

Special Issue

Reconfigurable Intelligent Surface Empowered 6G Broadband Wireless Communication Technology

Message from the Guest Editors

Reconfigurable Intelligent Surface (RIS) is a highly promising technology for 6G. Unlike traditional communication systems where wireless channels are uncontrollable, RIS can actively control propagation environments wirelessly, achieving real-time manipulation of the amplitude and phase of incident electromagnetic waves. However, in broadband wireless communication scenarios, the ability of reflecting units to adjust signal amplitude and phase shift is affected by the carrier frequency, making performance optimization more difficult than that in narrowband communication systems. Therefore, the research on RIS-empowered broadband wireless communication technology for future 6G has important theoretical significance and promising application prospects. This Special Issue aims to collect research results on RIS-aided 6G wireless communication systems.

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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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