

# INERTIAL2021

The 8<sup>th</sup> IEEE International Symposium on Inertial Sensors & Systems

Virtual Symposium | March 22-25, 2021

## CALL FOR PAPERS

### ORGANIZERS

#### Symposium Chair

Michael Larsen

Northrop Grumman, USA

#### Technical Program Chair

Ronald Polcawich

DARPA

### PAPER SUBMISSION IMPORTANT DATES

#### Abstract Submission Deadline

» October 25, 2020

#### Acceptance Notification

» December 22, 2020

#### Late News Submission

» December 28, 2020

#### Late News Submission Deadline

» January 10, 2021

#### Late News Acceptance Notification

» January 18, 2021

#### Full Paper Submission Deadline

» February 1, 2021

#### Early Registration Deadline

» February 1, 2021

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



Please visit:

[2021.ieee-inertial.org](http://2021.ieee-inertial.org)



This exclusive international Symposium on Inertial Sensors and Systems will be held Virtually. 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. The INERTIAL 2021 will be a five-day event with one day of tutorials, and four days of technical sessions.

#### 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, actuator systems, control of sensors

#### Atomic/Quantum Sensors

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

#### Low-cost Manufacturing

Wafer-level fabrication, new micro/nano techniques, new materials, built-in diagnostics

#### Advanced Packaging

Wafer-level, system-in-package, vacuum/differential packaging

#### Advanced Test & Evaluation

Low-cost test/evaluation, calibration of arrays, wafer-level test and evaluation

#### Aiding Technology

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

#### Emerging Applications

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

#### Best Failed Ideas

Ideas for new sensors, systems, components, supporting subsystems, or methods that were once exciting but in the end proved unsuccessful

#### Special Session on Bio-Inspired Sensors and Systems

Alternative navigation sensor and system approaches inspired by nature