

**Computational Intelligence Algorithms for Engineering Design Problems:
Theory, Practices and Applications**



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Dear colleagues,

Computational Intelligence (CI) can be framed as a heterogeneous domain that harmonized and coordinated several technologies, such as probabilistic reasoning, artificial life, multi-agent systems, neuro-computing, fuzzy systems, and evolutionary algorithms. Integrating several disciplines, such as machine learning, artificial intelligence, metaheuristics, decision support systems, and database management systems increases the CI power and impact in several engineering applications. This special issue provides a well-standing forum to discuss the characteristics of CI systems in real-world engineering. It emphasizes on the development of CI techniques and their role as well as the state-of-the-art solutions in different real world engineering applications. The special issue is proposed for researchers, academics, scientists, engineers and professionals who are involved in the new techniques of CI. CI techniques including artificial fuzzy logic and neural networks are presented for biomedical image processing, healthcare, power electronics, control systems, power systems, other engineering fields, medicine, bioinformatics, telecommunication, logistics, agriculture, etc. Hot topics we would like to cover include large-scale search spaces, Big Data applications, combination of metaheuristics and machine learning, and dealing with fitness functions that are costly to compute. Use cases describing successful applications of metaheuristics in complex scenarios are welcome.