

Special Issue

Road Traffic and Pavement Engineering toward Sustainable Development

Message from the Guest Editors

With the growing concern about climate change, major efforts are being introduced in all fields that produce greenhouse gases (GHG). In the field of road transportation, efforts are oriented to develop two main areas: sustainable roads and efficient road transportation.

With regard to sustainable roads, research is focused on the production of new long-lasting materials in pavement construction, introduction of more sustainable materials (as a result of introducing waste materials, for example), better management of pavements and maintenance and rehabilitation techniques, etc. The development of energy-harvesting pavements is another way of creating greener road infrastructures.

On the other hand, efficient road transportation of passenger and freight aims to implement road traffic policies as well as innovative mobility services and solutions aiming to reduce pollution and, at the same time, support the present road transportation demands. This objective can be developed by means of any of the smart and emerging technologies (shared mobility, cooperative driving), intelligent transportation systems (ITS), digitalization, new policies, model simulation, use of big data, etc.

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Deadline for manuscript submissions

closed (31 May 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/61878

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