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Sustainable Approaches to Improving Road Traffic Safety and Environmental Capacity

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Currently, it is necessary to deal with Road Traffic Safety in close cooperation with the environmental capacity of roads. The whole process must be seen in the holistic synergy of sustainable preparation, construction, and operation of individual elements of the transport process. From the perspective of Road Traffic Safety, the limiting factors are above all skid resistance of wearing course, pavement roughness, the presence of water on the road, and the driver's ability to make the right decision. From a geometric point of view, it is important to objectify morphology of the pavement surface, which is divided into four levels (micro-, macro-, mega-texture, and unevenness). However, it should be kept in mind that increasing safety, for example through road retarders, can lead to a deterioration of the environment of residents around city roads, thereby reducing the Pavement Environmental Capacity. Pavement Environmental Capacity represents such a state of roadway operability, assessed through friction, transverse and longitudinal unevenness, surface condition, in which the established environmental quality indicators are not exceeded.

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Message from the Editor-in-Chief

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