4.1 Publications in Journals : (International/National) between 1st July 2020 to 30th June 2021

1. Prabhat Kumar Upadhyay, Chetna Nagpal (2020). Wavelet Based Performance Analysis of SVM and RBF Kernel for Classifying Stress Conditions of Sleep EEG. Romanian Journal of Information Science and Technology, Romanian Academy, Vol 23, No 03, pp. 292-310. (SCIE indexed)

2. Prabhat Kumar Upadhyay, Chetna Nagpal (2020). PCA aided FCM Identifies Stressful Events of Sleep EEG under Hot Environment. IETE Journal of Research, DOI: 10.1080/03772063.2020.1782273. pp. 1-14. (SCIE indexed)

3. Prabhat Kumar Upadhyay, Chetna Nagpal (2020). Time-Frequency Analysis and Fuzzy Based Detection of Heat Stressed Sleep EEG Spectra. Medical & Biological Engineering & Computing. DOI:10.1007/s11517-020-02278-7 pp. 23-39. (SCIE indexed)

4. Prabhat Kumar Upadhyay, Pandita, Archana, and Nisheeth Joshi (Nov. 2020). Fuzzy Logic Based Detection of SLA Violation in Cloud Computing-A Predictive Approach, International Journal of Next-Generation Computing, Vol. 11 Issue 3, pp 250-262. (Scopus indexed)

5. Subham Dey, Dipak Kumar Giri, Kumar Gaurav, Vijaya Laxmi. Robust Non-singular Terminal Sliding Mode Attitude Control of Satellites, Journal of Aerospace Engineering 34(1), (SCIE, Web of Science) https://doi.org/10.1061/(ASCE)AS.1943-5525.0001224.

6. Kumar Nikhil, Vijaya Laxmi, Dinesh Chandra(2020). Designing Controller Using Stable Krylov Subspace Method. Psychology and Education. 57(9): 5046-5053. DOI: https://doi.org/10.17762/pae.v57i9.2001.

7. Prabhat Tripathi, Parashuram Thakura, Vijaya Laxmi, Ritesh Keshri. Stand-alone PV Water Pumping System Based on High-Gain Resonant Inverter Fed Induction Motor Serving Two-Head for Permanent Water Supply, International Journal of Circuit Theory and Applications. https://doi.org/10.1002/cta.2983.

8. Niteesha Kumari, S. Shiva Kumar and V. Laxmi. Design of an efficient bipolar converter with fast MPPT algorithm for DC nanogrid application, International Journal of Circuit Theory and Applications. https://doi.org/10.1002/cta.3020.

9. Piyush K. Ojha,Parashuram Thakura and Sarode S. Kumar(2021). Generalized Transfer Function–Based Modelling, Designing and Analysis of a Single-Stage Boost Inverter International jounral of Power and Energy, ACTAPress. Vol. 41.

10. Kumar, S., Chakraborty, S. Design(2020).Validation, and Comparison of UDE-based Pitch-axis Control of Helicopter with existing Conventional and Non-conventional Controllers. Arab J Sci Eng . https://doi.org/10.1007/s13369-020-04775-1.

11. Kumar, Manish, Sudhansu Kumar Mishra, Justin Joseph, Sunil Kumar Jangir, and Dinesh Goyal(2021). Adaptive comprehensive particle swarm optimisation-based functional-link neural network filtre model for denoising ultrasound images. IET Image Processing. vol 15 [Online]. Available: 10.1049/ipr2.12100, Indexing: SCIE.

12. Mishra, A., Sahu, S.S., Sharma, R. and Mishra, S.K.(2021). Denoising of Electrocardiogram Signal Using S-Transform Based Time–Frequency Filtering Approach. Arabian Journal for Science and Engineering, 1 [Online]. Available: 10.1007/s13369-021-05333-z, Indexing: SCIE.

13. Dash, Prajna Parimita, Sudhansu Kumar Mishra, Kishore Kumar Senapati, and Ganapati Panda(2021). Interactive teaching learning based optimization technique for multiple object tracking. Multimedia Tools and Applications, vol.7 [Online]. Available: 10.1007/s11042-020-10057-7, Indexing: SCIE.

14. Sahoo, Amit Kumar, Sudhansu Kumar Mishra, Babita Majhi, Ganapati Panda, and Suresh Chandra Satapathy(2021). Real-Time Identification of Fuzzy PID-Controlled Maglev System using TLBO-Based Functional Link Artificial Neural Network. Arabian Journal for Science and Engineering. vol 46, [Online]. Available: 10.1007/s13369-020-05292-x, Indexing: SCIE.

15. Acharya, D. S., S. K. Swain, and S. K. Mishra(2020). Real-Time Implementation of a Stable 2 DOF PID Controller for Unstable Second-Order Magnetic Levitation System with Time Delay. Arabian Journal for Science and Engineering. vol 9[Online]. Available: 10.1007/s13369-020-04425-6, Indexing: SCIE.

16. Kumar, Manish, Sudhansu Kumar Mishra, Dilip Kumar Choubey, Sunil Kumar Jangir, and Dinesh Goyal(2021). Multichannel heuristic learning based single layer neural network filter for mixed noise suppression from color Doppler ultrasound images. Journal of Real-Time Image Processing. [Online]. Available: 10.1007/s11554-020-01061-z, Indexing: SCIE.

17. Vikash Kumar and Sudhansu Kumar Mishra(2021). A Comparative performance evaluation of a set of swarm intelligence based optimization algorithms for economic operation with FACTS devices in Power system. Journal of Scientific and Industrial Research (JSIR).vol.80, Indexing: SCIE.

18. Deep Shekhar Acharya, Sudhansu Kumar Mishra, and Ganapati Panda(2021). A Comparative Performance Assessment of Evolutionary Fractional Order PID Controllers for Magnetic Levitation Plant with Time Delay. Journal of Scientific and Industrial Research (JSIR), vol.80, 2021, Indexing: SCIE.

19. Sarat Kumar Mishra and Sudhansu Kumar Mishra(2021). Solution of the combined environmental economic dispatch problem using multi-objective cat swarm optimization. International Journal on Electrical Engineering and Informatics. Accepted. Indexing: Scopus.

20. Acharya, Deep Shekhar, and Sudhansu Kumar Mishra(2020). A multi-agent based symbiotic organisms search algorithm for tuning fractional order PID controller Measurement. vol 155 [Online]. Available: 10.1016/j.measurement.2020.107559, Indexing: SCIE.

21. Mishra, Sudhansu Kumar, Amit Kumar Sahoo, Rudra Narayan Pandey, Prajna Parimita Dash(2020). Identification of Real-Time Maglev Plant using Long-Short Term Memory Network based Deep Learning Technique. Journal of Scientific and Industrial Research (JSIR). vol 79, [Online]. Available: nopr.niscair.res.in/handle/123456789/55727, Indexing: SCIE.

22. Sagar, Priya, Ashruti Upadhyaya, Sudhansu Kumar Mishra, Rudra Narayan Pandey, Sitanshu Sekhar Sahu, and Ganapati Panda(2020). A Circular Adaptive Median Filter for Salt and Pepper Noise Suppression from MRI Images. Journal of Scientific and Industrial Research (JSIR). vol.79, Indexing: SCIE.

23. Sarat Kumar Mishra and Sudhansu Kumar Mishra(2020). A solution of economic emission dispatch problem of solar integrated thermal power system using multi-objective teaching learning based optimization. Journal of Advanced Research in Dynamical and Control

Systems. vol. 12, [Online]. Available: 10.5373/JARDCS/V12I3/20201167, Indexing: Scopus.

24. Mishra, Sarat, and Sudhansu Kumar Mishra(2020). Performance Assessment of a Set of Multi-Objective Optimization Algorithms for Solution of Economic Emission Dispatch Problem. Informatica. vol .44, [Online]. Available10.31449/inf.v44i3.1969, Indexing: Scopus.

25. Sahoo, Amit Kumar, and Sudhansu Kumar Mishra(2020). Design of Lagrangian based FOPID Controller for Desired Closed Loop System. Journal of Circuits, Systems and Computers. [Online]. Available: 10.1142/S021812662150064X, Indexing: SCIE.

26. Deep Shekhar Acharya, Sudhansu Kumar Mishra(2020). Optimal Consensus Recovery of Multi-Agent System subjected to Agent Failure. International Journal of Artificial Intelligent Tools. Vol.29 [Online]. Available: 10.1142/S0218213020500177, Indexing: SCIE.

27. Manish Kumar, Sudhansu Kumar Mishra(2020).A Comprehensive Review of Nature Inspired Neural Network based Adaptive Filter for Eliminating Noise from Medical Images. Current Medical Imaging. Vol.16, 2020. [Online]. Available: 10.2174/1573405614666618080111334, Indexing: SCIE.

28. Nilesh Kumar Rajalwal, Debomita Ghosh(2020). Recent Trends in Integrity Protection of Power System: A Literature Review"International Transaction on Electrical Energy Systems, Wiley. p.1 ,Vol. 30, No.10.

29. Sonal, Debomita Ghosh(2021). Novel Trends in Resilience Assessment of a Distribution System using Synchrophasor Application: A Literature Review. International Transaction on Electrical Energy Systems, Wiley. p.1 DOI: https://doi.org/10.1002/2050-7038.12934.

30. Sourav Chakraborty, Panneru Arvind & Deepak Kumar (2021). Coordinated Control for Frequency Regulation in a Stand-Alone Microgrid Bolstering Demand Side Management Capability. Electric Power Components and Systems(Taylor & Francis, SCI). DOI: 10.1080/15325008.2021.1937391.

31. Kumari Sandhya, T. Ghose, Deepak Kumar, Kalyan Chatterjee(2020). PN Inference Based Autonomous Sequential Restoration of Distribution System under Natural Disaster. IEEE Systems Journal. p. 5160, Vol. 14.

32. Sumit Kumar Jha, Deepak Kumar, M. Lehtonen. Modified V-I droop based adaptive vector control scheme for demand side management in a stand-alone microgrid. International Journal of Electrical Power & Energy Systems. Vol. 130, ISSN 0142-0615, https://doi.org/10.1016/j.ijepes.2021.106950.

33. Sandip Gupta,T.Ghose,K Chatterjee(2020). Optimal coordination between PV smart inverters and different demand response programs for voltage regulation in distribution system.International Transactions on Electrical Energy Systems,volume 31,issue 3.

34. Nionika Loitongbam,Kumar Raja, T.Ghose(2020). Assessment of the potential of multifarious demand response programs in reducing transformer loss of life. International Journal of Emerging Electric Power Systems.Vol.21,issue 5.