Special Issue

AIoT and Mobile Networking

Message from the Guest Editors

AIoT is the convergence of Artificial Intelligence (AI) and Internet of Things (IoT) technologies. AIoT is a technology that collects useful data by utilizing IoT infrastructure and draws insight from those data. Empowered by AI, IoT enables a variety of services across a myriad of fields from smart healthcare and personalized recommendation systems to intelligent management and large-scale surveillance systems for cities and industries including manufacturing and agriculture. Beyond the digital transformation of services, AIoT aims to make everything intelligent and autonomous. Despite a great amount of effort made regarding applying AI to IoT, AIoT faces technical challenges. Network systems must support ultra-high bandwidth, low latency, reliable connections, and flexible resource allocation to keep pace with the explosive growth of IoT traffic. Designing scalable multitenant AIoT platforms and frameworks is challenging due to AI-driven workloads and device diversity. Ensuring data privacy and eliminating security vulnerabilities in edge clouds and end devices with low computing power are also important challenges.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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