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Non-orthogonal Multiple-Access Techniques in Next-Generation Wireless Communications

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Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editors

Dear Colleagues:

With the rapid increase in the requirement for Internet-enabled smart devices and applications, wireless communications are confronted with various unpredictable challenges. As one of the promising types of multiple access, non-orthogonal multiple access (NOMA) has the ability to provide higher spectral efficiency and extensive connections. The aim of this Special Issue is to discuss the information theory and integration of NOMA with new physical layer techniques for future communication systems. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- The information theory in NOMA;
- Different variants of NOMA;
- Hybrid multiple access;
- Grant/semi-frant-free NOMA;
- Security provisioning in NOMA;
- Reconfigurable intelligent surface (RIS)-aided NOMA communication;
- Machine learning-based NOMA communication;
- Integrated sensing and communication (ISAC)-based NOMA;
- Enabling NOMA in backscatter communication;
- NOMA-assisted THz communication;
- Near-field NOMA communications.

We look forward to receiving your contributions.

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Special Issue

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Editor-in-Chief

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Message from the Editor-in-Chief

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