Special Issue

Symmetry in Fixed Point Theory and Optimization: Computations and Applications

Message from the Guest Editor

Symmetry is a foundational concept that resonates through diverse areas of mathematics and computer science, providing deep insights into the structures and dynamics of many analytical and computational processes. In fixed point theory and optimization, including vector optimization, linear programming, variational inequalities, and equilibrium problems, symmetrical principles often guide iterative schemes, enhance convergence properties, and inspire new approaches to challenging questions in mathematics, engineering, and computational applications. This Special Issue, titled "Symmetry in Fixed Point Theory and Optimization: Computations and Applications", will highlight both theoretical breakthroughs and practical advances that capitalize on symmetrical frameworks. We request original research articles, review articles, and short communications examining the influence and role of symmetry within the realms of fixed point theory, optimization, and computer science. By uniting experts across these domains, we will show how symmetrical considerations not only deepen theoretical understanding but also spark new applications and innovations.

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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