Special Issue

Discrete Math in Coding Theory, 2nd Edition

Message from the Guest Editor

Discrete mathematics, as opposed to continuous mathematics, broadly comprises 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, and Boolean functions;
- Codes and combinatorics: Designs, maximal codes, few-weight codes, and Hadamard matrices;
- Algebraic coding theory: Codes over rings and modules, and 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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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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