

Special Issue

Advanced Massive MIMO Antenna Arrays, Metasurfaces and Reconfigurable Intelligent Surfaces for Sensing, Localization, and Wireless Communications: 2nd Edition

Message from the Guest Editors

With the complex electromagnetic environment and increasing demand on communication capacity, some different technologies have been proposed and studied to fulfill the severe requirements. Among them, the massive MIMO antenna array is a promising technology to increase the channel capacity by leveraging multiple antenna elements to receive and transmit electromagnetic waves. On the other hand, massive MIMO antenna arrays can further adapt to the time-varying environment at millimeter-wave bands via beamforming. Recently, metasurfaces and reconfigurable intelligent surfaces have been extensively studied as promising and exciting technologies for the evolved 5G and upcoming 6G wireless communications. They can manipulate the performance of the electromagnetic waves impinging on them, converting the unfavorable electromagnetic environment to a favorable one for high-quality and high-efficiency sensing, location, and wireless communications. This Special Issue is being launched with the aim of collecting recent research on advanced massive MIMO antenna arrays, metasurfaces, and reconfigurable intelligent surfaces for sensing, location, and wireless communications.

Guest Editors

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