

# Special Issue

## Mathematical and Instrumental Methods in the Digital Economy

### Message from the Guest Editor

Considering the genesis of world civilization in stages, it can be argued that the beginning of the XXI century is a kind of boundary between the ending life cycle of the industrial era of the development of society and the beginning cycle of the post-industrial era. The key concept of a new stage in the development of civilization is a digital economy based on trends such as scientific and technological progress, globalization of investment and information flows, innovation, big data technology, data mining, development of network structures and communications. The key characteristic of the economic structure in the digital economy is information and its processing technologies, including mathematical and instrumental methods, as a resource for any economic activity. The purpose of this Special Issue is a collection of articles devoted to the development and implementation of advanced mathematical and instrumental methods in the digital economy, based on Big Data, Data Mining, and Internet of Things technologies. Keywords:

- Digital economy
- Fuzzy model
- Big Data
- Data Mining
- Internet of things
- Collaborative economy
- Intelligent systems

---

### Guest Editor

Dr. Dmitry M. Nazarov

Department of Business Informatics, Ural State University of Economics, 620144 Yekaterinburg, Russia

---

### Deadline for manuscript submissions

closed (10 January 2021)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.0



[mdpi.com/si/52261](https://mdpi.com/si/52261)

*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 17.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).