

# IEEE AICAS 2026

## Satellite Workshop

IEEE



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

|                |                                                                                                                                       |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1:30 – 1:40 pm | Opening Remarks                                                                                                                       |
| 1:40 – 2:25 pm | Neuromorphic Smart Nose-on-a-Chip with On-Chip Learning for Pulmonary Diagnosis                                                       |
| 2:25 – 3:10 pm | Towards Trustworthy In-Vehicle AI Systems: Dynamic Watermarks for Real-Time Intrusion Detection                                       |
| 3:10 – 3:30 pm | Coffee Break                                                                                                                          |
| 3:30 – 4:15 pm | Ultra-Low-Power and High Accuracy AI Voice Control Solution: Co-Optimization of Algorithm, Hardware and Toolchain for Edge AI Devices |
| 4:15 – 5:00 pm | Approximate Computing Circuit Techniques in Efficient Smart Edge Systems-from Biomedical/Vision Recognition to SAR Imaging            |



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