

Special Issue

Advances in Materials and Technology for Sustainable and Smart Pavements

Message from the Guest Editor

Road and airport engineering research currently faces challenges in designing, constructing, and managing pavements more rationally. Innovative materials and technologies are being explored to create efficient, durable solutions with low environmental impact, reduced costs, and a focus on health and safety. In the road sector, sustainability and circular economy principles guide research on recycling, the use of marginal materials, warm and cold mixtures, bio-based asphalt, and optimized coloured surfacing. New frontiers include fast-curing PC concrete for airports, energy harvesting from roads, embedded electric vehicle charging systems, smart pavements with IT instrumentation, and AI applications in product development. Based on these premises, the goal of this Special Issue is to discuss the latest achievements in the field of road and airport pavement design and construction.

Guest Editor

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