

TMI Publications

2024-2025

Indexed Journals

1. Khadanga, R.K., Das, D., Panda, S., Mahapatro, S.R., **Kar, M.K.**, Al Mansur, A., Ustun, T.S. and Kalam, A., 2025. A Novel Modified Gorilla Troops Optimizer Algorithm for Interline Power Flow Controller-Based Damping Controller Design. *Energy Exploration & Exploitation*, 43(3), pp.971-989. <https://doi.org/10.1177/01445987241307985>
2. **Kar, M.K.**, **Kanungo, S.**, Alsaif, F. and Ustun, T.S., 2024. Optimal Placement of FACTS Devices Using Modified Whale Optimization Algorithm for Minimization of Transmission Losses. *IEEE Access*. <https://doi.org/10.1109/ACCESS.2024.3458039>
3. Patil, T., Bhosale, A., Manikandan, S.G.K., Jose, B., **Naidu, M.**, Salunkhe, S., Cep, R. and Nasr, E.A., 2024. Experimental investigation on solidification cracking & intergranular corrosion of AISI 321 & AISI 316 L dissimilar weld on pulsed current gas tungsten arc welding (PCGTAW). *Heliyon*, 10(15). <https://doi.org/10.1016/j.heliyon.2024.e34648>
4. Tripathi, R., Jadhav, T.A., Gaikwad, M.K., **Naidu, M.J.**, Gawand, A.B., Kaya, D., Salunkhe, S., Cep, R. and Abouel Nasr, E., 2024. Vibration analysis of piping connected with shipboard equipment. *Frontiers in Mechanical Engineering*, 10, p.1396170. <https://doi.org/10.3389/fmech.2024.1396170>
5. Mishra, D., Maharana, M.K., **Kar, M.K.**, Nayak, A., Islam, M.M. and Ustun, T.S., 2024. A metaheuristic algorithm for regulating virtual inertia of a standalone microgrid incorporating electric vehicles. *The Journal of Engineering*, 2024(5), p.e12383. <https://doi.org/10.1049/tje2.12383>
6. **Jain, Y.**, Kurkute, V., **Deshmukh, S.M.**, Pathan, K.A., **Attar, A.R.** and Khan, S.A., 2024. The Influence of Plate Fin Heat Sink Orientation under Natural Convection on Thermal Performance: An Experimental and Numerical Study. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 114, pp.118-129. <https://doi.org/10.37934/arfmts.114.2.118129>

Conferences

1. **Kar, M.K.**, **Sharma, C.**, **Sabat, J.** and **Kanungo, S.**, 2024, October. Grey Wolf Optimization based 2DOF-PID Controller for Load Frequency Control. In *2024 IEEE 1st International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST)* (pp. 1-5). IEEE. <https://doi.org/10.1109/GIEST62955.2024.10959859>
2. **Sharma, C.**, **Kar, M.K.**, Goud, H. and Joshi, P.V., 2024, August. Frequency Regulation of Power System using TID Controller. In *2024 8th International Conference on Computing, Communication, Control and Automation (ICCUBEA)* (pp. 1-4). IEEE. <https://doi.org/10.1109/ICCUBEA61740.2024.10774834>
3. Sahoo, S.K., **Kar, M.K.**, Kumar, S. and Mahanty, R.N., 2024, March. Genetic algorithm based optimal placement of TCSC for improving voltage profile. In *2024 11th*

International Conference on Signal Processing and Integrated Networks (SPIN) (pp. 403-408). IEEE. <https://doi.org/10.1109/SPIN60856.2024.10511762>

4. **Vandana Shinde**, Enhancing Knowledge Acquisition in Maritime Training: Alleviating Comprehension Difficulties, *WMTC*, Dec 2024.
5. **Amol Shinde and Mithul Naidu**, Hemp Reinforced Polymer Composite for a Boat Hull Structural Applications, *WMTC*, Dec 2024.
6. **M.K. Kar, C. Sharma, and J. Sabat**, Efficient Energy Management of a Solar PV Integrated Ship Power System, *WMTC*, Dec 2024.
7. **A. Attar, S M Deshmukh, A. Shinde**, Advancements in Marine Propulsion: Design, Development and Testing of a Bionic - Toroidal Propeller, *WMTC*, Dec 2024.
8. **S. Bhise, M. Hirkane**, Counselling as a bridge between the current education system and the unfolding requirements of the industry for Zen Z: A perspective towards the Maritime Industry, *WMTC*, Dec 2024.
9. **S. M. Deshmukh, J P Pal**, Computational Fluid Dynamics (CFD) Analysis of the Jet/Mist/Hyper- mist Formation Using Single or Multi-Orifice Nozzles Used to Extinguish the Fires in Containers or Closed Chambers, *WMTC*, Dec 2024.

Book Chapters

1. Sahoo, S.K., **Kar, M.K.**, Kumar, S. and Mohanty, R.N., 2024, May. Fault Analysis of Power System Under Varying Load Conditions. In *International Conference on Electric Power and Renewable Energy* (pp. 315-329). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-97-7921-5_23