Special Issue

Channel Coding and Measurements for 6G Wireless Communications

Message from the Guest Editor

Sixth-generation (6G) wireless communications that will surpass the capabilities of its predecessors marks an important evolution where sophisticated channel coding and measurements will play a crucial role in achieving high capacity. In this Special Issue, research areas may include (but are not limited to) the following:

- MIMO and massive MIMO channel measurements in the sub-THz range (100 GHz–300 GHz) and the THz range (300 GHz–10 THz).
- MIMO and massive MIMO communication channel modelling based on channel measurements, e.g., using stochastic geometry and clustering.
- Evolutionary and revolutionary new developments of sophisticated channel coding, including quantum error correction coding, for logical channels such as traffic and control channels.
- The application of sophisticated channel coding such as turbo coding, LDPC coding and polar coding to 6G radio and optical communications, including quantum optical communications.
- The design and application of transceiver concepts using sophisticated channel coding, including advanced coded modulation and turbo equalization schemes for 6G radio and optical communications, including quantum optical communications.

Guest Editor

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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