

Special Issue

Pavement Performance and Maintenance: Smart Technologies and Sustainable Practices

Message from the Guest Editors

As pavement infrastructure around the world continues to age under increasing traffic loads and environmental stresses, the need for advanced tools and strategies to monitor and maintain pavement performance has become critical. Timely and effective pavement maintenance not only extends service life, but also ensures road safety, sustainability, and cost-efficiency in transportation systems. Recent developments in materials science, sensor technologies, and data-driven modeling have opened new opportunities for accurate assessment and proactive management of pavement conditions. This Special Issue brings together cutting-edge research, practical innovations, and case studies in the field of pavement performance evaluation and maintenance. Contributions should focus on novel methods, technologies, and materials that improve the durability, monitoring, and lifecycle management of both flexible and rigid pavement structures. Submissions highlighting interdisciplinary approaches—such as non-destructive testing, AI-based condition prediction, and climate-resilient maintenance strategies—are especially encouraged.

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