

Special Issue

New Technologies in Wireless Communication System

Message from the Guest Editors

In the realm of the Internet of Things and Machine-to-Machine communications, innovations are focused on enhancing protocols, ensuring robust security, and optimizing energy efficiency in low-power wide-area networks. Millimeter Wave and Terahertz communications are pushing the boundaries of high-frequency communication, with advancements being made in antenna design, beamforming techniques, and channel modeling to support ultra-fast data rates and new applications.

Additionally, significant progress is being made in vehicular and mobile communications, particularly with Vehicle-to-Everything technologies. Satellite and UAV communications are bridging gaps in the coverage, offering innovative protocols for integration with terrestrial networks. Optical wireless communications and emerging fields like semantic and holographic communication are paving the way for high-capacity and immersive experiences. Quantum communication promises unprecedented levels of security and computational power, while Integrated Sensing and Communication technologies are creating multifunctional systems that synergize communication and sensing capabilities, marking a new era of wireless communication.

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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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