

Special Issue

Innovative Quality Engineering for Industry 4.0 and Sustainable Development

Message from the Guest Editors

We are witnessing a transformation across industries with the rise of Industry 4.0 technologies. Quality engineering is evolving in tandem with these advancements. This intersection of Industry 4.0 and sustainability has become a focus for enhancing operational efficiency, reducing environmental impact, and meeting needs of a digitalized future. The Issue aims to bring researches that address how quality engineering can adapt and innovate in era of Industry 4.0 while promoting sustainability.

Topics of interest include: integration of quality engineering with AI, machine learning, IoT; sustainable product lifecycle management through advanced quality assurance systems; role of digital twins and predictive maintenance in enhancing product quality and reducing waste; innovations in supply chain quality management in Industry 4.0; role of green technologies in improving industrial quality standards; sustainable manufacturing practices using Industry 4.0 tools; data-driven approaches to sustainability and quality control; quality 4.0 and its impact on environmental sustainability; case studies on using Industry 4.0 for sustainable development...

Looking forward to your submissions.

Guest Editors

Dr. Peter Shi

Dr. Sohaib Mustafa

Dr. Noor Un Nisa

Dr. Qiang Wang

Deadline for manuscript submissions

closed (31 July 2025)



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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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