Special Issue

Discrete Math in Coding Theory

Message from the Guest Editor

Discrete mathematics, as opposed to continuous mathematics, comprises, broadly speaking, algebra, combinatorics, geometry, and number theory. From Shannon's counting arguments and Assmus–Mattson's theorem to Goppa's estimates, it is safe to say that all these fields 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 combinatorics: 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.
- Character sums: Gauss sums, exponential sums for explicit enumeration.

Guest Editor

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Deadline for manuscript submissions

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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