



IEEE INERTIAL 2025

The 12th IEEE International Symposium on Inertial Sensors & Systems
Lindau, Lake Constance, Germany || May 4-7, 2025

CALL FOR PAPERS



ORGANIZERS

General Co-Chairs

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PAPER SUBMISSION IMPORTANT DATES

Abstract Submission Deadlines

A. Submit to IEEE Sensors Letters:

September 10, 2024

B. Submit to INERTIAL 2025
proceedings:

October 1, 2024

Acceptance (A & B) Notification

November 28, 2024

Late Breaking News Submission Open

December 5, 2024

Late Breaking News Submission Deadline

January 28, 2025

Late Breaking News Acceptance Notification

February 14, 2025

Full Paper Submission Deadline

March 3, 2025

Early Registration Deadline

March 3, 2025

All accepted and presented papers
will be available at IEEE Xplore.



This exclusive international Symposium on Inertial Sensors and Systems will be held on the lakeside at beautiful Hotel Bad Sachen in Lindau, Germany. The event continues our annual tradition of informal single-track international meetings discussing the latest developments in the area of modern inertial sensors and emerging applications. INERTIAL 2025 will be a four-day event with one day of tutorials and three days of technical sessions.

TOPICS

Sensors Phenomena & Modeling

Theory, new physical principles, device-and-system-level modeling, multiphysics, deterministic/stochastic error models, predictive models

Sensor Systems & Electronics

Sensor arrays, multi-sensor units, inertial measurement units, sensor electronics, control of sensors, sensor fusion, software-defined sensors

Quantum Sensors – Photonic, Atomic & Solid-State

Theory, physical principles, device/system modeling, supporting technologies, error/predictive models, packaging, experimental methods/methodology

Manufacturing and Packaging for Improved Performance

Micro/nano fabrication techniques, new materials, vacuum/differential packaging, assembly techniques

Calibration, Compensation, and Error Modeling

Built-in diagnostics, low-cost test/evaluation, calibration of arrays, wafer-level test and evaluation, real-time compensation

Aiding Technology

Hybrid systems, gravitational, magnetic, star-trackers, vision

Applications

AR/VR, Consumer electronics, medical devices, sport and fitness, automotive, oil/gas exploration, military, aeronautical and space sensor systems with emphasis on a novel use of inertial sensors and systems

Fehlerkultur

Meaning "failure culture" in Germany tradition; this session is open for sharing stories of healthy handling of errors and mistakes in research and development, how the individual/team dealt with the issue (example of what to do, or even what not to do), and what was learned from it.

Industry

In an effort to increase and diversify industry participation, INERTIAL 2025 will now offer authors representing industry the opportunity to present with only the submission of an abstract (abstracts will not be submitted to IEEE Xplore). Submitted abstract must demonstrate technical merit – motivation, novelty, technical description, results.

Publication of Papers

Presented papers will be included in the Proceedings of IEEE INERTIAL 2025 and in IEEE Xplore pending author requirements being met. Alternatively, authors will have an option to submit a 4-page paper to a Special Issue of the IEEE Sensors Letters, and if accepted, present results at a Special session of IEEE INERTIAL 2025. Authors may submit extended versions of their conference papers to the IEEE Sensors Journal.

Please visit: 2025.ieee-inertial.org