



Industry 4.0 Applications and System Solutions in Supply Chain Management

Guest Editors:

Prof. Dr. Abbas Al-Refaie

Department of Industrial
Engineering, University of Jordan,
Amman 11942, Jordan

**Prof. Dr. Mohammed A.
Almomani**

Industrial Engineering, Jordan
University of Science and
Technology, Irbid 22110, Jordan

Dr. Mohannad Jreissat

Department of Industrial
Engineering, The Hashemite
University, Zarqa, Jordan

Deadline for manuscript
submissions:

closed (15 December 2022)

Message from the Guest Editors

The Special Issue aims to investigate the linkage of the theory and the practice of designing and redesigning or optimising supply chain networks models in terms of sustainability or circular economy concepts employing new innovative digital technologies of Industry 4.0. Contributions may include supply chain networks design in terms of transportation, warehouses and their operations problems, theoretical and practical frameworks, as well as the efficient implementation of Industry 4.0 concepts, tools, and technologies and their integration with SCM and value chains practices.

- automation in inter-organizational operations;
- digital twin—digital transformation;
- autonomous logistics business models;
- digital manufacturing\supply chains;
- granularization of the supply chain;
- digital waste;
- digital supply chain business models;
- sustainable production and consumption;
- circular economy systems;
- Industry 4.0 predictive maintenance;
- transportation business models;
- physical internet and traceability;
- SCM 4.0 framework;
- sustainable value chains;
- information sharing and transparency;
- cyber-physical systems;
- stochastic revenue/closed-loop supply chain





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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. *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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

Contact Us

Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)