Call for Abstracts

International Conference on

Aerospace Structures, Structural Dynamics, and Materials

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).

CEAS
Council of European Aerospace Societies

AIDAA
ASSOCIAZIONE ITALIANA DI AERONAUTICA E ASTRONAUTICA

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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: Materials for Extreme Environments; Advanced Manufacturing; Applications of AI; Architected Materials/Metamaterials; Multifunctional Materials; Testing and Characterization; Micromechanics, Multiscale Modeling, and ICME; Damage, Fatigue, and Fracture; Sustainable and Circular Aerospace Materials.

Abstract Submission and Policy

Authors are invited to submit an abstract of up to 5,000 characters including spaces (about 750 words), entered as plain text in Microsoft CMT, relevant to the technical tracks, and to select the topic that best describes their research. Detailed submission instructions are available at www.iasdm.net. Upon acceptance of the abstract, authors may submit an optional paper. The paper length must be between four and six pages. If submitted, the paper will be included in the conference proceedings and indexed in Scopus.

Important Dates and Conference Information

Call for abstracts opens: Now open

Abstract submission opens: Now open

Registration opens: Now open

Abstract submission deadline: February 15, 2027

Notification of acceptance: February 26, 2027

Early registration deadline: March 15, 2027

Optional paper submission deadline: 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

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