Special Issue

Symmetry in Process Optimization

Message from the Guest Editors

The Special Issue, "Symmetry in Process Optimization", aims to explore the pervasive role of symmetry principles in advancing optimization techniques across diverse scientific domains. With a focus on the integration of machine learning and optimization methodologies, this Special Issue seeks to elucidate how symmetry considerations can enhance algorithmic efficiency, model robustness, and solution quality in various application areas. By fostering interdisciplinary dialogue, this collection will illuminate novel approaches for tackling complex optimization problems in fields such as engineering, physics, chemistry, biology, and beyond. Through theoretical analyses, algorithm development, and real-world case studies, this issue aims to showcase the transformative potential of symmetry-aware optimization techniques in addressing contemporary scientific challenges.

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Symmetry

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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