

Special Issue

Logistics Systems at the Crossroads of Industry 4.0: Technological Challenges and Strategic Opportunities

Message from the Guest Editor

- The rapid emergence of Industry 4.0 technologies, such as the Internet of Things (IoT), artificial intelligence, cyber-physical systems, big data analytics, and blockchain, is reshaping logistics systems. These technological disruptions are not only driving efficiency and transparency across supply chains, but are also redefining the strategic role of logistics in creating resilient, adaptive, and sustainable value networks. At the same time, organizations face critical challenges: integrating heterogeneous digital solutions, ensuring data security, balancing automation with human expertise, and adapting existing infrastructures to new operational paradigms.
- This Special Issue invites contributions that explore both the disruptive and transformative potential of Industry 4.0 in logistics. Topics of interest include, but are not limited to, smart warehousing and distribution systems, real-time supply chain visibility, autonomous transport solutions, digital twins, predictive and prescriptive analytics, and sustainability-oriented innovations.

Guest Editor

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Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

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