

Special Issue

Symmetry and Asymmetry Study in Graph Theory

Message from the Guest Editor

This Special Issue will explore the fundamental roles of symmetry and asymmetry in graph theory, with a particular focus on combinatorial algorithms, the integration of graph properties with uncertainty, and the fault diagnosis of nodes or links in interconnected networks. We will also examine the restricted connectivity and diagnosability of multiprocessor systems, as well as the application of graph neural networks (GNNs) to these complex problems. By addressing these topics, we aim to advance the understanding in areas such as algorithmic complexity in graph theory and to improve the reliability and efficiency of complex networks.

Guest Editor

Dr. Mujiangshan Wang

Institute of Advanced Computing and Digital Engineering, Shenzhen
Institute of Advanced Technology, Chinese Academy of Sciences,
Shenzhen 518055, China

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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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.

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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