

Special Issue

Pavement Engineering: System, Rehabilitation, and Sustainable Strategies for Long-Term Management

Message from the Guest Editors

Currently, the total amount of available road pavement is seeing its age ratio rapidly increase; it is encountering damage in forms and patterns not previously observed. In this Special Issue's representative related studies, we request pavement performance prediction research based on long-term collected network-level performance data, Life Cycle Cost Analysis (LCCA) and Life Cycle Asset Management (LCAM), real-world performance data, Quality Control (QC) and Quality Assurance (QA) considerations for road pavement performance prediction. The proposed topics related to Special Issue are as follows:

- Performance prediction studies based on the network level using performance survey data
- Life Cycle Cost Analysis (LCCA) and Life Cycle Asset Management (LCAM) based on actual performance data
- Pavement prediction studies based on Quality Control and Quality Assurance databases
- Performance modeling of flexible (asphalt) and rigid (concrete) pavements
- Material Mixed-Design and Field Performance Evaluation
- Innovative pavement management strategies
- Environmental effects of pavement performance and management
- Carbon-mitigation road pavement techniques

Guest Editors

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Deadline for manuscript submissions

closed (20 November 2025)



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About the Journal

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.

Editor-in-Chief

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