

## List of Faculty Publications from EEE Department

For the Academic year 2023-24

### International Journals:

1. Karra, J., **Chandrasekhar, K.** ‘Smart Micro-Grid Energy Management with Renewable Energy Sources and Local SCADA’ In: Kyamakya, K., Bokoro, P.N. (eds) Recent Advances in Energy Systems, Power and Related Smart Technologies. Studies in Systems, Decision and Control, **book series** (SSDC, volume 472), pp 123–133, Springer, Cham. [https://doi.org/10.1007/978-3-031-29586-7\\_5](https://doi.org/10.1007/978-3-031-29586-7_5) (**Scopus**)
2. P. Sobha Rani, **K. Radha Rani,** Ravi V Angadi entitled ‘Is it Feasible to Reduce Academic Stress in Net-Zero Energy Buildings? Reaction from ChatGPT’ in Annals of Biomedical Engineering, ISSN:1573-9686, 2023. <https://doi.org/10.1007/s10439-023-03286-y> (**SCIE, Web of Science, Scopus**)
3. P. Sobha Rani, **K. Radha Rani,** A.A.Shah entitled ‘Design and Implementation of Active Clamp Flyback Converter for High-Power Applications’ in Processes, ISSN: 2227-9717 , Vol.11, issue.10,2023, <https://doi.org/10.3390/pr11102980> ((**SCIE, Web of Science, Scopus**)
4. **Sarayu Vunnam,** M. VanithaSri, **RamaKoteswaraRao Alla,** “A Novel Monocrystalline PV Array Configuration for Enhancing the Maximum Power under Partial Shading Conditions”, Clean Energy Journal, Volume 7, Issue 4, August 2023, Pages 783–794, <https://doi.org/10.1093/ce/zkad036> (**Scopus, Web of Science, & ESCI Indexed**).
5. **Sarayu Vunnam,** M. VanithaSri, **RamaKoteswaraRao Alla,** “An Outline of Solar Photovoltaic Systems Impact on Environment”, Bulletin of Electrical Engineering and Informatics (BEEI), Vol 12, No 5, PP. 2635-2642, October 2023, (**Scopus Indexed**). <https://doi.org/10.11591/eei.v12i5.5584>
6. **RamaKoteswaraRao Alla,** Rajani Kandipati, **Ravindranath Tagore Yadlapalli,** “Design of FOPID controller for higher order MIMO systems using model order reduction”, International Journal of Systems Assurance Engineering and Management, Springer, Vol 14, PP. 1660–1670, October 2023, <https://doi.org/10.1007/s13198-023-01971-8> (**Scopus, Web of Science Indexed**).
7. **Ravindranath Tagore Yadlapalli,** Rajani Kandipati, **RamaKoteswara Rao Alla,** “Performance Analysis of a Two-Stage Converter for solar PV Systems”, Journal of Engineering Science and Technology Review, Vol.16, No. 3, PP 52-60, July 2023. <https://doi.org/10.25103/jestr.163.07> (**Scopus Indexed**)

8. **Yadlapalli Ravindranath Tagore**, Kandipati Rajani, **Chandra Sekhar Koritala**,” Analysis, design and simulation of high gain dc-dc converters for fuel cell applications”, Int. J. Power Electronics, Vol. 18, No. 3, 2023, pp. 314-345. <https://doi.org/10.1504/IJPELEC.2023.133064> (Scopus Indexed)
9. **Ravindranath Tagore**, “Fuzzy based MPPT Control for solar PV Applications”, Int. J. Innovative Computing and Applications, Vol.14, No. 4, 2023, pp. 220 - 229. <https://doi.org/10.1504/IJICA.2023.134217> (Scopus Indexed)
10. Chegudi RangaRao, R.Balamurugan, **RamaKoteswaraRao Alla**, “Simultaneous Allocation of Renewable Energy Sources and Custom Power Quality Devices in Electrical Distribution Networks Using Artificial Rabbits Optimization”, Clean Energy, Vol. 7, No. 4, PP. 795–807, August 2023, <https://doi.org/10.1093/ce/zkad019> (Scopus, Web of Science Indexed).
11. K. Vidya Sagar, Surya Prasada Rao Borra, A. Geetha Devi, **Veera Vasantha Rao Battula**, Saline Fluid Flow Supervision in Intensive Care Unit using Precision Algorithm”, Journal of Theoretical and Applied Information Technology, Vol. 101, No. 23, PP.7769-7775, December 2023, ISSN:1817-3195, <https://www.jatit.org/volumes/Vol101No23/22Vol101No23.pdf> (Scopus Indexed)
12. M. Raja Nayak, **K. Chandra Sekhar** “Computation of corona generated ionic current environment of unipolar UHVDC transmission lines using gas bimolecular collision theory”, Electric Power Systems Research, ISSN:0378-7796, January 2024.(SCI/SCIE)
13. Lalitha Kondisetty, **Katragadda Swarnasri** “Hybridization of Improved Northern Goshawk optimization and line loadability index for reconfiguration considering solar electric vehicles”, International journal of Intelligent Engineering & Systems, Vol.17, No.2, Page: 428-438, DOI: 10.22266/ijies2024.0430.352024.(SCOPUS INDEXED)
14. Lalitha Kondisetty, **Katragadda Swarnasri** “A multi-objective artificial hummingbird algorithm for dynamic optimal volt-var controls for high electric vehicle load penetration in a photovoltaic distribution network”, e-Prime - Advances in Electrical Engineering, Electronics and Energy, Vol.7 2024. (SCOPUS INDEXED)
15. Srilakshmi, K., Rao, G.S., **Swarnasri, K** “Optimization of ANFIS controller for solarlar/ battery sources fed UPQC using a hybrid algorithm”, Electr Eng <https://doi.org/10.1007/s00202-023-02185-82024>. (SCOPUS INDEXED)
16. Koganti Srilakshmi, Gummadi Srinivasa Rao, **Katragadda Swarnasri** “Multiobjective Neuro-Fuzzy Controller Design and Selection of Filter Parameters of UPQC Using Predator Prey Firefly and Enhanced Harmony Search Optimization”, International Transactions on Electrical Energy Systems vol. 2024, Article ID 6611240, 21 pages, 2024. <https://doi.org/10.1155/2024/66112402024>. (SCI/SCIE)

17. Rachakonda Raghavendra, **Dr. N.C. Kotaiah, Dr. K. Radha Rani** “Artificial Neural Network based FACTS in a Contingency Situation”, International Journal of Electrical and Electronics Research (IJEER) Vol.12, issue.1, Page:8-11, ISSN:2347-470X February 2024. (**SCOPUS INDEXED**)
18. D. Uma Maheswara Rao, **Dr. G. Sambasiva Rao, Dr. K. Swarnasri** L-M Based ANN for Predicting the Location of DG under Contingency Condition International Journal of Electrical and Electronics Research (IJEER) Volume 11, Issue 4, Page:1204-1208 ISSN: 2347-470X December, 2023.
19. Ankineedu Prasad Padamata, **Dr. G Sambasiva Rao** “Modelling of Variable Speed Wind Turbine Connected DFIG:250KW WSEAS Transactions on Power Systems”, Volume 18, Pages: 426-435, Print ISSN: 1790-5060, E-ISSN: 2224-350X February, 2024
20. D. Vasudha, **Dr. N.C.Kotaiah, Dr. K. Radha Rani** “Development of Static Model for a Current Based UPFC”, International Journal of Electrical and Electronics Research (IJEER), Volume 11, Issue 4, Page:1183-1187 ISSN: 2347-470X November, 2023
21. **N.Chaitanya, G. Veeranjanyulu, B. Sarathchandra,** P.Phani Prashanthi “Leveraging renewable energy sources for sustainable traction vehicles”, Indonesian journal of electrical engineering and computer science, 34,No.1, pp: 40-49 ,2502-4752, April 2024.
22. Swarupa Rani Bondalapati, Baddu Naik Bhukya, **G.V. Prasanna Anjaneyulu,** Manam Ravindra, **B. Sarath Chandra** “Bidirectional Power Flow Between Solar-Integrated Grid To Vehicle, Vehicle To Grid, And Vehicle To Home”, Journal of Applied Science and Engineering, Vol. 27, No 5, Page 2501-2511 2708-9967 August, 2023
23. M. V. Ramesh, **K. Swarnasri,** P. Muthukumar, **Ponnamm Venkata Kishore Babu** “Improved Skill Optimization Algorithm Based Optimal Power Flow Considering Open-Access Trading of Wind Farms and Electric Vehicle Fleets”, The International Journal of Intelligent Engineering and Systems, Vol.17, No.2,2024 pp. 402 -411 2185-3118 April & 2024.
24. S. RAO BORRA, B. MANASA , **B. VASANTHA RAO , M. ANITHA,** S. BOLLA “Real and accurate speech enhancement model For orthogonal-daubechies based multiresolution Analysis”, Journal of the Balkan Tribological Association, Vol. 29, 1310-4772 May 2023.
25. **Veera Vasantha Rao Battula,** Padmavathi Krishnarao “Performance analysis and effect of pandemic condition on utility grid connecte4d PV system”, International Journal of Power Electronics and Drive Systems (IJPEDS), Vol. 15, No. 1, 2088-8694 March 2024.

26. Seshu Moturu\* , Srinivasa Rao Gummadi, Madhu Valavala, **Veera Vasantha Rao Battula**, Sravanthi Kantamaneni “A Novel Transformer Approach for the Recompensed Measurement Generation and Accurate Topology Identification”, Engineering Letters Volume 32, Issue 3, Pages 601-613 March 2024.
27. Ramanaiah, M. L., Y. V. K. Reddy and **P. Venkata Mahesh**. “Economic Load Dispatch With Practical Constraints Using Mountaineering Team-Based Optimization Technique”, International Journal of Intelligent Systems and Applications in Engineering, vol. 12, no. 1s, 2024, pp. 201-208, <https://ijisae.org/index.php/IJISAE/article/view/3407>