Special Issue

Massive MIMO for 5G

Message from the Guest Editor

Massive MIMO (or called large-scale MIMO) technologies will play a key role in the implementation of 5G systems and beyond. This Special Issue calls for recent advances related to massive MIMO technologies that cover all signal processing, energy-efficient techniques, security, and implementation aspects. Topics of interest in this Special Issue include but are not limited to the following:

- Transmitter and receiver techniques for mMIMO;
- mMIMO architectures;
- Low energy/complexity implementations (analog/digital mMIMO, low resolution DAC/ADC, strongly NL amplifiers, etc.);
- Channel estimation in mMIMO;
- Resource allocation in mMIMO;
- mMIMO techniques for positioning and source localization;
- mMIMO for energy harvesting;
- mMIMO evolution (large intelligent surfaces, reconfigurable intelligent surfaces, intelligent reflexive surfaces, etc.);
- Physical security in mMIMO;
- Proof-of-concept (PoC) and trials.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2020)

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About the Journal

Message from the Editor-in-Chief

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).