IEEE NAVIGATION CONFERENCE 2026

Munich, Germany
December 9–11, 2026
ADVANCING TECHNOLOGY – FINDING THE WAY

AESS | IEEE

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AIM & SCOPE

The inaugural edition of the **IEEE Navigation Conference** (NAVICON) will be held in Munich, Germany, from December 9 to 11, 2026. The international conference of the IEEE Aerospace and Electronic Systems Society (AESS) will offer a comprehensive technical program presenting the latest developments in navigation systems and their applications. Featuring world-class oral and poster sessions, special sessions, keynotes and tutorials, the conference aims to provide a venue for researchers of different domains to exchange ideas in a technically vibrant environment.

NAVICON invites authors to submit high-quality full papers, which will undergo a rigorous peer-review process. Prospective authors should prepare a paper using the IEEE format (including supporting figures and citations). The paper should not exceed 6 pages. Submissions should be concise and include a clear problem formulation, appropriate references to prior work, and a critical evaluation of the proposed approach. All accepted articles will be published in IEEE *Xplore®*.

TECHNICAL TOPICS

The organizing committee is inviting submission of original unpublished technical papers on all topics related to navigation, including but not limited to:

» Current and emerging navigation technologies (satellite, terrestrial, sensor, infrastructure-free and augmentation systems)
» Navigation sensors and data fusion
» Advanced signal processing and machine learning for navigation
» Safety and cybersecurity of navigation systems
» Navigation in challenging environments
» Aviation, railway, maritime, space, UAV, automotive, pedestrian and scientific applications
» Experimental testbeds and demonstrations

CALL FOR CONTRIBUTIONS

Papers: Prospective authors are invited to submit high-quality papers reporting original results under the broad theme, and in all areas of navigation systems, technologies and applications. Instructions for submissions are available on the conference website.

Special Sessions: The organizers intend to address timely topics in the community and the proposals for special sessions covering the most up to date and highly relevant topics are very welcomed. Proposal details will be provided on the website.

Tutorials: The organizers intend to arrange a program of tutorials to be held prior to the conference. Proposals for tutorials and workshops that address topics related to the conference theme are welcome.

AWARDS AND INVITATION TO PUBLICATION

All papers will automatically be considered for the Best Student and Best Conference awards. A selection of best papers will be invited to be published in a special issue of the IEEE Systems Magazine of the IEEE AESS.

IMPORTANT DATES

15 April 2026
Special Session Proposals

15 May 2026
Tutorial Proposals

15 June 2026
Paper Submission Deadline

15 September 2026
Notice of Acceptance

30 October 2026
Final Paper Submission