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Journal Publications

- S. Singha and P. Bera, “Multi Objective Slime Mould Algorithm Based Energy Management in Hybrid Micro Grid System”, ISC, vol. 37, no. 4, pp. 38–47, May 2024.

Conference Publications (Yet to be published)

- [1]. S. Singha, S. Pal, S. Ghosh, A. Banik, and A. Ghosh, *Integration of renewable energy in smart grids: Opportunities, challenges, and future directions*. India: International Conference on Engineering Design and Computing (ICEDC)-2025.
- [2]. S. Singha, S. Pal, P. Kumar Das, A. Ghosh, and S. Ghosh, *Advancements in economic load dispatch optimization: integrating green energy sources and sustainable practices*. India: International Conference on Engineering Design and Computing (ICEDC)-2025.
- [3]. S. Singha, A. Mondal, S. Kumar Pal, P. Kumar Das, and S. Ghosh, *Optimization Strategies for Economic Load Dispatch in Smart Grids: A Comprehensive Review of Modern Techniques*. International Conference on Engineering Design and Computing (ICEDC)-2025.
- [4]. S. Singha, A. Banik, S. Kumar Pal, S. Kumar Ghosh, and A. Mondal, *Cybersecurity in Smart Grids: Threats, solutions, and future research direction*. International Conference on Engineering Design and Computing (ICEDC)-2025.
- [5]. S. Singha, S. Pal, P. Kumar Das, S. Kumar Ghosh, and A. Mondal, *Energy Storage and demand Response in Smart Grids: A Review of Technologies and Strategies*. International Conference on Engineering Design and Computing (ICEDC)-2025.
- [6]. S. Singha, A. Guria, S. Pal, and A. Banik, *Algorithmic Approaches to Smart Grid Fault diagnosis: A case study in fault Detection and Response*. International Conference on Sustainable Research and Development (ICSRD)-2024.
- [7]. S. Singha, A. Guria, A. Banik, and S. Pal, *From waste to Energy: Pioneering a sustainable green circular Economy*. International Conference on Sustainable Research and Development (ICSRD)-2024.
- [8]. S. Singha, S. Pal, P. Kumar Das, and A. Guria, *Integrating smart Computational Hybrid Microgrids: a new model for sustainable energy in educational institutions*. International Conference on Sustainable Research and Development (ICSRD)-2024.
- [9]. S. Singha, S. Pal, A. Kumar Guria, and P. Kumar Das, *Microgrid Technology integration: smart grid advances and energy management solutions*. International Conference on Sustainable Research and Development (ICSRD)-2024.
- [10]. S. Singha, S. Pal, J. Kumar Mahata, A. Kumar Guria, and A. Banik, *Optimizing Microgrid Energy Management: Topologies for Future-Ready Power Systems*. International Conference on Sustainable Research and Development (ICSRD)-2024.