AI in Action: Advancing Infrastructure Inspection, Monitoring, and Management for Sustainable and Resilient Performance

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Message from the Guest Editors

Dear Colleagues,

In this Special Issue of *Sustainability*, entitled "AI in Action: Advancing Infrastructure Inspection, Monitoring, and Management for Sustainable and Resilient Performance", we explore the latest advancements and applications of artificial intelligence (AI) in the realm of civil infrastructure systems. As the demand for efficient, resilient, and eco-friendly infrastructure continues to grow, AI-driven innovations are playing increasingly crucial roles in revolutionizing the ways we maintain, operate, and monitor our built environment. This Issue delves into various topics related to the management, monitoring, and inspection of civil infrastructure systems. These topics include leveraging AI-driven decision making, data analytics, and predictive modeling to improve resource management, enhance safety and reliability, and promote more efficient use of infrastructure assets across different sectors. Contributors should discuss the application of AI in diverse aspects of civil infrastructure systems, such as structural health monitoring, automated defect detection, and predictive maintenance for assets like bridges, tunnels, pipelines, and roads.

Special Issue

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Message from the Editor-in-Chief

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