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Information Theory and 5G/6G Mobile Communications

Guest Editors:

Prof. Dr. Wonjong Noh
School of Software, Hallym University, Chuncheon-si, Gangwon-do, Korea

Prof. Sung Hoon Lim
School of Software, Hallym University, Gangwon-do, Chuncheon-si, Korea

Deadline for manuscript submissions:
closed (20 December 2021)

Message from the Guest Editors

Topics of interest include, but are not limited to the following areas:

- Information theory applied to 5G/6G communication systems;
- Capacity bounds, code designs, applications;
- AI and machine learning technology applied to 5G and 6G wireless communications to tackle optimized physical layer design, complicated decision making, network management, and resource optimization;
- New interference and resource controls for 5G/6G communication systems;
- New system architectures stemming from the combination of computing, communication, and storage;
- Integration of wireless information and energy transfer;
- Big data technology for 5G/6G wireless networks;
- Novel waveform design and multiple access methods;
- Cell-free massive MIMO for 5G/6G communication systems;
- Holographic beamforming;
- Quantum communications, networks, and architecture;
- Integration of access backhaul networks;
- Breakthrough technologies and concepts.

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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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entropy@mdpi.com
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