



Highway Models and Sustainability

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Message from the Guest Editors

Currently, modeling techniques are key to assuring sustainability during the lifecycle of roads (from preliminary design to operation). The advantages of modeling pavements to get a better understanding of their materials' behavior and the comparison of different design options in order to achieve more sustainable solutions are well known. Additionally, three-dimensional models of the roadway and roadside elements provide more realistic representations of the highway and its surroundings. These models could contain not only roadway geometry elements, but also important features related to the interaction between the route and the landscape, such as vegetation, side slopes, etc. Highway models help to create better designs, roads better integrated with their environment and better understood by drivers. All these enhancements can lead to a safety increase and a reduction of their environmental impact. The main objective of this Special Issue is to publish current advances in how highway models improve sustainability.





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Message from the Editor-in-Chief

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