



IEEE INERTIAL 2026

The 13th IEEE International Symposium on Inertial Sensors & Systems
Destin, Florida, USA || May 10-13, 2026

CALL FOR PAPERS

ORGANIZERS

General Co-Chairs

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PAPER SUBMISSION IMPORTANT DATES

Abstract Submission Deadlines

A. Submit to INERTIAL 2026
proceedings: October 10,
2025

B. Submit to IEEE Sensors
Letters: September 30, 2025

Acceptance (A & B) Notification

November 28, 2025

Late Breaking News Submission Open

December 5, 2025

Late Breaking News Submission Deadline

February 14, 2026

Late Breaking News Acceptance Notification

March 3, 2026

Full Paper Submission Deadline

March 17, 2026

Early Registration Deadline

March 17, 2026

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 oceanside at the beautiful Henderson Resort in Destin, Florida. The event continues our annual tradition of informal single-track international meetings discussing the latest developments in the areas of modern inertial sensors and emerging applications. INERTIAL 2026 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, multi-physics, 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, AI/machine learning

Aiding Technology

Hybrid systems, sensor fusion, gravitational, magnetic, celestial, vision

Applications

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

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 key learnings.

Industry

To increase and diversify industry participation, INERTIAL 2026 offers authors representing industry, the opportunity to present with only the submission of an abstract (abstracts will not be submitted to IEEE Xplore®). The submitted abstract must demonstrate technical merit – motivation, novelty, technical description, and results.

Publication of Papers

Presented papers will be included in the Proceedings of IEEE INERTIAL 2026 and in IEEE Xplore® pending author requirements being met. Alternatively, authors will have the 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 2026. Authors may submit extended versions of their conference papers to the IEEE Sensors Journal.

Please visit: 2026.ieee-inertial.org