

TMI Publications

2025-2026

Indexed Journals

1. Sahoo, S.K., **Kar, M.K.**, Kumar, S. and Mahanty, R.N., 2025. Optimal design of SSSC damping controller using a novel hybrid modified grey wolf-particle swarm optimization to suppress power system oscillations. *Measurement*, p.119723. <https://doi.org/10.1016/j.measurement.2025.119723>
2. Neupane, B.P., Poudel, T., Boruah, P.B., Khan, T.J., Adam, A.S., Shurovi, M., Gnawali, L. and **Kale, R.R.**, 2025. Linguistic Landscape and Language in Education in South Asia: A Critical Appraisal. *ELE Praxis*, 2(1), pp.1-19. <https://doi.org/10.51474/elepraxis.v2i1.648>
3. Salunkhe, S., Patil, T., Washimkar, D., Pawar, A., **Naidu, M.J.** and Shinde, S., 2025. Enhanced mechanical properties of AA7075 alloy through friction stir processing: a review. *Frontiers in Mechanical Engineering*, 11, p.1656081. <https://doi.org/10.3389/fmech.2025.1656081>
4. Mangaraj, M. and **Sabat, J.**, 2025. AI-driven power quality optimization in LCL-based D-Statcom supported distribution networks. *Engineering Research Express*, 7(4), p.045304. <https://doi.org/10.1088/2631-8695/ae0a0c>
5. Gore, M., Bhosale, A., **Naidu, M.**, Ćep, R., Salunkhe, S. and Nasr, E.A., 2025. Experimental study on polymer friction composite with natural friction modifiers for brake pads. *PLoS One*, 20(9), p.e0328987. <https://doi.org/10.1371/journal.pone.0328987>
6. Tripathy, P.K., **Kar, M.K.** and Pradhan, P.C., 2025. Load frequency regulation in a multi-source hybrid power system incorporating thermal, wind, and fuel cell units. *Engineering Research Express*, 7(3), p.035380. <https://doi.org/10.1088/2631-8695/ae05f0>
7. Gaikwad, M.K., Shinde, S., Dandavate, A.L., **Naidu, M.J.**, Jadhav, T.A., Salunkhe, S. and Ćep, R., 2025. Advancements in thermoacoustic technology: a comprehensive review and analysis of recent research. *International Journal of Air-Conditioning and Refrigeration*, 33(1), p.14. <https://doi.org/10.1007/s44189-025-00081-3>
8. **Sharma, A.**, **Kar, M.K.** and Goud, H., 2025. A novel modified grey wolf optimization tuned PID controller with fractional filter for the CSTR system. *Heat and Mass Transfer*, 61(4), pp.1-16. <https://doi.org/10.1007/s00231-025-03553-9>
9. **Khan, M.A.J.**, Pohekar, S.D. and Bagade, P.M., 2025. Hydrodynamic Analysis of Accelerating and Decelerating Marine Nozzles. *International Journal of Fluid Mechanics Research*, 52(4). <https://doi.org/10.1615/InterJFluidMechRes.2025057353>
10. Sahoo, S.K., **Kar, M.K.**, Kumar, S. and Mahanty, R.N., 2025. Improved sine-cosine algorithm-based power system stability under different fault conditions. *Majlesi Journal of Electrical Engineering*, 19(1 (March 2025)), pp.1-10. <https://doi.org/10.57647/j.mjee.2025.1901.10>
11. **Sharma, A.**, **Kar, M.K.** and Goud, H., 2025. Intelligent metaheuristic algorithm based FOPID controller for CSTR system. *Int J Adv Appl Sci ISSN*, 2252(8814), p.8814. <https://doi.org/10.11591/ijaas.v14.il.pp60-68>

12. **Sharma, A., Kar, M.K.** and Goud, H., 2025. A Novel MGWO-Based FOPID Controller for CSTR System. *IETE Journal of Research*, 71(4), pp.1396-1410. <https://doi.org/10.1080/03772063.2025.2457356>
13. **Kar, M.K.**, Sabat, J. and Kanungo, S., 2025. Voltage profile enhancement of an AVR system using ant lion optimization algorithm. *Engineering Research Express*, 7(1), p.015335. <https://doi.org/10.1088/2631-8695/adad32>

Conferences

1. Reddy, O.Y., Sagar, G.J., Mahto, T., Yadav, A.K., Kumar, A. and **Kar, M.K.**, 2025, July. Quantum Computing for Enhanced Material Discovery and Optimization in Electric Vehicle Batteries. In *2025 IEEE North-East India International Energy Conversion Conference and Exhibition (NE-IECCCE)* (pp. 1-5). IEEE. <https://doi.org/10.1109/NE-IECCCE64154.2025.11182798>

Book Chapters

1. Sethy, S.K., Pradhan, P.C., **Kar, M.K.** and Sahu, B.K., Nature-inspired metaheuristic algorithm optimized TIDN controller for frequency management in networked power system with storage device and HVDC link. In *Intelligent Computing Techniques and Applications* (pp. 194-197). CRC Press.
2. Mishra, D., Nayak, A., **Kar, M.K.** and Samal, N.R., Sensitivity analysis-based performance assessment of a MGWO based PID control approach for regulating frequency in an interconnected power system. In *Intelligent Computing Techniques and Applications* (pp. 168-172). CRC Press.
3. Tripathy, P.K., Pradhan, P.C., **Kar, M.K.** and Raman, J., 2025. A novel modified SCA-PID based load frequency control. In *Intelligent Computing Techniques and Applications* (pp. 178-181). CRC Press.
4. **Subrahmanyam, C.V.**, 2025. Modelling and Design of Electric Vehicle Drivetrain System. In *Hybrid Electric Vehicles and Distributed Renewable Energy Conversion: Control and Vibration Analysis* (pp. 229-240). IGI Global Scientific Publishing.