

Special Issue

Discrete Mathematics in Coding Theory

Message from the Guest Editor

Discrete mathematics, as opposed to continuous mathematics, comprises, broadly speaking, algebra, combinatorics, probability, and number theory. The history of the domain shows that all these fields in turn have contributed to coding theory. Therefore, they can all contribute to this Special Issue. More specifically, we welcome the submission of original papers in the following areas (the list is not exhaustive):

- Codes and finite geometry: space time codes, rank metric codes, AG codes; Boolean functions.
- Codes and group theory: association schemes, modular representation; completely regular codes.
- Codes and Number Theory: global codes, Gauss sums, Jacobi sums; exponential sums for explicit enumeration.
- Codes and combinatorics: block designs, maximal codes, few weights codes; Hadamard matrices.
- Algebraic coding theory: codes over rings and modules, codes as ideals and modules over rings.
- Algorithms for effective construction and efficient decoding; cryptographical protocols.

Guest Editor

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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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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).