Advances in Algebraic Coding Theory and Cryptography

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Message from the Guest Editor

Currently, algebraic codes are used not only for their original purpose for detecting and correcting errors, but also in information security systems. At the same time, a special interest in the theory of coding in cryptography is associated with the development of post-quantum cryptography. In addition, the use of error-correcting codes in information security systems has led to the creation of a special direction – code-based cryptography.

This Special Issue will focus on recent results in algebraic codes and their applications in cryptography. Topics include, but are not limited to, the following:

1. Algebraic codes in traditional communication channels;
2. Algebraic codes for quantum communication channels and data processing systems;
3. Algebraic codes in post-quantum cryptography;
4. Code-based cryptography;
5. Algebraic codes constructions;
6. Effective coding/decoding algorithms.

Special Issue

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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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