

Special Issue

Symmetry in Mathematical Optimization Algorithm and Its Applications

Message from the Guest Editor

The concept of symmetry is relevant in many real engineering fields and plays a crucial role in mathematical optimization problems, which are widely applied in system control, parameter identification and system modelling. Mathematical optimization algorithms also are an efficient tool for complex engineering problems that require a reasonable system configuration. Mathematical optimization algorithms refer to traditional optimization algorithms and intelligence optimization algorithms such as the machine learning algorithm, heuristic algorithm, swarm optimization algorithm, etc. This Special Issue focuses on the theoretical and practical application of mathematical optimization algorithms. The scope of this Special Issue includes, but is not limited to, the enhanced application of traditional optimization algorithms, combinatorial optimization algorithms, the evolutionary algorithm and the swarm optimization algorithm. Contributions that explore the application of optimization algorithms in engineering, economics, traffic, logistics and other disciplines are also highly encouraged.

Guest Editor

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About the Journal

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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