Special Issue

Innovative Sensing Technologies for Interactive Education

Message from the Guest Editors

This Special Issue welcomes cutting-edge contributions that explore the intersection of innovative sensing technologies and interactive education. More specifically, it focuses on novel sensing methodologies, hardware–software co-designs, and intelligent systems that leverage sensor data to enhance interactivity, personalization, and responsiveness in educational environments. We seek work that advances the engineering foundations of sensing for education, such as sensor fusion, edge-AI integration, noise-robust signal processing, and human-centered sensing interfaces, and clearly demonstrates how these innovations enable meaningful educational interactions. Topics of interest include but are not limited to agent-enhanced LIDSD analytics, multi-agent systems for sparse sensor data fusion, reinforcement learning agents for noise-resilient sensing, virtual tutors powered by lightweight sensor-aware agents, agent-based simulations for teacher training, ethically aligned agent design, and privacy-preserving sensing architectures for educational contexts. Both original research articles (experimental or theoretical) and comprehensive review papers are welcome.

Guest Editors

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Prof. Dr. Jin Wang
Prof. Dr. Xinlin Huang

Deadline for manuscript submissions

31 July 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/263968

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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