

Special Issue

AI and Smart Technologies for Sustainable Supply Chain Design and Operations

Message from the Guest Editor

The rapid integration of artificial intelligence (AI) and smart technologies is fundamentally transforming supply chain design and operations, particularly in the context of sustainability. As firms confront intensifying environmental, social, and economic pressures, there is a critical need to re-evaluate traditional supply chain structures through the lens of data-driven intelligence. The Special Issue serves as a dedicated platform for pioneering research that bridges the gap between smart technologies and sustainable supply chain management. The scope of the Special Issue is organized around three primary dimensions: 1. We examine how AI, machine learning, and big data analytics can optimize strategic design decisions. 2. Building on this strategic foundation, we aim to explore operational applications including sustainable production, logistics, and risk management. 3. We seek to address the managerial and policy frameworks essential for governing and implementing these intelligent systems. By synthesizing methodological rigor and practical insights, this Special Issue aims to advance actionable and scalable solutions that will shape the future of sustainable supply chains.

Guest Editor

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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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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