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Information Theory and Coding for Wireless Communications II

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Deadline for manuscript submissions:
closed (31 December 2024)

Message from the Guest Editors

We invite authors to submit previously unpublished contributions in any area related to applications of information theory in wireless communications including, but not limited to, the following subtopics: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 and polar codes;
- Iterative decoding algorithms;
- Channel coding techniques for 5G, beyond-5G, and satellite communications;
- Multiple-input multiple-output (MIMO) techniques;
- Performance analysis of land mobile satellite systems;
- Reliability analysis of Low-Earth-Orbit (LEO) satellite networks;
- Information-theoretic analysis of cognitive radio systems;
- Wiretap channel and secrecy capacity;
- Information processing theory;
- Machine learning for the physical layer communications;
- Applications of artificial intelligence in cellular and satellite networks.

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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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