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Fuzzy Logic Applications in Traffic and Transportation Engineering

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Deadline for manuscript submissions:
31 January 2025

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

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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