CALL FOR PAPERS
SPECIAL SESSION ON

Opportunities for Predictive Maintenance for Urban and Advanced Air Mobility

for ICCAD 2026
July 7-9, 2026, Lisbon, Portugal

Session Co-Chairs:
- Dr. Eric Bechhoefer, GPMS International Inc, USA, eric@gpms-vt.com
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Session description:
Urban and Advanced Air Mobility (UAM/AAM) envisions a safe and efficient aviation transportation system using highly automated aircraft that will operate and transport passengers or cargo at lower altitudes within urban and suburban areas or inter-city applications.
Success in this emerging market will depend on the safe and affordable transportation of passengers and goods. Predictive maintenance can help improve safety while allowing increased operational availability while reducing unscheduled maintenance.

The topics of interest include, but are not limited to:

-Machine Learning and Artificial Intelligence based predictive maintenance strategies and algorithms
-Use of Predictive Analytics to inform air vehicle control algorithms
-Application of Predictive Analysis in support of Safety Management Systems and Air Space Deconfliction
-Advanced Analytics for Diagnostics/Prognostics of Motors Drives to achieve an On-Condition maintenance capability
-Condition Monitoring of Actuators to improve safety and reliability

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SUBMISSION
Papers must be submitted electronically for peer review by: **January 31, 2026**
https://www.iccad-conf.com/submission/

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).