



CALL FOR PAPERS

International Conference on Aerospace Systems, Technologies & Research Advancements
ASTRA 2027

February 2–4, 2027 — King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

Overview

ASTRA 2027 is an international, peer-reviewed conference bringing together researchers, engineers, and practitioners from academia, industry, and government to advance the science and engineering of next-generation aerospace systems.

The conference spans the full spectrum of aerospace research, including vehicle design, propulsion, materials, structures, space systems, and intelligent and autonomous operations. It highlights the integration of emerging technologies—such as advanced computation, data-driven methods, and adaptive systems—into the design, development, and operation of modern air and space platforms. ASTRA provides a forum for bridging foundational research with real-world aerospace applications.

Beyond the technical program, ASTRA 2027 offers a comprehensive conference experience including keynote lectures, panel discussions, tutorials, and workshops, as well as industry exhibitions and demonstrations. The conference will also feature student-focused activities and competitions, fostering engagement, innovation, and interaction across academia, industry, and emerging talent.

Submission Guidelines

- Original, unpublished work only
- Peer-reviewed submissions
- Standard IEEE conference format
- Paper length: 6 pages
- Submission system: [TBD]

Topics of Interest

Authors are invited to submit original contributions in areas including, but not limited to, next-generation aerospace vehicles and platforms such as advanced aircraft and spacecraft design, unmanned aerial systems and swarm technologies, urban air mobility, hypersonic flight, and space-based platforms; high-performance propulsion and structural systems including advanced propulsion concepts, aerodynamics and fluid–structure interaction, lightweight and high-strength materials, thermal management, and structural design and optimization; intelligent and autonomous aerospace systems encompassing learning-based control, multi-agent coordination, navigation and perception, real-time

decision-making, and integrated avionics; as well as cross-cutting and emerging areas such as digital engineering, modeling and simulation, verification and validation, human–machine interaction, sustainable aerospace technologies, and advanced computational methods.

Important Dates

- Submission Deadline: [TBD]
- Acceptance Notification: [TBD]
- Camera-Ready: [TBD]
- Conference: February 2–4, 2027

Why Participate

- Present research in a peer-reviewed international aerospace forum
- Engage with academia, industry, and government stakeholders
- Explore emerging directions in aerospace systems and technologies
- Contribute to advancing next-generation air and space platforms

Conference Committees

Patron Chair	Dr. Muhammad Al-Saggaf
Steering Committee Chair	Dr. Ali Al-Shaikhi
Honorary Chair	Dr. Charles Elachi

Conference Committee

Conference General Chair	Dr. Ayman M. Abdallah
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Contact

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