

Special Issue

Emerging Strategies for 5G-and-beyond Networks: From Communications to Sensing and Intelligence

Message from the Guest Editors

Beyond 5G systems (B5G) will be driven by the more exigent requirements, such as ultra-low latency requirements for critical vehicle communication, the location-based services, and dense heterogeneous architectures. To address this, artificial intelligence (AI) and machine learning (ML) technologies are envisaged to play a major role to achieve a data-driven and intelligent network. The provisioning of locating and sensing capabilities in the network is expected to be another key aspect, which will enable futuristic services including immersive augmented reality, robot collaboration, and environment/earth monitoring. We welcome submissions considering (but not limited to) the topics below:

- AI and ML applications for B5G networks;
- Digital twins for B5G networks;
- Meta-surfaces implementation for B5G networks;
- Use cases and applications of sensing in a B5G networks;
- New quality of service (QoS) metrics for B5G networks;
- Network management techniques for B5G networks;
- Radio resource management (RRM) for B5G networks;
- New network architectures for B5G;
- Self-organizing network (SON) functions for B5G;
- B5G testbeds and applications.

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