

V R Siddhartha Engineering College: Vijayawada (Autonomous)

Department of Electrical and Electronics Engineering

Faculty Publications for the Academic Year: 2024-25 (Upto 25.11.2024)

International Journals (12)

SCI/SCIE: 6, SCOPUS: 3, ESCI: 3

Q1: 2 Q2: 5 Q3: 3

1. **Subhojit Dawn**, S. S. Das, M. Ramesh, G. Seshadri, S. R. Inkollu, T. K. S. Pandraju, U. Cali and Taha Selim Ustun, "Risk Alleviation and Social Welfare Maximization by the Placement of Fuel Cell and UPFC in a Renewable Integrated System", Frontiers in Energy Research, vol. 12, pp. 1428458, 2024. doi: 10.3389/fenrg.2024.1428458. (SCIE) (I.F. 2.6) (Q2)
2. **Subhojit Dawn**, A Ramakrishna, M Ramesh, Shreya Shree Das, **K. Dhananjay Rao**, Umit Cali and Taha Selim Ustun, "Profit Maximization of a Wind-Integrated Deregulated System using V2G Techniques and TCSC Placement", Frontiers in Energy Research, September 2024. (SCIE) (I.F. 2.6) (Q2)
3. **Subhojit Dawn**, A. Ramakrishna, M. Ramesh, Shreya Shree Das, **K. Dhananjay Rao**, Md. Minarul Islam and Taha Selim Ustun, "Integration of Renewable Energy in Microgrids and Smart Grids in Deregulated Power Systems: A Comparative Exploration", Advanced Energy and Sustainability Research, pp. 2400088, 2024. (ESCI & SCOPUS) (I.F. 6.2)
4. Punam Das, **Subhojit Dawn**, Sadhan Gope, Diptanu Das, Ferdinando Salata, "Optimal Reactive Power Dispatch and Demand Response in Electricity Market Using Multi-objective Grasshopper Optimization Algorithm", Processes, 2024. (SCIE) (I.F. 2.8) (Q2)
5. **R. C. Vankina**, S. Gope, **S. Dawn**, F. Alsaif and T. S. Ustun, "An Approach for Attaining Economic Profit by Optimal Operation of Hybrid Thermal-Wind-PHS-EV System in a Deregulated System," IEEE Access, vol. 12, pp. 95684-95702, 2024. (SCIE) (I.F. 3.9) (Q1)
6. **Chowdary Vankina Ravindranadh**, Sadhan Gope, **Subhojit Dawn**, Ahmed Al Mansur, and Taha Selim Ustun, "An Effective Strategy for Achieving Economic Reliability by Optimal Coordination of Hybrid Thermal–Wind–EV System in a Deregulated System," World Electric Vehicle Journal, vol. 15, no. 7, pp. 289, 2024. (ESCI) (I.F. 2.6) (Q2)
7. T. Papi Naidu, G. Balasubramanian and **B Venkateswararao**, "Weighted sum method based multi-objective optimal power flow considering various objectives: an application of whale optimization algorithm", International Journal of Applied Power Engineering (IJAPE), Vol. 13, No. 4, December 2024, pp. 963~972, ISSN: 2252-8792, DOI: 10.11591/ijape.v13.i4.pp963-972. (SCOPUS) (IF. 0.4) (Q3).

8. **Sela Naga Venkata Sri Krishna Chaitanya**, R. Ashok Bakkiyaraj, **Bathina Venkateswara Rao**, and Kalikrishnan Jayanthi, "Optimal reactive power dispatch using modified-ant lion optimizer with flexible AC transmission systems devices", Bulletin of Electrical Engineering and Informatics, vol. 14, no. 1, February 2025, pp. 11-20, ISSN: 2302-9285, DOI: 10.11591/eei.v14i1.5882. **(SCOPUS) (IF. 0.689) (Q3)**.
9. **K. Dhananjay Rao**, A. Ramakrishna, M. Ramesh, P.A.L.L.A.N.T.I. Koushik, **Subhojit Dawn**, P. Pavani, Taha Selim Ustun, and Umit Cali, "A Hyperparameter-tuned LSTM Technique-based Battery Remaining Useful Life Estimation Considering Incremental Capacity Curves," IEEE Access, vol. 12, pp. 127259 – 127271, 2024. **(SCIE) (I.F. 3.4) (Q1)**
10. Chappa A., **K. Dhananjay Rao**, Dhananjaya M., **Dawn S.**, Al Mansur A., and Ustun T. S., "Machine learning based fault detection technique for hybrid multi-level inverter topology", The Journal of Engineering, vol. 9, pp. e70001, 2024. **(ESCI & SCOPUS) (I.F. 1)**
11. **Damarla Indira**, **Bindu Vadlamudi**, Venmathi Mahendran, and **K. Dhananjay Rao**, "Analysis of Torque Ripple Investigation on 3-Phase SR Motor Drive for EV Applications", International Journal of Circuit Theory and Applications, Wiley, ISSN: 0098-9886, DOI: 10.1002/cta.4266. **(SCIE) (I.F. 1.8) (Q2)**
12. Swathi Dasi, **Swarupa Rani Bondalapati**, Mummidi P Subbaraju, Divya Nimma, Pradeep Jangir, R Vijaya Kumar Reddy and N Zareena, "IoT-Based Intelligent Energy Management for EV Charging Stations," IAENG International Journal of Computer Science, vol. 51, no. 11, pp. 1853-1861, 2024. **(SCOPUS) (Q3)**.

International Conferences (21)

SCOPUS: 21 IEEE Conference: 21

UG: 12

13. C. Jahnavi, **S. R. Gummadi**, U. Gunteiah, J. Tulluri and D. Niharika, "Enhancing matrix converter output voltage control through fuzzy logic controller," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-5, DOI: 10.1109/ICCIGST60741.2024.10717585. **(IEEE) (SCOPUS) (UG)**
14. G. N. Nikhita, N. Sunny, S. P. Teja and **G. S. Rao**, "MilkEase-Simplifying Daily Dairy Needs with a User-Friendly App," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-5, DOI: 10.1109/ICCIGST60741.2024.10717544. **(IEEE) (SCOPUS) (UG)**

15. **M. R. Ranga, V. Rao Bathina** and S. Kotni, "A review of solar cell parameters extraction using metaheuristic optimization methods based on various diode models," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717470. **(IEEE) (SCOPUS)**
16. Cherukumpalem Mohiddin Khan, **S.V.R Lakshmi Kumari**, Chundi Vinay Kumar, Mekala Hema and Rayipudi Angel, "Performance Analysis of Solar MPPT Methods under Varied Shaded Conditions", 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024. pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717526. **(IEEE) (SCOPUS) (UG)**
17. T. Nagadurga, **P.V.R.L. Narasimham** and V. S. Vakula, "Comparative Evaluation of Optimization Algorithms for Maximum Power Point Tracking under Partial Shading Conditions", 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717504. **(IEEE) (SCOPUS)**
18. N. Eedara, **N. V. S. K. Chaitanya Sela**, P. Veeranala and J. Pedakapu, "Machine Learning for Intelligent EV Charging Slot Booking During Low-Cost Grid Periods," 2024 IEEE 9th International Conference for Convergence in Technology (I2CT), Pune, India, 2024, pp. 1-5, doi: 10.1109/I2CT61223.2024.10543694. **(IEEE) (SCOPUS) (UG)**
19. P. Veeranala, **S. N. V. S. K. Chaitanya**, N. Eedara and J. Pedakapu, "Smart Trolley for Supermarkets Using IoT," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717557. **(IEEE) (SCOPUS) (UG)**
20. M. Sumanth, **S. N. V. S. K. Chaithanya**, N. B. Nouluri, J. Kokkiligadda and P. N. Puthi, "Solar Water Pumping System with BLDC Motor and ANN-based MPPT Technique," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717503. **(IEEE) (SCOPUS) (UG)**
21. D. Tatababu, **M. R. Ranga**, D. Satyannarayana, Y. Jyothi and A. R. Devi, "Smart Fuel Monitoring System For Diesel Generator," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717583. **(IEEE) (SCOPUS) (UG)**
22. S. Narava, **V. R. Aduru**, A. Pujitha, T. R. Gemini and B. Sumanth, "Brain Tumor Segmentation using Spatial Fuzzy C-means(SFCM) and CNN Fusion," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717595. **(IEEE) (SCOPUS) (UG)**

23. L. Mane, **V. R. Aduru**, V. Siliveru, H. Kollu and H. V. Gogulamudi, "Comparative Analysis of Machine Learning Algorithms and Neural Networks in Early Detection of Breast Cancer," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717586. **(IEEE) (SCOPUS) (UG)**
24. S. S. Das, **Subhojit Dawn**, J. Kumar and K. D. Rao, "A Real Power Location Price-Based Method for Congestion Reduction by Optimal Operation of UPFC," 2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), Hyderabad, India, 2024, pp. 1-7, doi: 10.1109/SEFET61574.2024.10717900. **(IEEE) (SCOPUS)**
25. J. B. Basu, **Subhojit Dawn**, P. K. Saha and M. R. Chakraborty, "A review on optimal placement of TCSC in a Fuel cell-wind integrated deregulated power system.," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717558. **(IEEE) (SCOPUS)**
26. M. R. Chakraborty, Subhojit Dawn, P. K. Saha and J. B. Basu, "Evolution and Present Status of Electric Vehicles: A Comprehensive Review," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717604. **(IEEE) (SCOPUS)**
27. V. S. Pavan M, **Ravindranadh. V**, I. S. MD, V. S. Sathish D and P. S. Sankar J, "Optimizing Microgrid Performance Using Transient Droop Control," 2024 IEEE International Conference on Information Technology, Electronics and Intelligent Communication Systems (ICITEICS), Bangalore, India, 2024, pp. 1-7, doi: 10.1109/ICITEICS61368.2024.10625432. **(IEEE) (SCOPUS) (UG)**
28. **K. Dhananjay Rao**, P. Pavani, A. Hemachander, **S. Dawn** and P. Bankupalli, "Lithium-IoN Battery Degradation Analysis Using Incremental Capacity Technique," 2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), Hyderabad, India, 2024, pp. 1-4, doi: 10.1109/SEFET61574.2024.10718256. **(IEEE) (SCOPUS)**
29. N. N. Prabhas, **V. K. Jonnalagadda**, A. S. Babu, V. M. Kanth and N. Sadhvik, "Inertia Enhancement With Grid-Connected Renewable Energy Sources Using K-NN Control Technique," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717542. **(IEEE) (SCOPUS) (UG)**
30. D. Reddy, **V. K. Jonnalagadda** and P. Hemachandu, "Sliding Mode Controller-Based Grid-Tied Solar PV System Using a Novel MPPT Technique," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-5, doi: 10.1109/ICCIGST60741.2024.10717582. **(IEEE) (SCOPUS)**

31. R. Jampana, **I. Damarla**, P. R. Manikanta, V. Pradyumna and R. Aravind, "Implementation of a Power Converter for Battery Cell Equalization in EV Applications," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), Vijayawada, India, 2024, pp. 1-6, doi: 10.1109/ICCIGST60741.2024.10717573. **(IEEE) (SCOPUS) (UG)**
32. **B. Vadlamudi, I. Damarla, M. Vital** and **S. Dawn**, "Detection of Islanding Using Intelligent Classifiers for Integrated Solar Wind Power System," 2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), Hyderabad, India, 2024, pp. 01-06, doi: 10.1109/SEFET61574.2024.10718223. **(IEEE) (SCOPUS)**
33. AR Kishore, PESN Krishna Prasad, K. Parish Venkata Kumar, **N. Vamsi Krishna** and Srinivasa Rao Dokku, "Predicting Stock Market Odds Across Time Variations using Deep Learning Algorithms", 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST), 18-19 July 2024, DOI: 10.1109/ICCIGST60741.2024.10717497. **(IEEE) (SCOPUS)**

Book Chapters (6)

SCOPUS: 6

UG: 3 PG: 2

34. Yamini D., **Rao G.S.**, Tejaswi M., Vishal M.G. and Vennela, M, "Enhancement of Solar Panel Efficiency", In: Pal, M., Guerrero, J.M., Siano, P., Das, D., Chowdhuri, S. (eds) Innovations in Energy Management and Renewable Resources. IEMRE 2023. Lecture Notes in Electrical Engineering, vol. 1239. Springer, Singapore, 2024. DOI: 10.1007/978-981-97-6390-0_24, October 2024, Online ISBN: 978-981-97-6390-0. **(SCOPUS) (UG)**
35. Devasahayam B. and **Venkateswara Rao B.**, "Multi-objective Optimal Power Flow Using Krill Herd Algorithm", Recent Advancements in Product Design and Manufacturing Systems. Lecture Notes in Mechanical Engineering. Springer, Singapore, November 2024. DOI: 10.1007/978-981-97-6732-8_37. **(SCOPUS) (PG)**
36. K. Bhaskara Sandhya, **S. N. V. S. K. Chaitanya, B. Venkateswara Rao** and R. Ashok Bakkiyara, "Optimal Reactive Power Dispatch Using Improved Grey Wolf Algorithm", Recent Advancements in Product Design and Manufacturing Systems, Lecture Notes in Mechanical Engineering, Springer Nature Singapore Pte Ltd., pp.445-458, November 2024. DOI: 10.1007/978-981-97-6732-8_38. **(SCOPUS) (PG)**
37. Bavisetty A., **K. Dhananjay Rao**, Reddy, K.M.M.K., Pallanti, K. and Leelamadhavi, "A Smart EV-Based Micro Mobility System", In: Pal, M., Guerrero, J.M., Siano, P., Das, D., Chowdhuri, S. (eds) Innovations in Energy Management and Renewable Resources. IEMRE 2023. Lecture Notes in Electrical Engineering, vol 1239. Springer, Singapore. **(SCOPUS) (UG)**

38. Bavisetty, A., **K. Dhananjay Rao**, Reddy, K.M.M.K., Pallanti, K. and Leelamadhavi, “A Smart EV-Based Micro Mobility System”, In: Pal, M., Guerrero, J.M., Siano, P., Das, D., Chowdhuri, S. (eds) Innovations in Energy Management and Renewable Resources. IEMRE 2023. Lecture Notes in Electrical Engineering, vol. 1239. Springer, Singapore, 2024. **(SCOPUS) (UG)**
39. **Kondisetti L.** and Katragadda S, “Artificial Hummingbird Algorithm for Optimal Reactive Power Control for Radial Distribution Feeder Loadability Enhancement”, In: Tripathi, A.K., Anand, D., Nagar, A.K. (eds) Proceedings of World Conference on Artificial Intelligence: Advances and Applications. WCAIAA 2024. Algorithms for Intelligent Systems. Springer, Singapore, 2024. DOI: 10.1007/978-981-97-4496-1_34. **(SCOPUS)**