

Special Issue

Advances in Graph Theory ☒

Message from the Guest Editor

Graph theory is now one of the most active branches of mathematics. In recent decades, significant progress has been made in both theoretical research and the practical application of graph theory. The aim of this Special Issue is to collect original research articles on this subject. We welcome the submission of papers that present new results related to all aspects of graph theory, particularly symmetric phenomena. This Special Issue is a continuation of the following Special Issue: mdpi.com/si/182093 The scope of this Special Issue includes, but is not limited to, the following topics:

- Structural graph theory;
- Extremal graph theory;
- Random graph theory;
- Spectral and algebraic graph theory;
- Chemical graph theory;
- Topological graph theory;
- Graph algorithms and complexity analysis.

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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