Special Issue

Smart Micro/Nano Sensing Systems: From Flexible Devices to Autonomous IoT Nodes

Message from the Guest Editor

Recent advances in micro/nano fabrication, flexible electronics, and low-power computing are enabling compact, efficient, and autonomous operation of intelligent sensing systems. This Special Issue features the latest innovations in smart sensing platforms, spanning from material-level device design to system-level integration for real-world deployment. Topics include flexible and stretchable sensors, novel eTextile and wearable devices, energy harvesting, embedded AI for edge inference, and their integration into autonomous IoT nodes. We emphasize multidisciplinary approaches that bridge nanotechnology, circuit design, and artificial intelligence to address challenges in healthcare, environmental monitoring, wearable electronics, and smart infrastructure. We welcome submissions of original research articles, reviews, and perspectives from academia and industry. Your work will advance intelligent sensing technologies and their applications in a connected, data-driven world. We look forward to receiving your valuable contributions and hope this Special Issue becomes a platform for sharing ideas, fostering collaboration, and making advancements in smart micro/nano sensing systems.

Guest Editor

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Editor-in-Chief

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