

# Special Issue

## Fuzzy Logic Applications in Traffic and Transportation Engineering

### Message from the Guest Editors

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.

---

### Guest Editors

Prof. Dr. Momcilo Dobrodolac

Dr. Stefan Jovcic

Dr. Marjana Čubranić-Dobrodolac

---

### Deadline for manuscript submissions

closed (31 January 2025)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.0



[mdpi.com/si/165537](https://mdpi.com/si/165537)

*Mathematics*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)

[mdpi.com/journal/  
mathematics](https://mdpi.com/journal/mathematics)





# Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.0



[mdpi.com/journal/  
mathematics](https://mdpi.com/journal/mathematics)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
School of Computer Science and Informatics, De Montfort University,  
The Gateway, Leicester LE1 9BH, UK

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

#### Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.3 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).