

Special Issue

IoT/AIoT-Enabled Wireless Sensor Networks: Issues and Challenges

Message from the Guest Editors

Recent significant advances in IoT/AIoT technology ecosystem such as artificial intelligence (deep learning, generative AI, Tiny ML), nano-electronic material and technology (graphene, graphene/CMOS and 2D/3D integrated circuits), cloud data analysis (AI agent), wireless communication networks (5G, 5.5G, 6G, Wi-Fi 7), personal area network (Nearlink, BLE), satellite communication network (Eutelsat Oneweb, Starlink), MEMS/NEMS sensors and standard firmware (operating system, communication protocol) will allow to implement dedicated real-time ubiquitous IoT/AIoT platforms considering cost, reliability and performance to meet the requirements of diverse applications: Industry 4.0, autonomous vehicle, metaverse, digital twin, wearable sensors (SmartCare, smartwatch), etc. More and more smart AIoT/IoT platforms will become available and will transform our daily lives, especially those of the elderly (SmartCare, Smart Home) and the Industry 4.0 ecosystem. Finally, AIoT/IoT technology is considered as one of the key technologies for smart agriculture to address climate change and preserve biodiversity.

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