

# Special Issue

## Knowledge Graphs: Construction and Application

### Message from the Guest Editor

Knowledge graphs use fragmented knowledge from heterogeneous, autonomous information sources, as well as domain expertise, to represent complex and evolving relationships. Mathematics offers an opportunity to tackle challenges posed to the use of knowledge graphs. This Special Issue aims to present high-quality research exploring knowledge graphs (their construction, reasoning, application, etc.) to support existing and emerging applications and stimulate related research efforts. This Special Issue covers all aspects of knowledge graphs, including mathematical theory, algorithms, software, platforms and applications for knowledge graph construction, maintenance and inference. We invite submissions from researchers and application developers in areas related to knowledge graphs, such as knowledge engineering, broad knowledge, big data analytics, statistics, machine learning, pattern recognition, data mining, knowledge visualization, high-performance computing and the World Wide Web.

---

### Guest Editor

Dr. Guozheng Rao

College of Intelligence and Computing, Tianjin University, Tianjin  
300350, China

---

### Deadline for manuscript submissions

closed (30 June 2025)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/221123](https://mdpi.com/si/221123)

*Mathematics*  
Editorial Office  
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 2.2  
CiteScore 4.6



[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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).