

## 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.

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### Guest Editors

Dr. Peter Shi

Dr. Sohaib Mustafa

Dr. Noor Un Nisa

Dr. Qiang Wang

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### Deadline for manuscript submissions

closed (31 July 2025)



## Sustainability

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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.

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### Editor-in-Chief

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