

Special Issue

Energy-Autonomous Sensing and Digital Twin for Sustainable Infrastructure

Message from the Guest Editors

This Special Issue aims to bring together recent advances in energy harvesting technologies, thermal energy conversion systems, and their integration with digital twin frameworks for sustainable monitoring applications. Topics include energy harvesting devices and systems, thermally driven energy conversion strategies, PCM-based thermal energy storage, low-power IoT sensing platforms, and data-driven digital twin models for intelligent monitoring and predictive maintenance. By bridging device-level innovations with system-level digital modeling and analytics, this issue seeks to highlight interdisciplinary approaches that improve sustainability, efficiency, and resilience in monitoring and managing infrastructure and environmental systems. We look forward to receiving your contributions.

Guest Editors

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Editor-in-Chief

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