Information Theory and Coding for Wireless Communications

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closed (30 June 2022)

Message from the Guest Editors

The goal of this Special Issue is to present the novel applications of Shannon's theory in wireless networks.

We invite authors to submit previously unpublished contributions in any area related to applications of information theory in wireless communications including, but not limited to, the following subtopics:

- information theory in wireless systems;
- low-density parity-check (LDPC) codes;
- iterative decoding algorithms;
- channel coding techniques for 5G and satellite communications;
- multiple-input multiple-output (MIMO) channels;
- information theoretic analysis of cognitive radio systems;
- network information theory;
- wiretap channel and secrecy capacity;
- information processing theory;
- machine learning for the physical layer communications.

Special Issue

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Message from the Editor-in-Chief

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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