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## Symmetry and Metaheuristic Algorithms

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### Message from the Guest Editor

Dear Colleague,

Metaheuristic algorithms have emerged as powerful and versatile tools in the field of optimization, addressing the increasing complexity of problems that traditional methods struggle to efficiently solve. These algorithms are designed to explore and exploit the search space in innovative ways to find optimal or near-optimal solutions. They offer practical and effective approaches for tackling optimization challenges across a myriad of domains, from engineering and logistics to healthcare and artificial intelligence. The growing need for these methods is evidence of their adaptability and effectiveness for solving complex real-world problems. In recent years, the application of metaheuristic algorithms has increased, underscoring their significance and versatility in various scientific areas.

"Symmetry and Metaheuristic Algorithms" is a field of study that explores the relationship between symmetry and the design and optimization of metaheuristic algorithms. Metaheuristic algorithms are approximate solution methods used for optimization problems that cannot be easily solved using traditional optimization techniques...



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## Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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