

Special Issue

Artificial Intelligence and Operations Research for Logistics, Supply Chain and Optimization Systems

Message from the Guest Editors

The integration of Artificial Intelligence (AI) and Operations Research (OR) is increasingly vital in tackling complex challenges in logistics, supply chain management, and optimization. Today's industries require intelligent, adaptive, and efficient solutions beyond traditional models. AI techniques such as machine learning, deep learning, and reinforcement learning are now combined with OR approaches like mathematical programming, network flows, and metaheuristics to improve planning, forecasting, routing, and resource allocation. This Special Issue invites original research on innovative models, algorithms, and real-world applications of AI and OR in logistics and supply chains. Topics include AI-enhanced optimization, predictive analytics, intelligent transportation systems, inventory control, production planning, last-mile delivery, and sustainable logistics. Hybrid methods, computational experiments, and interdisciplinary contributions with real-world impact are especially welcome.

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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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