Special Issue

Dynamic Analysis and Decision-Making in Complex Networks

Message from the Guest Editor

This Special Issue focuses on dynamic behaviors and decision-making mechanisms within complex networks, which are fundamental to understanding and managing real-world systems such as social networks, transportation systems, power grids, and biological networks. We invite high-quality contributions that explore theoretical models, computational methods, and applications involving dynamic processes, such as diffusion, synchronization, control, or game–theoretic interactions, in evolving or multilayer network structures. Topics of interest include, but are not limited to, the following: networked decision dynamics, emergent behaviors, stability analysis, optimal control, and data-driven modeling approaches. By bringing together cutting-edge research from mathematics, systems science, and applied domains, this Special Issue aims to promote interdisciplinary advancements in the analysis, prediction, and design of intelligent and resilient networked systems.
We look forward to your submissions.

Guest Editor

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Deadline for manuscript submissions

30 January 2026

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Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6

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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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