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Information-Theoretic Aspects of Non-orthogonal and Massive Access for Future Wireless Networks

Guest Editors:

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Deadline for manuscript submissions:
closed (20 December 2021)

Message from the Guest Editors

This Special Issue solicits unpublished original papers and comprehensive reviews on topics including, but not limited to:

- performance limits of NOMA and massive access;
- low-complexity transceiver design for code-domain and power-domain NOMA;
- techniques for coordinated/uncoordinated (unsourced) and grant-based/grant-free multiple access;
- message-passing algorithms and sparse graph models for efficient NOMA and massive access;
- finite blocklength and URLLC aspects in NOMA and massive access;
- machine learning and data-aided aspects in NOMA and massive access design;
- incorporating MIMO and massive MIMO with NOMA and massive access;
- methods for active user identification in massive access, including machine learning and compressed-sensing-based techniques;
- coding and modulation schemes designed for NOMA and massive access;
- leveraging new advances in wireless communications, such as reconfigurable intelligent surfaces (RIS) and orbital angular momentum (OAM), to bolster multiple access; and
- privacy and security aspects of NOMA and massive access.

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Editor-in-Chief

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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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