Special Session

Coding Theory and Applications

Coding theory was invented in the forties to protect data transmitted through a noisy communication channel. Important families of codes have been adopted in major standards in communications, such as convolutional code (GSM), Turbo code (3G, 4G), LDPC code (Wifi), and Polar code (5G). Apart from communications, the theory has also found its vast success in numerous important areas in the fields of computer science and electrical engineering such as data storage, memory and cache, cryptography, private information retrieval, and distributed computing.

The goal of this Special Session on Coding Theory and Applications is for the researchers to present their original findings and to discuss emerging problems in this exciting field of research.

Special Session Chair

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Topics
(Include but not limited to the following)
Coding theory
Coding for distributed storage systems
Coding for DNA storage
Coded caching
Coding for memory
Coded private information retrieval
Coded computation
Network coding and Index coding
Coding techniques in cryptography
Coding theory and machine learning

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