

## Special Issue

# Digital Twin and AI-Driven Sustainability Excellence

### Message from the Guest Editors

The increased deployment of digital infrastructure has provided great opportunities to perform data-informed diagnosis, analysis, prediction, and optimization. With the help of both real-time data and historical data, AI methods, particularly machine-learning-driven methods, have revolutionized the landscape of sustainability practices. Meanwhile, digital twin technology, which creates a virtual representation of industrial entities or processes with synchronized updates from its physical entities, can provide a great testbed for virtual verification, simulation, and optimization. The convergence of DT technology and AI has emerged as a powerful force driving innovation across various industries. This symbiotic relationship has paved the way for groundbreaking advancements in sustainability practices, revolutionizing how we approach environmental conservation, resource management, and societal well-being.

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### Guest Editors

Dr. Sheng Yang

Dr. Julia Zhao

Dr. Dahai Qi

Dr. Jingchao Jiang

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### Deadline for manuscript submissions

closed (6 November 2024)



## 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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