

Special Issue

Smart and Safe Pavements: Advanced Techniques for Design, Inspection and Maintenance

Message from the Guest Editors

This Special Issue aims to collect innovative research contributions on advanced techniques for the design, inspection, and maintenance of Infrastructure, with a specific focus on the integration of smart systems, data-driven approaches, and sustainable materials. We encourage the submission of original studies that explore novel methods in condition assessment using BIM and I-BIM frameworks, virtual inspection procedures, and intelligent asset management platforms. We are particularly interested in contributions addressing the use of recycled or industrial by-products in pavement materials, as well as experimental and modelling approaches assessing their mechanical and environmental performance. Furthermore, studies investigating the interaction between human factors and smart infrastructure are also welcome. The goal is to provide a comprehensive perspective on the transformation of traditional infrastructure towards resilient, efficient, and intelligent systems. We invite researchers and professionals from both academia and industry to share their findings and help shape the future of smart and safe pavements.

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