal**).

2022

1. Sagar B.S., Santoshkumar Hampannavar, **Deepa B**, Bansilal B., "Applications of Battery Management System (BMS) in Sustainable Transportation: A comprehensive Approach from Battery Modeling to Battery Integration to the Power grid, *World Electric Vehicle Journal* (WEVJ), MDPI, vol.13(5), 2022. (**Q2**).

2021

1. Himabindu N., Santoshkumar Hampannavar, **Deepa B**, Swpana M.,”*Analysis of microgrid integrated Photovoltaic (PV) Powered Electrical Vehicle Charging Stations (EVCS) under different solar irradiation conditions in India: A way towards sustainable development and growth*, Energy Reports, Elsevier, **2021**. (SCIE / Q1 /6.87 IF)

Book Chapters

1. Santoshkumar Hampannavar, Swapna Mansani, **Deepa B**, Udaykumar R.Y., “*Micro Phasor Measurement Unit (μ PMU) in Smart Distribution Network: A Cyber Physical System*”, Algorithms for Intelligent Systems Springer, Singapore, 2022. https://doi.org/10.1007/978-981-16-7136-4_1.

CONFERENCE PROCEEDINGS

2024

1. **Deepa B**, S. Hampannavar and S. Mansani, “*Advancing Sustainability in Power Systems with Microgrid EV Charging & Smart Monitoring*,” 2024 IEEE International Conference on Smart Power Control and Renewable Energy (ICSPCRE), Rourkela, India, 2024, pp. 1-6, doi: 10.1109/ICSPCRE62303.2024.10674818.
2. Hampannavar, S., Himabindu, N., **Deepa B**, Longe, O. M., & Swapna, M. (2021). “*Techno-Economic and Environment Assessment of Micro Grid Integrated Biogas/Photovoltaic (Pv) Powered Electric Vehicle Charging Station (Evcs) in India: A Framework for Sustainable Development*”.2024 International Conference on Sustainable Energy and Environment (ICSEE 2024).

2023

3. Himabindu N., Santoshkumar Hampannavar, **Deepa B**, Omowunmi Mary Longe, Swpana M.,Vahini K., “*Assessment of Microgrid Integrated Biogas-Photovoltaic Powered Electric Vehicle Charging Station (EVCS) for Sustainable Future*”, 2023 8th International Conference on Sustainable and Renewable Energy Engineering (ICSREE 2023) 11–13 May, Nice, France, Energy Reports, Elsevier, **2023**. (SCIE / Q1 /5 IF)

2021

1. Santoshkumar Hampannavar, **Deepa B**, Swapna Mansani, "*Micro Phasor Measurement Unit (μ PMU) Placement for Maximum Observability in Smart Distribution Network*", *IEEE Power Africa (IEEE PAC 2021)*, 23rd - 27th Aug 2021.
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CERTIFICATION

1. **AICTE-QIP-PG Certificate Program in Cyber Security**
Completed a postgraduate-level certification program under the Quality Improvement Programme (QIP) by AICTE, covering advanced topics in Cyber Security.
Duration: July 2024 – December 2024
 2. **Completed NPTEL course on Python for Data Science during July-Aug 2024.**
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Dr. Deepa B