

Special Issue

Industry 4.0: Smart Green Applications

Message from the Guest Editors

The objective of this Special Issue is to promote the usage of IT in the physical flow of materials in manufacturing value chains in order to have a clear understanding of how energy and resources are consumed at each stage, ranging from the production of raw materials and manufacturing to logistics and reverse logistics, and how to minimize the product's carbon footprint. This Special Issue aims to shift the traditional objective of Industry 4.0 from a cost-related problem to an environmental problem.

- Reducing energy consumption through data collection and analysis
- Usage of green energy in industrial processes
- Reducing used materials through production process design and resource optimization
- Circular economy: design, implementation, and current issues of reverse supply chains
- Development of sustainable products
- Improvements in product design to reduce returns and failures
- Usage of agent-based modelling and simulation (ABMS) technologies to test and visualize the impacts of green technologies applied in supply chains
- Industrial system resiliency for sustainability

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2023)



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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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