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

Guest Editors: Message from the Guest Editors Dr. Donghyuk Jung Dear Colleagues, Currently, the total amount of available road pavement is Prof. Dr. Jaejun Lee seeing its age ratio rapidly increase; it is encountering Dr. Cheolmin Baek 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, Deadline for manuscript submissions: Life Cycle Cost Analysis (LCCA) and Life Cycle Asset 30 April 2025 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: 1. Performance prediction studies based on the network level using performance survey data 2. Life Cycle Cost Analysis (LCCA) and Life Cycle Asset Management (LCAM) based on actual performance data 3. Pavement prediction studies based on Quality Control and Quality Assurance databases 4. Performance modeling of flexible (asphalt) and

- 5. Material Mixed-Design and Field Performance Evaluation
- 6. Innovative pavement management strategies

rigid (concrete) pavements

7. Environmental effects of pavement performance and management

Classue

8. Carbon-mitigation road pavement techniques



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Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy 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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