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Special Issue: Intelligent Technologies for the Design, Operation and Maintenance of Engineering Systems and Infrastructure

Submission Deadline: 10 May 2027

Guest Editors:

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Engineering systems and infrastructure, including machines, electrical drives and power equipment, buildings, roads, water supply networks and agricultural assets, must be designed, operated and maintained under increasingly strict requirements for reliability, safety, cost efficiency and environmental impact. Artificial intelligence, machine learning, computer vision, the Internet of Things, remote sensing, digital twins and extended reality are changing how these systems are monitored, diagnosed and managed throughout their life cycle, enabling the transition from reactive and time-based practices to condition-based and predictive strategies.

This Special Issue invites original research and review articles on intelligent and data-driven methods for the design, operation and maintenance of engineering systems and infrastructure across electrical, mechanical, civil, agricultural and computer engineering. Topics of interest include, but are not limited to:

- **Condition monitoring, fault diagnosis and prognostics; predictive and condition-based maintenance; machine learning and computer vision for inspection and assessment;**
- **IoT and remote sensing for asset and environmental monitoring; digital twins and XR for operation and maintenance training; reliability, resilience and life-cycle cost analysis;**
- **Modelling and control of electrical machines and power systems; and secure, trustworthy data management in engineering systems.**

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