

Special Issue

Digital Twins for Sustainable Industrial Processes

Message from the Guest Editors

This Special Issue on “Digital Twins for Sustainable Industrial Processes” seeks high-quality contributions that explore the development, application, and impact of Digital Twins in promoting sustainable industrial practices. Topics include, but are not limited to, the following:

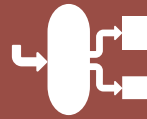
- The development of Digital Twins for the real-time monitoring and optimization of industrial processes;
- Methodologies for integrating Digital Twins with sustainability assessments, such as life cycle assessment (LCA) or life cycle sustainability assessment (LCSA);
- Applications of Digital Twins to reduce resource consumption and emissions across industries;
- Case studies demonstrating the deployment of Digital Twins in energy-intensive sectors;
- Innovations in sensor integration, data acquisition, and machine learning for Digital Twin implementation;
- Simulation and modeling techniques to support Digital Twin functionalities;
- Role of Digital Twins in achieving circular economy goals;
- Interdisciplinary approaches combining Digital Twins with IoT, Blockchain, or Artificial Intelligence for sustainable industrial applications.

Guest Editors

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Dr. Arti M. Siddhpura

Deadline for manuscript submissions

closed (20 November 2025)



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