

Special Issue

Intelligent Optimization and Control: Fuzzy Systems, Metaheuristics, and Engineering Applications

Message from the Guest Editor

The growing complexity of engineering systems and the rise of Industry 4.0 have made intelligent optimization essential. Fuzzy systems and metaheuristic algorithms, including bioinspired approaches, have shown great success in solving complex optimization and control problems. These methods offer adaptive, robust, and real-time decision-making capabilities for uncertain and dynamic environments. This Special Issue invites original research and reviews on recent advances and applications of intelligent optimization and control. We welcome contributions on fuzzy logic, metaheuristics, hybrid intelligent systems, and their use in fields such as robotics, energy, manufacturing, automation, and autonomous systems. Topics include fuzzy control systems, real-time control, and intelligent optimization in industrial and engineering processes.

Guest Editor

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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