Special Issue

Theory and Application of Algebraic Combinatorics

Message from the Guest Editors

Algebraic combinatorics has a long history but still remains a dynamic and fascinating research area. It is a multidisciplinary area due to its overlap with other branches of mathematics. This Special Issue on "Theory and Application of Algebraic Combinatorics" aims to collect papers with new results in either specific problems of algebraic combinatorics or such ones that demonstrate its relationships with other mathematical areas. Potential topics of this Special Issue include but are not limited to the following:

- Orthogonal arrays and their generalizations;
- Enumeration problems, power series, and generating functions;
- Automorphism group of finite structures and codes ;
- Finite projective space;
- Projective Hjelmslev geometries and codes over finite chain rings;
- Free associative algebras over fields with a positive characteristic;
- Non-commutative invariant theory;
- Algebraic curves over finite fields;
- Error-correcting codes, network coding, optical orthogonal codes;
- Algorithms and software tools for algebraic combinatorics, coding theory, and cryptography.

Guest Editors

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Deadline for manuscript submissions

closed (15 January 2025)

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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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