

# Special Issue

## Mathematical Modelling for Cooperative Communications

### Message from the Guest Editors

By gathering contributions from researchers and practitioners in communications, applied mathematics, and computer science, this Special Issue intends to present a comprehensive overview of current trends and future directions in the field. We invite submissions that present novel mathematical models, theoretical insights, and practical implementations that advance the capabilities of cooperative communication systems, aiming to foster a deeper understanding and drive further innovation in this area. Topics of interests include, but are not limited to, the following:

- Novel modulation technologies for cooperative communications.
- UAV in cooperative communications.
- System optimization of cooperative communications.
- Security in cooperative communications.
- Algorithms in cooperative communications.
- Cooperative communications for various applications.
- IRS with cooperative communications.
- Cooperative communications for interdisciplinary areas.

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### Guest Editors

Dr. Yuyang Peng

Dr. Jun Li

Dr. Han Hai

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### Deadline for manuscript submissions

closed (30 August 2025)



## Mathematics

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## 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.

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### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
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### 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).