



## Mathematical Game Theory

Guest Editor:

**Prof. Dr. Vladimir Mazalov**

Institute of Applied Mathematical  
Research of Karelian Research  
Centre, Russian Academy of  
Sciences, Petrozavodsk, 185910  
Karelia, Russia

Deadline for manuscript  
submissions:

**closed (31 August 2018)**

### Message from the Guest Editor

This Special Issue contains papers that cover the wide range of mathematical methods used in game theory, including recent advances in areas of high potential for future works, as well as new developments in classical results. It will be of interest to anyone doing theoretical research in game theory or working on one its numerous applications.

Keywords:

- Competition and cooperation
- Dynamic games
- Networking games
- Behavioral game theory
- Potential games
- Bargaining models
- Hamilton-Jacobi-Bellman equation
- Pontryagin maximum principle
- Applications in resource allocation, fishery, pollution control, networking





## Editor-in-Chief

### **Prof. Dr. Francisco Chiclana**

School of Computer Science and  
Informatics, De Montfort  
University, The Gateway,  
Leicester LE1 9BH, UK

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

**Journal Rank:** JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

## Contact Us

---

*Mathematics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/mathematics](http://mdpi.com/journal/mathematics)  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)  
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)