Special Issue

5G/B5G/6G Wireless Communication and Its Applications

Message from the Guest Editors

As the fabric of wireless communication continually weaves more complex patterns, the ascension from 5G to beyond 5G (B5G) and sixth-generation (6G) paradigms marks a renaissance in digital connectivity. Future applications, such as immersive virtual reality, autonomous systems, and comprehensive sensing networks, necessitate a leap in technology that surpasses the existing 5G standards. The ambition of 6G is to deliver an unparalleled, seamless experience uniting humans and the omnipresent digital ecosystem. The characteristics defining 6G encompass ubiquitous global coverage, marked improvements in spectral and energy efficiency, minimized costs, amplified intelligence, and fortified security. Transitioning to these robust networks entails the adoption of vanguard enabling technologies. Key among these are air interface and advanced transmission technologies designed to significantly boost energy and spectrum efficiency. Innovations like Terahertz bands, optical wireless communications, novel waveforms, sophisticated channel coding strategies, and refined multi-antenna systems play pivotal roles, collectively forging a path to superior network performance.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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