Special Issue

Big Data Technology in Wireless Networks

Message from the Guest Editors

When evolving to 6G networks, mobile wireless networking will transform from “connecting things” to “connecting intelligence”. To adapt to this tread, wireless devices need to not only be able to conduct efficient, robust communications but also complete complex services for smart applications. However, current wireless networks are trapped in delivering the massive number of signals while assuring their accuracy, but the limited resources block this evolution. Big data technology is a persistently developing paradigm to process the massive number of signals, which motivates the network’s functions shifting from “transmit every bit” to “what and how to transmit”. In particular, big data technology will allow intelligent devices to preprocess information according to the environment and service requirements and forward critical information more efficiently and accurately, which can then support complicated artificial intelligence tasks. However, there are still many fundamental problems that need to be solved to accommodate big data processing and communications towards a 6G network.

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