

Special Issue

Towards Industry 5.0: Sustainable, Resilient Production and Human-Centric Manufacturing

Message from the Guest Editor

This Special Issue looks at how industry is evolving beyond the automation and efficiency focus of Industry 4.0. It brings together perspectives and practical cases showing how sustainability, resilience, and human-centricity can jointly shape future manufacturing. Sustainability is treated as both an environmental responsibility and a driver of competitive and adaptable production. Human-centric manufacturing highlights skills, well-being, and human-technology collaboration. Resilient production emphasizes adaptation to uncertainty and rapid change. The Issue also explores how data, AI, and machine learning can support greener, smarter, and more agile systems, with a focus on real-world examples. By combining theory and practice, this Special Issue aims to guide researchers, industry leaders, and policymakers in building efficient, sustainable, resilient, and human-centered production systems. Topics include:

- Sustainable, human-centric, and resilient production in Industry 5.0;
- Data-driven, machine learning-, and artificial intelligence-enabled green and adaptive manufacturing;
- Business models, roadmaps, and strategies for Industry 5.0.

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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