

Special Issue

Advance in Road and Pavement Engineering

Message from the Guest Editors

Road and pavement engineering is rapidly evolving toward a data-driven and intelligence-enabled paradigm, fueled by breakthroughs in advanced sensing, large-scale data analytics, and artificial intelligence. Emerging technologies are enabling high-resolution, non-contact, and network-level monitoring of pavement condition and infrastructure performance. Beyond traditional inspection and evaluation, there is a growing shift toward predictive, adaptive, and autonomous decision-making in pavement maintenance and operation. This Special Issue aims to attract contributions that address cutting-edge developments in sensing technologies, data analytics, intelligent modeling, and decision-making for road infrastructure. Topics of interest include, but are not limited to, the following: Advanced sensing and non-contact pavement inspection; Multimodal data fusion and infrastructure perception; AI-driven pavement condition assessment and prediction; Digital twins and smart infrastructure systems; Intelligent maintenance, scheduling, and lifecycle optimization; Large models and agent-based approaches for infrastructure management.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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