Special Issue

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

Message from the Guest Editors

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. Selected, substantially extended papers presented at the 35th International Conference on Organization and Technology of Maintenance (OTO 2026), held in Osijek, Croatia, on 11 December 2026, will be considered for publication. The Special Issue is equally open to submissions from the wider research community.

Guest Editors

Prof. Dr. Damir Blažević
Prof. Dr. Tomislav Keser
Prof. Dr. Časlav Livada

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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