



Symmetry in Optimization and Its Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue will include any optimization techniques that could be useful in solving symmetrical problems related to data science, AI, machine learning, deep learning, bio-medical engineering, civil engineering, mechanical, electrical or any other computer science-related problems. High-quality papers are solicited to take up the theoretical and practical contributions of optimization methods in solving the topics mentioned above. Authors are requested to submit novel optimization techniques to solve any engineering problems. Authors can submit quality articles in the following areas (but not limited to):

- Particle swarm optimization;
- Genetic algorithm;
- Grey wolf optimization;
- Discrete optimization;
- Genetic algorithms;
- Deep learning for large-scale engineering optimization problems;
- Machine learning for engineering optimization problems;
- Parameter optimization in neural networks;
- Ant colony optimization;
- Simulated annealing;
- Tabu search.





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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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