

Special Issue

Symmetry in Optimization Theory: Method and Application

Message from the Guest Editor

Control problems using PDE constraints and interfacial dynamics have been widely applied in the areas of science and engineering. This Special Issue will focus on different aspects of the theory, analysis, and various numerical methods and applications of the symmetries of control problems using PDE constraints, interface problems, conservative schemes using partial differential equations, and singular problems. Papers on this issue should cover recently developed numerical techniques as well as their theoretical results and their applications. The nature of this Special Issue will be mathematics centered and will also include multi-disciplinary multi-physics applications, particularly those that are relevant to computational fluid mechanics, mathematical biology, materials sciences, and other related areas.

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.

Editor-in-Chief

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