

Special Issue

Advances in Complex Networks: Graph Theory, AI, and Data Science

Message from the Guest Editors

This Special Issue aims to bring together cutting-edge research and innovative methodologies at the intersection of graph theory, AI, and data science. Topics of interest include, but are not limited to, the following:

- Advanced theories and methods in graph theory and network science;
- AI and machine learning techniques for network analysis and prediction;
- Network representation learning and graph neural networks (GNNs);
- Link prediction, community detection, and network reconstruction in complex systems;
- Dynamic and multilayer networks modeling;
- Network robustness, resilience, and control;
- Applications in social, biological, transportation, energy, and information networks;
- Data-driven approaches to complex network inference and optimization.

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

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