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.

Guest Editors

Dr. Kunmean Hou

LIMOS, UMR 6158 CNRS, University Clermont Auvergne, 63173 Aubière, CEDEX, France

Dr. Jean-Pierre Chanet

UR TSCF, INRAE, Université Clermont Auvergne, 63178 Aubière, France

Deadline for manuscript submissions

31 March 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/239328

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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