Special Issue

Computation Offloading for Mobile-Edge/Fog Computing

Message from the Guest Editor

Compared to traditional cloud computing models, mobile edge/fog computing models offer advantages such as real-time data processing and analysis, high security, privacy protection, strong scalability, location awareness, and low bandwidth consumption, having become a supporting platform for emerging Internet of Things (IoT) applications. Computation offloading, which transfers compute-intensive and latency-sensitive tasks from mobile or terminal devices to edge/fog node servers, is a key technology in mobile edge/fog computing and directly impacts its service quality. Although existing computation offloading solutions have made significant progress, challenges still remain as the scale of mobile edge/fog computing expands and scenarios become more complex. These challenges primarily involve the performance of computation offloading solutions in real-world scenarios; mobility; security; reliability; and heterogeneity. Furthermore, with the rapid development of artificial intelligence technologies, the integration of computation offloading with artificial intelligence provides a new approach to address these challenges.

Guest Editor

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