

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.

Guest Editors

Prof. Dr. Yongpeng Wu

Department of Electronic Engineering, Shanghai Jiao Tong University, Shanghai, China

Dr. Peihong Yuan

Institute of Space Internet, Fudan University, Shanghai 200433, China

Deadline for manuscript submissions

closed (31 October 2025)



Entropy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

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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

Prof. Dr. Kevin H. Knuth

Department of Physics, University at Albany, 1400 Washington Avenue,
Albany, NY 12222, USA

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