Special Issue

Sensor-Driven Approaches to Enhancing D2D Communication Efficiency and Interference Management

Message from the Guest Editor

Future cellular networks, such as 6G architecture, are expected to provide enhanced connectivity, improved data rate transmission, privacy, and security. Resources such as artificial intelligence (AI) techniques at the network level, smart end user devices, and ultra-dense heterogeneous environments will form crucial integrated components of future networks. To operate high data rate transmission with relatively low latency, these networks are expected to utilize distributed radio access networks and frequency bands of terahertz and visible light communication spectra. However, transmission coverage is expected to be shorter than underlaying cellular systems due to the increase in signal attenuation at high frequencies. This will make networks denser with higher anticipated interference due to the increased reuse ratio of available network resources. The objective of this Special Issue is to present research articles that address the integration of intelligent end user devices and AI techniques at the network level into ultra-dense heterogenous networks to further enhance transmission efficiency and mitigate interference for advanced D2D communication architectures.

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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