Special Issue

Advances in Modern Channel Coding

Message from the Guest Editors

This Special Issue aims to capture the essence of these advancements by presenting a collection of original research articles, comprehensive reviews, and insightful perspectives from leading experts in the field. The contributions in this Special Issue cover a wide spectrum of topics, including, but not limited to, the following:

- Turbo, LDPC, polar, and product codes;
- Coded modulation;
- Joint source-channel coding;
- Code design for short-packet communications;
- Coding for optical/wireless communications;
- Rateless codes;
- Machine learning for codes and decoder designs;
- Guess-based decoding;
- Probabilistic shaping.

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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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