Special Issue

Network Reliability and Optimization of Industrial Engineering and Management

Message from the Guest Editors

We welcome the submission of research publications that delve into the mathematical foundations of network reliability, offering novel methodologies and models for assessing and improving the robustness of industrial systems. We also welcome submissions in the form of works that explore mathematical optimization techniques to enhance decision-making processes, cost efficiency, and resource allocation in industrial settings. We aim to bring together mathematical rigor and real-world relevance, fostering discussions that advance the field of industrial engineering and management, making it more resilient and effective. This Special Issue will cover a wide range of topics, including but not limited to the following:

- Network reliability analysis and modeling;
- The optimization of industrial engineering in network analysis;
- Reliability-centered maintenance;
- Resilience analysis in practical systems;
- Multi-objective optimization in industrial engineering with reliability;
- Machine Learning (ML) and optimization in industrial engineering and management;
- Sustainability and green operations in networks;
- Supply chain management in network reliability.

Guest Editors

Prof. Dr. Yi-Kuei Lin

Prof. Dr. Cheng-Ta Yeh

Prof. Dr. Ping-Chen Chang

Deadline for manuscript submissions

closed (31 October 2024)

MDPI

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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Author Benefits

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).