

Special Issue

Advances in Complex Networks: Theory and Application

Message from the Guest Editor

The rapid development of science and technology has significantly increased the complexity and scale of modern networked systems, ranging from communication and power grids to biological and social networks. These systems are often characterized by high-dimensional interactions, stochastic disturbances, uncertainties, and dynamic environments, which pose fundamental challenges for analysis, modeling, and control. As a result, advancing the theoretical foundations and practical methodologies for complex networks has become a crucial research frontier in applied mathematics and control science.

This Special Issue of Mathematics, “Advances in Complex Networks: Theory and Application”, aims to bring together high-quality contributions that explore new theories, computational methods, and applications of complex networks. Particular emphasis will be placed on topics such as stabilization, synchronization, consensus, and robust control under uncertainty and stochastic effects. Both original research articles and comprehensive reviews are welcome. We look forward to your valuable contributions to this Special Issue.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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