Special Issue

Sustainable Logistics Systems: The Impacts of Artificial Intelligence and Combinatorial Optimization

Message from the Guest Editors

This Special Issue explores how AI and combinatorial optimization can enhance sustainability in logistics by improving efficiency and reducing environmental impact. Key applications include carbon-aware vehicle routing, AI-driven decision support, and digital twins, which optimize operations to cut emissions and fuel use. Metaheuristics address complex challenges like load balancing and reverse logistics, promoting circular economy practices. Green supply chain management and lifecycle carbon reduction are central themes, with AI and optimization enabling smarter inventory, waste reduction, and energy-efficient transport. These technologies help build resilient, low-carbon supply chains, aligning logistics with global sustainability goals. We invite original research on topics such as fleet electrification, AI-enhanced heuristics, predictive maintenance, circular economy integration, and real-world policy impacts. The issue highlights how technological innovation can drive eco-friendly logistics in a climate-critical era.

Guest Editors

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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