

IFAC CAMS 2027

October 4 – 7, 2027
Šibenik, Croatia



Key Dates

Invited Session Proposals

Jan 18, 2027

Draft Paper Submission

Feb 01, 2027

Acceptance Notification

Mar 15, 2027

Final Paper Submission

May 17, 2027

Conference Dates

Oct 4-7, 2027

Background and Scope

The 17th IFAC Conference on Control Applications in Marine Systems, Robotics, and Vehicles (IFAC CAMS 2027) is organized by the Laboratory for Underwater Systems and Technologies (LABUST) at the University of Zagreb Faculty of Electrical Engineering and Computing (FER) and the Centre of Excellence MARBLE, together with the IFAC Technical Committee 7.2 on Marine Systems.

CAMS 2027 provides a premier international forum for academia and industry to present innovative developments and field-tested applications in marine automation, control, navigation, dynamic positioning, autonomous robotics, and smart ocean engineering.

Technical Scope & Topics

- **Navigation, Guidance & Dynamic Positioning:** Motion control, DP, path planning, obstacle/collision avoidance, multi-sensor navigation, acoustic SLAM.
- **Autonomous Vehicles & Marine Robotics:** Maritime Autonomous Surface Ships (MASS), USVs, AUVs, ROVs, bio-inspired robots, swarm & cooperative control.
- **Propulsion, Power & Green Maritime:** Energy management systems, hybrid/electric propulsion, decarbonization, fuel cells, hydrodynamic route optimization.
- **Offshore & Underwater Systems:** Control of floating wind turbines, ocean energy systems, subsea manipulation, pipeline inspection, tethered platforms.
- **Safety, Security & Digitalization:** Digital twins, hardware-in-the-loop (HIL) testing, fault detection (PHM), resilient control, maritime cybersecurity.

Submission Categories & Guidelines

Authors are invited to submit contributions in the following categories:

- **Regular papers:** Research contributions presenting novel theoretical or experimental findings.
- **Invited sessions:** Thematic session proposals comprising 4–6 coordinated papers on specialized topics.

All paper submissions must follow standard IFAC two-column PDF formatting guidelines and be submitted electronically via the IFAC Papercept Conference Manuscript Management System.

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Accepted papers that have been presented at an IFAC meeting will be published in the proceedings of the event using the open-access IFAC-PapersOnLine series hosted on ScienceDirect (<https://sciencedirect.com/>). To this end, the author(s) must grant exclusive publishing rights to IFAC under a Creative Commons license when they submit the final version of the paper. The copyright belongs to the authors, who have the right to share the paper in the same terms allowed by the end user license, and retain all patent, trademark and other intellectual property rights (including research data).

Venue

Amadria Park Convention Centre Šibenik

Hoteli Solaris 86, 22000, Šibenik, Croatia

Website

conferences.ifac-control.org/cams2027/

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