


Faculty Profile

Name	: Dr.R.Sowmya	 Recent Photo			
Date of Birth	: 26.02.1994				
Highest Qualification	: Ph.D				
Date of Joining	: 26.07.2023				
Designation	: Assistant Professor				
Date of promotion (Present Designation)	: NA				
Area of Interest	: Distribution system in power system				
Mobile No	: 9384131377	Email ID	: Sowmya2621994@gmail.com		
Experience	: Teaching : 5	Industry	:	Research	: 5
Address (for Communication)	16/12a, Shakthi mariamman nagar, china chetty street, Woraiyur, Trichy				

Association with Professional Bodies

Name (Professional Body)	IEEE	IEEE	IEEE	
Type of Membership	IEEE industrial electronics society	IEEE faculty member	IEEE young professional member	

Research

Ph. D Guidance					
Supervisor / Guide ship No. :	NA	University :	NA	No. of Scholars :	NA
Publication*					
International Journals	: 5	National Journals	: 1		
International Conference	: 3	National Conference	: 1		
Project Grants (Research projects guided or undertaken/ Sponsored Projects)					
Received (Amount)	: NA	Applied (Amount)	: NA		
Patent					
Published	: 5	Granted	: NA		

Books

Published	NA
:	

FDPs / STTPs / Workshops / Seminars etc.,

FDP		STTP		Workshop		Seminar		Others	
Attended :	8	Attended :		Attended :	4	Attended :	3	Attended :	
Organized :	1	Organized :		Organized :		Organized :	1	Organized :	

List of Publications :*PATENT Publications:**

1. Published a Patent entitled as “Piezoelectric Burglar Alarm for Security Purposes” File No: 202341030571
2. Published a Patent entitled as “Design of Intelligent Dehumidifier for Automotive Application” File No: 202341029343.
3. Published a Patent entitled as “Solar Panel with Efficient Solar Tracker Using IoT” Application” File No: 202341029341.
4. Published a Patent entitled as “Implementation of Noninvasive Glucose Monitoring Technique Using Optical Method for Medical Appliances” File No: 202341029314.

INTERNATIONAL JOURNALS:

1. **Sowmya Ramachandradurai**, Narayanan. K, “Islanding Based Reliability Enhancement and Power Loss Minimization by Network Reconfiguration using PSO with multiple DGs” **Vol. 31, Iss. 9, e12987, 2021.** International Transactions on Electrical Energy Systems. Online ISSN: 2050-7038. DOI:10.1002/2050-7038.12987. (SCI-E) (Impact Factor: 2.86).
2. **S. Ramachandradurai**, N. Krishnan, G. Sharma, and P. N. Bokoro, “Islanding detection with reduced non-detection zones and restoration by reconfiguration,” *Energies*, vol. 16, no. 7, p. 3035, 2023. (Impact Factor: 3.27).
3. **S. Ramachandradurai**, N. Krishnan, and N. Prabaharan, “Unintentional passive islanding detection and prevention method with reduced non-detection zones,” *Energies*, vol. 15, no. 9, 2022, issn: 1996-1073. doi: 10.3390/en15093038. (Impact Factor: 3.27).
4. Isaivani Mariappan, Malathi Veluchamy, **Sowmya Ramachandradurai**, “An Efficient Implementation of Divergence State Estimation with Biogeography-Based Optimization (DSEBBO) Framework in FPGA-Based Multiprocessor System” **Vol. 45, 2020.** Arabian Journal for Science and Engineering. Online ISSN: 6649-6660. DOI: 10.1007/s13369-020-04634-z (SCI-E) (Impact Factor: 2.334).
5. R. Vijay, **Sowmya Ramachandradurai**, “Optimal siting of PV-wind-energy storage system integrated micro grid using artificial bee colony optimization technique” Vol. 5, 2017. International Journal of Innovative Research in Computer and Communication Engineering. Online ISSN: 2320-9801. DOI:10.15680/IJIRCCE.2017. 0505161 (Impact Factor: 7.54).

CONFERENCE PROCEEDINGS**❖ INTERNATIONAL:**

1. **Sowmya. R** and Narayanan. K, “A Novel Islanding Detection Method with Reduced Non-Detection Zones for Different Distributed Generation Units”, published in *2020 International Conference on Smart Grids and Energy Systems (SGES)*, 23-26 November 2020. Pages: 309-313.
2. **Sowmya. R** and Narayanan. K, “An Improved (F&V) Based Passive Islanding Detection Strategy with Reliability Evaluation”, published in *2021 IEEE PES Innovative Smart Grid Technologies Conference - Latin America (ISGT Latin America)*, 15-17 September 2021. Pages: 1-6.
3. Nihith Koundinya SPVS, Vignesh. S, **Sowmya. R**, Girish Ganesan. R and Narayanan. K, “Framework for Computationally Efficient Outage Detection”, published in *2019 IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia)*, 21-24 May 2019.