



Digital Twin and AI-Driven Sustainability Excellence

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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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Message from the Editor-in-Chief

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