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Advances in Millimeter-Wave Cellular Networks

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Deadline for manuscript submissions:

closed (30 November 2022)

Message from the Guest Editors

This Special Issue will report on new advancements in millimeter-wave cellular networks that include, but are not limited to, the following topics:

- Novel application scenarios and key performance indicators (KPIs)
- Transceiver and antenna design
- Massive multiple-input multiple-output (MIMO) and beamforming schemes
- Mobility management approaches with emphasis on beam steering and tracking
- Medium access control (MAC) and radio resource management (RRM) protocol design
- Cooperative communications, e.g. relaying, D2D
- Dynamic cells and cell-free architecture
- Ultra-dense (UDN) networks
- Channel and transceiver hardware impairment models
- Reconfigurable intelligent surfaces
- Artificial intelligence (AI)-based approaches for system and network optimization
- Performance analysis, optimization, and information-theoretic limits
- Demonstrators and testbeds
- Optimization methods
- Internet of Things (IoT)
- Network planning
- Green network design
- Radio frequency (RF) energy harvesting approaches











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Message from the Editor-in-Chief

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