Special Issue

Advanced New Physical Layer Technologies for Next-Generation Wireless Communications

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Lei Liu

Dr. Zhijin Qin

Dr. Chongwen Huang

Dr. Yuhao Chi

Dr. Yang Liu

Deadline for manuscript submissions

closed (31 October 2024)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/192853

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

mdpi.com/journal/entropy

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/journal/entropy

About the Journal

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.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Physics, Multidisciplinary) / CiteScore - Q1 (Mathematical Physics)

MDPI