

Special Issue

B5G/6G Networks: Directions and Advances

Message from the Guest Editors

At present, based on the achievements and standardization of 5G, researchers have started to conceptualize beyond-5G (or 6G) networks with the vision of integrating sensing, communication, computation, and control functionalities. To achieve multi-dimensional functionalities, state-of-the-art wireless technologies (e.g., THz communication and millimeter-wave communications) have appeared to promote the development of B5G/6G applications. However, these technologies usually demand high computation capability and communication resources, thereby posing a significant challenge for the design and implementation of B5G/6G systems. To alleviate these challenges, promising techniques such as artificial intelligence (AI), reconfigurable intelligent surfaces (RISs), and new multi-access techniques have emerged for the design and optimization of B5G/6G networks with great promise. Thus, the convergence of these advanced techniques and network design will potentially pave the way toward a sustainable B5G/6G ecosystem...

Guest Editors

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Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

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