Special Issue

Mathematical Models and Methods for Supply Chain and Operations Research

Message from the Guest Editors

The research on mathematical models and methods for supply chain and operations boasts a rich history in the scholarly literature, characterized by well-known basic models that have undergone continuous refinement over the years to enhance their performance across various domains such as strategic location and layout, tactical planning, operational routing and scheduling, and inventory control, among others. Over the last few decades, there has been a notable shift in focus towards addressing new challenges related to sustainability, reverse logistics, resilience amidst uncertainties, and increasingly complex systems. New mathematical methods must integrate uncertainties and aspects of Industry 4.0 to enhance their efficiency and improve responses in supply chain and operations management. These emerging issues necessitate the identification of new variables, constraints, and performance indicators, thereby driving the need for the development of novel mathematical models and methods to tackle these evolving complexities. This Special Issue aims to showcase recent works (theoretical breakthroughs, industrial cases, or reviews) on mathematical models and methods.

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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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