

Special Issue

Sustainable Lean Development of Supply Chain and Logistic in Smart Port

Message from the Guest Editors

This Special Issue focuses on the synergies between sustainable practices, lean principles, and smart technologies in optimizing supply chain and logistics operations within smart ports. It aims to address how digitalization (e.g., IoT, big data, AI) enables lean efficiency (waste reduction, process optimization) while advancing sustainability goals (carbon neutrality, resource efficiency) in port ecosystems. Its scope encompasses the following topics: (1) smart technologies driving lean-sustainable integration (e.g., AI for demand forecasting, blockchain for transparent green logistics); (2) lean methods for reducing environmental footprint (e.g., energy-efficient routing, circular supply chains); (3) frameworks for assessing triple-bottom-line performance (economic, environmental, social) in smart port logistics; and (4) challenges like technology adoption barriers, stakeholder coordination, and regulatory alignment. This Special Issue fills gaps by exploring their tripartite integration, investigating how smart port innovations simultaneously enable lean efficiency and sustainability.

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Message from the Editor-in-Chief

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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

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