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NOMA for Integrating Sensing and Communication

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submissions:

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Message from the Guest Editor

Dear Colleagues,

With the emergence of applications and services, including fully immersive virtual/augmented reality (VR/AR), holographic telepresence, intelligent transportation, Industrial Internet of Things, and global coverage, future 6G networks are expected for unprecedented demands on Integrated Sensing and Communications (ISAC) technologies to facilitate these applications. Recent studies have demonstrated that Non-Orthogonal Multiple Access (NOMA) has potential in the performance enhancement of ISAC systems. This is attributed to NOMA's ability to enable multiple users to share the same resource blocks, including time slots, frequency bands, spreading codes, and power levels, by employing the superposition coding (SC) at the transmitter and the successive interference cancellation (SIC) at the receiver.

This Special Issue aims to promote cross-fertilization between NOMA and ISAC by bringing together researchers and industry practitioners to share their latest findings, state-of-the-art results, and new ideas on advanced and innovative solutions, optimization theory, algorithms, and applications for next-generation wireless communication networks.



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Special Issue



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Message from the Editor-in-Chief

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