



Conference: The 7th International Conference on Intelligent Computing and Optimization (ICO'2023)

Special Session: Metaheuristics for Multi-Disciplinary Engineering Applications

Special Session Description: The special session on "Metaheuristics for Multi-Disciplinary Engineering Applications" at the International Conference on Intelligent Computing and Optimization (ICO'2023) is an exploration into the innovative uses and emerging trends in metaheuristics within the diverse engineering landscape. Our focus will delve into how metaheuristic techniques can be developed, analyzed and applied to solve complex multi-disciplinary engineering problems. We will be showcasing novel algorithms, real-world applications, and advancements in areas such as optimization, decision-making, and system design. This session provides an opportunity for participants to learn, network, and engage in discussions that could shape the future of metaheuristics in engineering.

Special Session Organizers:

- Dr. Kanak Kalita, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India. drkanakkalita@veltech.edu.in
- Dr. Ranjan Kumar Ghadai, Sikkim Manipal Institute of Technology, Sikkim, India. ranjan.g@smit.smu.edu.in



Dr. Kanak Kalita



Dr. Ranjan Kumar Ghadai

Profile of Special Session Organizers:

Dr. Kanak Kalita, a distinguished professor in Computational Engineering, has a rich track record with a PhD in Computational Mechanics and Soft Computing. Over his 8-year career, he has amassed an impressive portfolio with 64 SCI and 110 SCOPUS articles, 5 edited book volumes, and a commendable h-index of 22, underpinned by 1400+ citations. A seasoned speaker, Dr. Kalita has delivered 20+ expert lectures and holds editorial positions with five respected journals. His prolific expertise extends to machine learning, process optimization, finite element method and composites.

Dr. Ranjan Ghadai, a distinguished Assistant Professor of Mechanical Engineering at Sikkim Manipal Institute of Technology, boasts an illustrious academic lineage with a B. Tech from Biju Patnaik University of Technology and both M.E and Ph.D. from Indian Institute of Engineering, Science & Technology, Shibpur. A prolific scholar, he has contributed 70 SCI/SCOPUS research articles and edited 3 book volumes. His research expertise lies in thin film coatings, experimental non-traditional machining, and optimization of machining processes, marking him as a leading voice in these fields.