Energy-Efficient Wireless Solutions for 6G/B6G

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Message from the Guest Editors

Future 6G/B6G is designed to operate at multi-terabit-per-second data rates along with ultra-low latency, which can support large amounts of data transmissions. With the deployment of massive Internet of Things (IoTs) devices, the generated data will result in high energy demand; thus, energy efficiency becomes one of the important requirements of 6G/B6G. To achieve this goal, novel energy-efficient wireless solutions are required. For example, smart energy resource management is a mechanism that could be employed by future networks to dynamically optimize the balance between energy demand and energy availability. Edge computing allows some latency-sensitive computation tasks to be offloaded to the edge servers instead of being transferred to the cloud servers to shorten the communication distance.

Topics of interest include the following: Energy-efficient resource allocation; Energy-efficient architecture for future networks; Smart energy resource management; Energy efficiency in edge computing; Energy-efficient radio technologies; Energy-efficient offloading for 6G; AI-based energy-efficient multiple access technologies; Integrated sensing and communication technologies.

Special Issue

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Message from the Editor-in-Chief

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