

IEEE AICAS 2026

Satellite Workshop

Ha Long Bay | 18 September (Friday) 2026

S2CAS: Smart Sensor Circuit and Intelligent Systems for Emerging Applications



As the rapid proliferation of smart sensors, edge AI, and Internet-of-Things (IoT) systems drives the next wave of electronic innovation, the S2CAS Workshop (Smart Sensor Circuits and Intelligent Systems for Emerging Applications) addresses the critical co-design of sensing hardware, intelligent circuits, and application-driven systems under the "Sensor + X" paradigm—covering AI, healthcare, robotics, novel materials, and environmental monitoring. This workshop uniquely bridges the gap between device materials, analog/mixed-signal circuits, AI accelerators, and real-world deployment, positioning the IEEE CASS community as the central hub for end-to-end intelligent sensing solutions.

Organizing Committee

Milin Zhang, Tsinghua Univ., China

Xiaojin Zhao, Shenzhen Univ., China

Amine Bermak, Hamad Bin Khalifa Univ., Qatar

Wei Tang, New Mexico State Univ., USA

Qing Zhang, Shenzhen Univ., China

Invited Speakers

Hong Chen, Tsinghua Univ., China

Yi (Estelle) Wang, AUMOVIO, Singapore

Jianbiao Xiao, Chip-Artisan Tech. Corp., China

Weiwei Shi, Shenzhen Univ., China

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Technical Program

2:00 – 2:10 pm	Opening Remarks
2:10 – 2:45 pm	Neuromorphic Smart Nose-on-a-Chip with On-Chip Learning for Pulmonary Diagnosis
2:45 – 3:20 pm	Towards Trustworthy In-Vehicle AI Systems: Dynamic Watermarks for Real-Time Intrusion Detection
3:20 – 3:50 pm	Coffee Break
3:50 – 4:25 pm	Ultra-Low-Power and High Accuracy AI Voice Control Solution: Co-Optimization of Algorithm, Hardware and Toolchain for Edge AI Devices
4:25 – 5:00 pm	Approximate Computing Circuit Techniques in Efficient Smart Edge Systems-from Biomedical/Vision Recognition to SAR Imaging



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