

4.1 Publications in Journals : (International/National)

1. Mallikarjuna B, Devagupta R, Reddy M J B, & **Mohanta D K** (2020). Synchrophasor Sensors Assisted Novel Algorithm for Power System Protection Reinforcement and Health Monitoring. *IEEE Sensors Journal*, Vol 20, (15). p 8213-8222.
2. Manohar M, Koley E, Ghosh S, **Mohanta D K**, & Bansal R C (2020). Spatio-temporal information based protection scheme for PV integrated microgrid under solar irradiance intermittency using deep convolutional neural network. *International Journal of Electrical Power & Energy Systems*, Vol 116, p 105576.
3. Pal D, Mallikarjuna B, Gopakumar P, Reddy M J B, Panigrahi B K, & **Mohanta D K** (2020). Probabilistic Study of Undervoltage Load Shedding Scheme to Mitigate the Impact of Protection System Hidden Failures. *IEEE Systems Journal*, Vol 14, (1). p 862-869.
4. Dwivedi A, Mallikarjuna B, Pal D, Reddy M J B & **Mohanta D K** (2019). A Real-Time Synchrophasor-Based Zone-3 Supervision of Distance Relays Under Load Encroachment Condition. *IEEE Systems Journal*, Vol 13, (4). p 4227-4235.
5. **Mohanta D K** (2019). Emerging Trends In System Integrity Protection Schemes (SIPS) for Improving the Performance of Smart Grid. Guest Editorial, *IET Generation, Transmission & Distribution*, Vol 13, (8). p 1191-1193.
6. Shukla S K, Koley E, Ghosh S & **Mohanta D K** (2019). Enhancing the reliability of six-phase transmission line protection using power quality informatics with real-time validation. *International Transactions on Electrical Energy Systems (Wiley Publishers)*, Vol 29, (9).
7. Appasani B, & **Mohanta D K** (2019). A Two-Stage Markov Model Aided Frequency Duration Approach for Reliability Analysis of PMU Microwave Communication Networks. *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, Vol 233, (3). p 355-368.
8. Rajalwal N K, & **Ghosh D** (2020). Recent Trends in Integrity Protection of Power System a Literature Review. *International Transaction on Electrical Energy Systems Wiley*, p 1-43. <https://doi.org/10.1002/2050-7038.12523>.
9. Sahu S K, & **Ghosh D** (2020). Hosting Capacity Enhancement in Distribution System in Highly Trenchant Photo-voltaic Environment a Hardware in Loop Approach *IEEE Access*, Vol 8, p 14441-14451.
10. Acharya D S, & **Mishra S K** (2020). A Multi-Agent based Symbiotic Organisms Search Algorithm for Tuning of Fractional Order PID Controller Measurement. Elsevier, Vol 155, <https://doi.org/10.1016/j.measurement.2020. article 107559>.
11. Acharya D S, Swain S K, & **Mishra S K** (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 Springer*, Vol 45, (8). p 6311-6329. DOI: 10.1007/s13369-020-04425-6.
12. Sahoo A K, & **Mishra S K** (2020). Design of Lagrangian based FOPID controller for desired closed loop system. *Journal of Circuits, Systems and Computers (JCSC)*, World Scientific (**Accepted**).
13. Acharya D S, & **Mishra S K** (2020). Optimal Consensus Recovery of Multi-Agent System subjected to Agent Failure. *International Journal of Artificial Intelligent Tools*, World Scientific (**Accepted**).

14. Sagar P, Upadhyaya A, **Mishra S K**, Pandey R N, Sahu S S, & Panda G (2020). A Circular Adaptive Median Filter for Salt and Pepper Noise Suppression from MRI Images. Journal of Scientific and Industrial Research, National Institute of Science Communication and Information Resources (NISCAIR) (**Accepted**).
15. Kumar M, **Mishra S K**, Choubey S K, Tripathy S S, Choubey D K, & Das D (2020). Cat Swarm Optimization based Functional Link Multilayer Perceptron for Suppression of Gaussian and Impulse Noise from Computed Tomography Images. Current Medical Imaging Reviews Bentham Science, Vol 16, p 329-339.
16. Kumar M, & **Mishra S K** (2020). A Comprehensive Review of Nature Inspired Neural Network based Adaptive Filter for Eliminating Noise from Medical Images. Current Medical Imaging Reviews. Bentham Science, Vol 16, p 278-287.
17. Sain D, **Swain S K**, & Kumar T (2020). Robust 2-DOF FOPID Controller Design for Maglev System Using Jaya Algorithm . IETE Journal of Research, Vol 66, (3). p 414-426.
18. Sain D, **Swain S K**, Saha A, **Mishra S K**, & **Chakraborty S** (2019). Real-Time Performance Analysis of FOI-PD Controller for Twin Rotor MIMO System. IETE Technical Review, Vol 36, (6). p 547-567.
19. **Gupta G S**, Bhatnagar M, Kumar S, & Sinha R K (2020). A Comparative Study of Application of Different Non-Conventional Filters on Electroencephalogram. Biomedical Research (0970-938X), Vol 31, (1).
20. **Kamlu S**, & **Laxmi V** (2019). Condition-based maintenance strategy for vehicles using hidden Markov models, Advances in Mechanical Engineering, Vol 1, (1). <https://doi.org/10.1177/1687814018806380>.
21. Kishore S, & **Laxmi V** (2020). Hybrid Coarse and Fine Controller Tuning Strategy for Magnetic Levitation System, Iranian Journal of Science and Technology. Transactions of Electrical Engineering, Vol 44, p 643-657.
22. Kumari S, **T Ghose**, **Kumar D**, & Chatterjee K (2020). PN Inference Based Autonomous Sequential Restoration of Distribution System under Natural Disaster. IEEE Systems Journal, 23.
23. Jha S K, & **Kumar D** (2019). Assessment of Battery Energy Storage System with Hybrid Renewable Energy Sources to Voltage Control of Islanded Microgrid Considering Demand-Side Management Capability Iranian Journal of Science and Technology. Transactions of Electrical Engineering (Springer), Vol 44, (2). p 861-877.
24. Jha S K, & **Kumar D** (2019). Demand side management for stand-alone microgrid using coordinated control of battery energy storage system and hybrid renewable energy sources Electrical Power Components and System [Taylor & Francis], Vol 47, p 1261-1273.
25. **Ghose T**, Pandey H W, & Gadham K R (2019). Risk assesment of microgrid aggregators considering demand response and uncertain renewable energy sources. Journal of Modern Power Systems and Clean Energy, p 1619-1631. <https://doi.org/10.1007/s40565-019-0513-x>.
26. Appasani B, & **Mohanta D K** (2020). Reliability analysis of the PMU microwave communication networks using generalised stochastic Petri nets. International Journal of Power and Energy Conversion, Vol 1, (1). p 99-116.
27. Jain T, **Ghosh D**, & **Mohanta D K** (2019). Augmentation of situational awareness by fault passage indicators in distribution network incorporating network reconfiguration. Protection and Control of Modern Power Systems, Vol 4, (1). p 26.
28. Jain T, **Ghosh D**, & **Mohanta D K** (2019). Augmentation of situational awareness by fault passage indicators in distribution network incorporating network reconfiguration. Protection and

control of modern power systems, Springer, Vol 4, DOI: <https://doi.org/10.1186/s41601-019-0140-6>.

29. Mishra K, & **Mishra S K** (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*. Accepted for publication, Vol 12, (3). p 57-70.

30. **Gupta G S, Mohanta D K**, Ghosh S, Dave G B, Bhatnagar M, & Sinha R K (2020). Ocular Artifacts elimination and feature extraction in motor imagery-based bci using nonlinear adaptive filter. *Biomedical Engineering: Applications, Basis and Communications*, Vol 32, (02).

31. **Gupta G S**, Bhatnagar M, Ghosh S, & Sinha R K (2020). Design of control system for motor imagery based neuro-aid application. *Biomedical Engineering Applications Basis and Communications*, Vol 31, (04).

32. **Gupta G S**, Bhatnagar M, **Mohanta D K**, & Sinha R K (2020). Prototype algorithm for three-class motor imagery data classification: a step toward development of human-computer interaction-based neuro-aid. In *Smart Biosensors in Medical Care*, p 1-28.

33. **Kamlu S, & Laxmi V** (2019). Design and Analysis of Preventive Health Management System for Vehicles using ANFIS, *International Journal of Computational Complexity and Intelligent Algorithms* (IndersciencePublishers), Vol 1, (2). p 196-213.

<https://doi.org/10.1504/IJCCIA.2019.103730>.

34. Kishore S, & **Laxmi V** (2020). Modeling, Analysis and Experimental Evaluation of Boundary Threshold Limits for Maglev System. *International Journal of Dynamics and Control* (Springer), Vol 8, p 707-716.

35. Sahoo A K, & **Mishra S K** (2020). Analytical FOPID controller design based on Bode's ideal transfer function for desired closed loop response, *Journal of Advanced Research in Dynamical and Control Systems* (JARDCS), Vol 12, (5). p 9-20.