



International Symposium on Semiconductor Sensors, MEMS and Micro-Devices

MEMS • Microsystems • CMOS-MEMS Integration

This international symposium will be organized within the scope of SEMIMATER 2026 and aims to bring together researchers, device engineers, and industry experts working on semiconductor-based sensors, MEMS technologies, and integrated micro-device systems.

Scope: This symposium focuses on micro- and nano-scale devices that enable sensing, actuation, and signal transduction in a wide range of applications. It addresses both fundamental MEMS device physics and system-level integration, emphasizing co-design approaches that combine MEMS structures with CMOS electronics. The symposium provides a multidisciplinary platform for researchers from microelectronics, mechanical engineering, materials science, and applied physics.

Topics of interest include, but are not limited to:

- MEMS resonators and frequency control devices
- Inertial sensors, accelerometers, and gyroscopes
- Pressure sensors, chemical sensors, and environmental sensing devices
- Infrared (IR) sensors and thermal detector technologies
- Integrated microsystems and CMOS–MEMS co-design and fabrication

Applications: Research presented in this symposium is expected to contribute to a wide range of applications, including automotive and aerospace sensing, consumer electronics, industrial monitoring, medical and wearable devices, IoT systems, and smart sensing platforms.

Symposium Organization Opportunity: Researchers and industry professionals with strong expertise in MEMS devices, semiconductor sensors, or integrated microsystems are warmly invited to take an active role in the organization of this symposium. Interested participants may serve as Symposium Chair or Co-Chair, contribute to shaping the technical program, invite keynote and invited speakers, and lead focused discussions bridging device innovation and system integration.

How to Apply as Symposium Chair: Researchers who wish to organize or chair this symposium are kindly invited to contact the Conference Chair with a brief statement of interest, including their

research background, proposed focus areas within the symposium scope, and potential invited speakers. All applications will be evaluated by the SEMIMATER 2026 Organizing Committee.

Contact Information

Prof. Ersin Kayahan

Conference Chair, SEMIMATER 2026

Email: chair@semimater.org

Additional Contact: ersin.kayahan@kocaeli.edu.tr

SEMIMATER 2026 Website

<https://www.semimater.org>