



IEEE INERTIAL2024

The 11th IEEE International Symposium on Inertial Sensors & Systems
Hiroshima, Japan || March 25-28, 2024

CALL FOR PAPERS

ORGANIZERS

General Co-Chairs

Takashiro Tsukamoto

Tohoku University, Japan

Joan Giner

Bosch Sensortec, Germany

TPC Co-Chairs

Zhipeng Ma

Zhejiang University, China

Diego Emilio Serrano

Panasonic, USA

PAPER SUBMISSION IMPORTANT DATES

Abstract Submission Deadline

October 3, 2023

Acceptance Notification

November 30, 2023

Late Breaking News

Submission Open

November 30, 2023

Late Breaking News

Submission Deadline

January 9, 2024

Late Breaking News

Acceptance Notification

January 23, 2024

Full Paper Submission

Deadline

February 6, 2024

Early Registration Deadline

February 6, 2024

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



This exclusive international Symposium on Inertial Sensors and Systems will be held on Hiroshima, Japan. 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 2024 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

Atomic/Quantum Sensors

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

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

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.

Publication of Papers

Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. 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 2024. Authors may submit extended versions of their conference papers to the IEEE Sensors Journal.



Please visit: 2024.ieee-inertial.org