



IEEE INERTIAL 2023

The 10th IEEE International Symposium on Inertial Sensors & Systems
Kaua'i, Hawaii | March 28-31, 2023

CALL FOR PAPERS



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PAPER SUBMISSION IMPORTANT DATES

Abstract Submission Deadline
October 3, 2022

Acceptance Notification
November 30, 2022

**Late Breaking News
Submission Open**
November 30, 2022

**Late Breaking News
Submission Deadline**
January 9, 2023

**Late Breaking News
Acceptance Notification**
January 23, 2023

Full Paper Submission Deadline
February 6, 2023

Early Registration Deadline
February 6, 2023

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



This exclusive international Symposium on Inertial Sensors and Systems will be held on Kaua'i Hawaii, USA. 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 2023 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

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

Applications

Consumer electronics, medical devices, sport and fitness, automotive, oil/gas exploration, military, aeronautical and space sensor systems

Fehlerkultur

Sharing stories of healthy handling of errors and mistakes in research and development

In the German tradition, fehlerkultur is a critical component to the success of a company or a complex endeavor. A healthy error culture embraces the fact that errors and mistakes are a natural part of the path to success in research and development and should be openly discussed for the efficient solving of project challenges. An unhealthy fehlerkultur leads to fear or shame around errors and mistakes that can cause researchers to hide their mistakes and prolong their impact on the project or product. The Fehlerkultur session at IEEE Inertial seeks to encourage a health culture within our community around errors and mistakes through the open sharing of informative and even entertaining stories of mistakes, 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. This will be an informal session with an opportunity at the end for open discussion of best fehlerkultur practices or stories inspired by the presentations.

Please visit: 2023.ieee-inertial.org