

Special Issue

State of the Art in Intelligent Sensing and IoT Systems

Message from the Guest Editors

This Special Issue focuses on the convergence of innovative sensing modalities with robust IoT frameworks and efficient data processing. We seek to highlight research that bridges the gap between raw physical measurements and practical system implementation, prioritizing advancements in power management, optimized communication (such as LoRaWAN and LPWAN), and hardware–software co-design for next-generation sensing platforms. Suitable topics include, but are not limited to:

- The efficient implementation of machine learning and data processing on microcontrollers;
- Advances in optical sensing, including hyperspectral and multispectral imaging;
- The design and optimization of ultra-low-power (ULP) embedded systems for remote sensing;
- Low-power communication protocols and LPWAN optimization for large-scale deployments;
- Innovative embedded architectures and hardware design for complex sensing tasks;
- The development and validation of low-cost, high-performance open source hardware platforms;
- Intelligent monitoring systems for environmental and industrial applications.

We look forward to receiving your contributions.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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