



Fuzzy Logic Applications in Traffic and Transportation Engineering

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Message from the Guest Editors

Dear Colleagues,

Traffic and transportation engineering involves the application of scientific principles to the planning, design, and operation of facilities for any mode of transportation and human resource management in industry required to enable the safe, efficient, economical, and environmentally compatible movement of people and goods. Having in mind the complexity of the processes, fuzzy logic is a convenient tool for their modeling. Fuzzy logic is based on reasoning which is approximate rather than precise, which provides various possibilities for application in the transportation field, a domain characterized by constant transformations that often lead to uncertainty and imprecision. A particular advantage of fuzzy systems is the possibility to include multiple goals in calculations and, by adequate optimization algorithms, to reach a high similarity to real-world phenomena. This Special Issue is devoted to examples of fuzzy logic implementation to solve various traffic and transportation engineering problems, in all modes of transportation—road, rail, air, and waterborne transport, the postal and logistics industries, as well as telecommunications.





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Message from the Editor-in-Chief

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