

## Special Issue

# Towards Net-Zero Industry X.0: Sustainable Governance, Smart Operations and Digital Twins

### Message from the Guest Editors

This Special Issue aims to explore how emerging technologies and governance models can accelerate the transition toward **net-zero industrial systems** in the context of **Industry X.0**. As digitalization, automation, and digital twin strategies reshape the industrial landscape, enterprises are under growing pressure to align innovation with the Sustainable Development Goals. Central to this transformation are **smart operations, digital twins, and sustainable governance frameworks**, which together enable integrated planning, lifecycle optimization, and ESG-oriented decision-making. This Special Issue seeks to compile interdisciplinary contributions from the fields of **industrial engineering, sustainability science, systems management, and information technologies**. We welcome **conceptual, empirical, and methodological papers** that address the integration of digital tools and sustainable practices in manufacturing, supply chain operations, product–service systems, and enterprise governance.

### Guest Editors

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### Deadline for manuscript submissions

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