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Advanced New Physical Layer Technologies for Next-Generation Wireless Communications

Guest Editors:

Prof. Dr. Lei Liu

Dr. Zhijin Qin

Dr. Chongwen Huang

Dr. Yuhao Chi

Dr. Yang Liu

Deadline for manuscript submissions:
31 October 2024

Message from the Guest Editors

Dear Colleagues,

Next-generation wireless communication networks, notably 6G, will be expected to provide global convergence and connectivity, enhanced spectral/energy/cost efficiency, extremely high reliability and low latency, better intelligence levels and security, etc. New physical layer technologies are essential to meet these requirements, including new waveforms, multiple access approaches, channel coding methods, multiple access, multi-antenna technologies, and so on.

This Special Issue (SI) seeks novel contributions from researchers that explore new physical layer technologies, innovations, and applications for next-generation wireless communications which include, but not limited to, the following:

Classical information theory
Multiuser information theory and multiple access technologies
Electromagnetic information theory
Channel coding, modulation, and waveform design
Semantic information theory and semantic-aware transceiver designs
Signal detection and channel estimation
Uses in combination with reconfigurable intelligent surfaces
Native-AI empowered architectures
Integrated sensing and communication

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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

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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Contact Us

Entropy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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