

SMSI 2025

Preface by the Conference Chairmen

The conference committee, the organizers, and we as conference chairs are delighted to present an outstanding program for the SMSI 2025 Conference. The international community in the field of sensor and measurement science, which has grown over decades and regularly meets at the renowned SENSOR+TEST exhibition with its parallel conferences, has played a key role in attracting authors eager to share their latest scientific research results during the SMSI 2025 Conference. Whether presentations or posters, all contributions were first reviewed in accordance with the high-quality standards of the conference committee. The result of this effort is now reflected in these conference proceedings.



Ulrich Schmid

This year, the scientific program has been restructured around two main pillars: “Sensors and Instrumentation”, and “Measurement Science and Metrology”. A significant proportion of the contributions explore diverse areas of sensor technology, including gas sensors, MEMS technology, biosensing, optical sensor systems, acoustic sensors, temperature sensing, just to highlight the most prominent ones. At the same time, the conference also covers topics from the field of measurement science such as atmospheric measurement, magnetic and inductive measurement, revised SI, modeling, and event-based vision. Even more, both pillars also include contributions focused on real-world applications.



Michael Heizmann

To continue offering high-quality scientific contributions, an attractive side program, the opportunity to visit to the SENSOR+TEST exhibition, and to foster networking within the international sensor and measurement science community, we plan to organize future SMSI Conferences on a biannual basis.

As for the SMSI Conference in 2023, extended manuscripts from SMSI 2025 contributions will be published by AMA Association as a special issue in the Journal of Sensors and Sensor Systems (JSSS).

We would like to extend our sincere gratitude to the members of the SMSI Conference committee, the topical chairpersons of the conference pillars, the session chairs, and in particular the authors. We really appreciate their commitment in bringing up and shaping this new conference!

A handwritten signature in blue ink, appearing to read 'Ulrich Schmid', written in a cursive style.

Ulrich Schmid
General Chair

A handwritten signature in blue ink, appearing to read 'M. Heizmann', written in a cursive style.

Michael Heizmann
General Co-Chair