

Special Issue

Advances in Design Theory, Combinatorial Algebraic Geometry and Applications

Message from the Guest Editors

Combinatorial algebraic geometry is a branch of mathematics studying objects that can be interpreted from a combinatorial point of view (such as matroids, polytopes, codes, or finite geometries) and also algebraically (using tools from group theory, lattice theory, or commutative algebra), and which has applications in designs, coding theory, cryptography, and number theory. This Special Issue on “Advances in Combinatorial Algebraic Geometry and Applications” invites front-line researchers and authors to submit original research and review articles on exploring new trends in design theory. It is intended as a bridge between computational issues in the treatment of curves and surfaces (from the symbolic and also numeric points of view) and a combinatorial point of view. Potential topics include but are not limited to:

- Algebraic graph theory;
- Finite geometry and designs;
- Combinatorial algebraic geometry and its applications;
- Combinatorial algebra and its applications;
- Coding theory;
- Statistical design and experiments;
- Cryptography;
- Number theory.

Guest Editors

Prof. Dr. Elena Guardo

Prof. Dr. Mario Gionfriddo

Prof. Dr. Salvatore Milici

Deadline for manuscript submissions

31 October 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.0



mdpi.com/si/128252

Mathematics
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 18.3 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).