

Special Issue

Evolutionary Computation and Multi-Objective Optimization

Message from the Guest Editors

Evolutionary computation is an area of artificial intelligence that uses algorithms inspired by natural evolution to solve optimization problems. This area's success and growth are due to its effectiveness at solving complex problems, aligned with emerging real-world issues where classical optimization techniques do not provide satisfactory results. Moreover, evolutionary algorithms are relatively simple to conceptualize and have an affordable computational cost. For multi-objective optimization problems, evolutionary algorithms search for a set of trade-off solutions, allowing decision-makers to understand each solution's implications better and make more informed choices. This approach is essential in engineering, economics, and logistics, where balancing different criteria is crucial for effective problem-solving. This Special Issue will disseminate recent advances in evolutionary computation with an emphasis on multi-objective optimization problems, including new designs of algorithms, operators, metrics, and improvements in existing examples; innovative applications of evolutionary algorithms; and theoretical and practical studies that broaden the landscape of this area.

Guest Editors

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About the Journal

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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