



Call for Abstracts

International Aerospace Structures, Structural Dynamics, and Materials Conference

IASDM 2027 | June 21–23, 2027 | Rome, Italy

IASDM is an international professional community for aerospace structures, structural dynamics, and materials, and invites researchers, engineers, and students from academia, industry, and government to submit abstracts for its inaugural conference, IASDM 2027, www.iasdm.net.

The conference will bring together the international community to share advances in aerospace structures, structural dynamics, and materials, discuss emerging challenges, and build collaborations across disciplines. Contributions addressing theoretical, computational, and experimental developments and their engineering applications are welcome.

IASDM operates as a branch of the Council of European Aerospace Societies ([CEAS](#)). Through this relationship, IASDM participates in an established aerospace framework while maintaining a focused technical community dedicated to structures, structural dynamics, and materials.

Join us in Rome, Italy, June 21–23, 2027, for an engaging program of plenary lectures, keynote talks, technical presentations, invited sessions, in-depth technical discussions, and networking. The conference will provide a focused forum for emerging research, practical engineering advances, and new collaborations across the aerospace SDM community.

IASDM 2027 is hosted by the Italian Association of Aeronautics and Astronautics ([AIDAA](#)).



IASDM Executive Committee

Wenbin Yu, Purdue University, USA
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Yongming Liu, Arizona State University, USA
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Marco Petrolo, Politecnico di Torino, Italy





Technical Tracks and Topics

Structures: General Topics of Aerospace Structures; Machine Learning-assisted Modeling and Analysis for Aerospace Structures; Emerging and Trustworthy AI Technologies for Aerospace Structures; Multifunctional and Adaptive Structures; Advanced Manufacturing Approaches for Aerospace Structures; Impact, Fatigue, Damage and Fracture; Nonlinearities in Aerospace Structures; Structural Health Monitoring and Nondestructive Evaluation; Peridynamics; Structures in Extreme Environments; Wind Energy; Spacecraft Structures; Design Optimization of Aerospace Applications; Verification, Validation and Uncertainty Quantification for Aerospace Structures; Thin-walled and Lightweight Structures; Experimental Mechanics.

Structural Dynamics: Dynamics and Aeroelasticity of Aircraft, Rotorcraft and Spacecraft; Computational methods for Structural Dynamics and Aeroelasticity; Artificial Intelligence and Data-Driven Methods for Structural Dynamics and Aeroelasticity; Experimental Structural Dynamics and Aeroelasticity; Structural Health Monitoring and Damage Detection; Dynamic Loads, Structural Response and Control; Dynamics of Space Structures and Deployable Systems; Structural Dynamics and Aeroelasticity of Propulsion Systems.

Materials: Advanced Manufacturing; Applications of AI; Architected materials/metamaterials; Damage, Fatigue, and Fracture; Emerging Materials Technology; Integrated Computational Materials Engineering; Materials for Extreme Environments; Micromechanics and Multiscale Modeling; Multifunctional Materials; Structural Bonding and Surface Modifications; Testing and Characterization.

Abstract Submission and Policy

Authors are invited to submit a one-page abstract relevant to the technical tracks and to select the topic that best describes their research. Detailed submission instructions and templates are available at www.iasdm.net. Upon acceptance of the abstract, authors may submit an optional four-page paper. If submitted, the paper will be included in the conference proceedings and indexed in Scopus.

Important Dates and Conference Information

Call for abstracts opens: October 12, 2026
Abstract submission opens: October 28, 2026
Registration opens: November 23, 2026
Abstract submission deadline: February 15, 2027
Notification of acceptance: February 26, 2027
Early registration deadline: March 15, 2027
4-page paper submission (optional): April 15, 2027
Registration deadline: May 17, 2027

Venue and Contacts

Conference Venue: Department of Mechanical and Aerospace Engineering, Università di Roma La Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Website: www.iasdm.net

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