Special Issue

Symmetry in Variational Inequality Problems and Fixed Point Theory and Their Applications

Message from the Guest Editor

Variational inequalities introduced in the early sixties have witnessed an explosive growth in theoretical advances, algorithmic development, and applications across all the disciplines of pure and applied sciences, combining novel theoretical and algorithmic advances with new domains of applications. Analyzing these problems requires a blend of techniques from convex analysis to functional analysis and numerical analysis. As a result of the interaction between different branches of mathematical and engineering sciences, including statistics options with machine learnings in artificial intelligence, we now have a variety of techniques to suggest and analyze various numerical methods such as projection technique and its variant forms, auxiliary principle, and Wiener–Hopf equations for solving variational inequalities and related optimization problems.

Guest Editor

Prof. Dr. Zhenyu Huang

School of Mathematics, Nanjing University, Nanjing 210093, China

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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

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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