Special Issue

New Advances in Error-Correcting Codes

Message from the Guest Editors

Error-correcting coding is an indispensable part of signal processing in modern communication and computer systems. In recent years, LDPC codes and polar codes have been designed and implemented in practical applications such as wireless networks, satellite communications and memory systems. Furthermore, block codes are being explored for use in quantum computation and communication channels as well as in various watermarking techniques and cryptographic schemes. As technology advances, it is of great importance to investigate the types of error-correcting codes that may be needed in future applications. A good example of this is future wireless networks, which will require a low latency that limits the code length. This offers an opportunity to explore short block codes as alternatives to LDPC codes and polar codes, which are known to have good performance only at moderate to large code lengths. Another important example is quantum error-correcting codes that are fundamental for both enabling powerful computing systems as well as securing network communications.

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Deadline for manuscript submissions

closed (15 November 2024)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/181997

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