Special Issue

LDPC Codes for Communication Systems

Message from the Guest Editors

This Special Issue (SI) aims to present cutting-edge research on LDPC codes and their applications in contemporary and future communication systems. Of special interest are papers exploring:

- Machine learning approaches for LDPC code construction and decoding;
- Hardware-efficient implementations for 5G/6G applications;
- Short-block-length LDPC codes for IoT and machine-type communications;
- Rate-compatible LDPC codes for adaptive transmission;
- Joint design of LDPC codes with modern modulation schemes;
- Novel protograph-based constructions;
- Quantum LDPC codes and their applications;
- Energy-efficient decoding algorithms and architectures.

Guest Editors

Prof. Dr. Zhiping Shi

National Key Laboratory of Wireless Communications, University of Electronic Science and Technology of China, Chengdu 611731, China

Prof. Dr. Guojun Han

School of Information Engineering, Guangdong University of Technology, Guangzhou 510006, China

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Entropy
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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