B5G/6G Networks: Directions and Advances

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Message from the Guest Editors

Dear Colleagues,

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…

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Message from the Editor-in-Chief

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