

Optimization and Applications of Modern Wireless Networks and Symmetry II

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Message from the Guest Editors

Dear Colleagues,

Channel-coding techniques are widely used in modern wireless communications to enhance reliability and spectral efficiency. In particular, low-density parity check (LDPC) codes and polar codes are being optimized for the next wireless standard. Moreover, over the past two decades, physical network coding was invented to improve wireless throughput, together with channel coding. This underlines the importance of modern symmetry or asymmetry wireless communications.

Due to the future demands of IoT/5G communications, this research topic welcomes research that discusses channel coding, multi-access, physical network coding, and the related communication and network techniques for IoT/5G, and aims to present new research directions in the emerging fields of research.

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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