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.

Guest Editors

Dr. Yuyang Peng

Dr. Jun Li

Dr. Han Hai

Deadline for manuscript submissions

30 August 2025

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

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Author Benefits

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).