Special Issue

Modeling and Simulation Innovations for Advanced Logistics Systems Management

Message from the Guest Editors

Modern logistics systems have become complex, highly integrated networks requiring sophisticated management strategies to ensure seamless supply chain operations. Modeling and simulation techniques are vital for optimizing logistics systems, enabling better decision-making, efficiency, and resilience in an ever-evolving market. With the rapid advancement of digital twins, predictive analytics, and agent-based modeling technologies, logistics systems managers can now proactively address challenges like demand fluctuations, route optimization, and risk management. This Special Issue will explore the latest advances in modeling and simulation for logistics systems management, emphasizing applications that enhance adaptability, sustainability, and strategic planning. We welcome contributions that examine innovative methodologies, case studies on real-world implementations, and research tackling the unique logistics modeling challenges. The goal is to provide theoretical insights and practical solutions that can help shape the future of logistics systems management.

Guest Editors

Dr. Yusheng Zhou

Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University, Hong Hum 999077, Hong Kong

Dr. Kum Fai Yuen

School of Civil and Environmental Engineering, Nanyang Technological University, Singapore 639789, Singapore

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Systems
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
systems@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Ben Clegg
Operations & Service Management Department, Aston Business School, Aston University, Birmingham B4 7ET, UK

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