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Integrated Sensing and Communications for Distributed Virtualized MIMO Networks

Guest Editor:

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Message from the Guest Editor

Integrated sensing and communication is crucial for future wireless communication networks. In this new paradigm, communication and sensing are integrated into dual-purpose devices that use specialized waveforms and hardware. This integration will enhance spectrum and hardware efficiency by combining sensing and communication at the same frequency.

This Special Issue will accept unpublished, original papers and comprehensive reviews that focus on (but are not restricted to) the following research areas:

- The performance tradeoff of distributed sensing and communications in distributed and/or cell-free MIMO.
- Low-complexity distributed algorithms for multi-user MIMO that combine sensing with communication.
- Tracking and predictive beamforming in dynamic environments for improved sensing and communication performance.
- Improved waveforms for ISAC in distributed, cell-free MIMO networks.
- Integrating sensing and communications with Reconfigurable Intelligent Surfaces.



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Special Issue



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Message from the Editor-in-Chief

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