

Special Issue

Sustainability of Intelligent Detection and New Sensor Technology

Message from the Guest Editors

In recent years, the rapid advancement of intelligent detection systems and sensor technologies has transformed numerous industries, including environmental monitoring, underwater exploration, intelligent agriculture, and industrial automation. These innovations enable real-time, high-precision data collection and analysis, greatly enhancing decision-making processes. The development of energy-efficient, low-cost, and environmentally friendly sensors—along with intelligent systems capable of real-time operation with minimal human intervention—is crucial for their widespread adoption. Furthermore, addressing the challenges of data privacy, security, and long-term reliability is essential to fostering trust and supporting the continued advancement of these technologies. This Special Issue aims to showcase state-of-the-art research on the sustainability of intelligent detection systems and emerging sensor technologies. We seek to explore innovations in sensor design, data processing techniques, and energy-efficient solutions, as well as examine how these technologies can contribute to a more sustainable future.

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Deadline for manuscript submissions

31 December 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.9



mdpi.com/si/264616

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