

Special Issue

Mathematical Optimization in Supply Chain Management

Message from the Guest Editors

The COVID-19 pandemic provided insight in the world supply chain and the weakness due to due to expected events. As a result of the global health crisis, it is critical to identify the weaknesses in the global system and provide solutions that optimize the coordination of critical supplies across the world. This special issue is interested in research that uses probabilistic modeling or artificial intelligence to optimize the global supply chain throughput or increased resilience of the current supply chain paradigm. The probabilistic modeling approach of interests but not limited to includes both deterministic and stochastic modeling paradigms as well as static and dynamic modeling approaches. Also, journal articles that use deep learning or shallow machine learning approaches to minimize supply chain disruption, maximize supply chain resilience, or optimize the interstitial link between the system of system network.

Guest Editors

Dr. Michael Hamilton

Dr. Niamat Ullah Ibne Hossain

Dr. Raed M. Jaradat

Deadline for manuscript submissions

closed (30 June 2024)



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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.

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).