

2026 IEEE 9th International Conference on PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE

SPECIAL SESSION 01

Artificial Intelligence for Aerospace Applications

9th 2026
PRAI

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Shanghai, China

The increasing complexity of space missions has created an urgent demand for the application of artificial intelligence (AI) technologies in the aerospace sector. Specifically, integrating advanced algorithms into spacecraft operations to enhance their intelligence capabilities has emerged as a key trend. This special session aims to tackle the unique challenges of aerospace applications by focusing on AI technologies, such as intelligent perception, control, and computation. It provides a forum for industry experts to exchange ideas and develop effective solutions for improving intelligent perception and decision-making in unmanned systems for complex space missions. Through this collaborative effort, the session seeks to empower the aerospace industry to lead a new revolution in the space sector.

Related Topics

Topics of interest include, but are not limited to:

- Design of efficient AI algorithms for embedded computing platform
- Core computing hardware design for aerospace artificial intelligence applications
- Application of AI algorithm in aerospace applications
- AI-driven optimization for satellite constellation management
- Machine learning techniques for predictive maintenance of aerospace vehicles
- Advanced algorithms for autonomous navigation and exploration in space
- AI applications in real-time data analysis from space missions
- Integration of AI in spacecraft design and manufacturing processes
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SESSION CHAIR

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Publication



Accepted papers will be published in PRAI 2026 Conference Proceedings, and submitted for inclusion into IEEE Xplore and indexed by EI Compindex & Scopus.

Important Date

Final Submission Deadline	July 05, 2026
Final Notification Date	July 20, 2026
Final Registration Deadline	July 25, 2026

* The review period for submissions is typically one month.

Submission Way

Submit Online:

<https://www.easychair.org/conferences/?conf=prai2026>
(Please choose Special Session 1)

Paper Templates:

Latex:
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