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Evolutionary Computation and Multi-objective Optimization

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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 multiobjective 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.











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Message from the Editor-in-Chief

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