Special Issue

Parallel, Distributed, Edge Computing in UAV Communication

Message from the Guest Editors

The UAV network is an important part of the sixth generation (6G) wireless communication system in the future. Compared with the traditional communication network based on ground infrastructure, the drone network has many unique attributes, such as low-cost, high mobility, easily deployment, widely coverage, strong viewing links, controllable mobility, etc., these features integrate communication, perception, computing, intelligence, and security. It provides new opportunities in enhancing coverage, improving spectrum efficiency, and user service quality. The UAV network is expected to provide communication, perception, computing, cache and other services for various application scenarios. However, the high mobility of drones has also brought great challenges to many aspects of the drone network application, including the intelligent network, channel modeling, flight deployment, mobility control, trajectory optimization, and optimization of drone networks, this has also become a bottleneck restricting such drone network development.

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