



Novel Scheduling and Optimization Methods to Wireless Sensor Networks

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Message from the Guest Editors

Wireless sensor networks are one of the first real-world examples of pervasive computing—small, smart, and cheap sensing and computing systems that can monitor and control with unsurpassed efficiency and accuracy. They have supported a variety of military services, industry, smart house, intelligent transportation, healthcare, etc.

To provide a higher quality of experience (QoE) in various fields, the development of wireless sensor networks presents the following trends: 1) the network scale expands rapidly, and one network may contain tremendous heterogeneous sensors, each of which has different service capabilities and requirements; 2) the mobility of sensors results in a complex time-variant network structure; 3) the network environment and system requirements change with the space and time domains; 4) the network flexibility and efficiency will be greatly improved using software-based network management.

To handle these challenging characteristics imposed by wireless sensor networks, more research efforts should be conducted focusing on novel scheduling and optimization methods to ensure high-rate, low-latency, low-cost, and reliable services.





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Message from the Editor-in-Chief

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