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

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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.

Editor-in-Chief

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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).