

Call for Contributions

Note: *On site and Online Options*

To accommodate many situations, we are offering the option for either physical presence or virtual participation. We would be delighted if all authors manage to attend in person but are aware that special circumstances are best handled by having flexible options.

Submission:

1. **Inform the Chair** with the Title of your Contribution

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=IARIA+Congress+2026+Special>

Please select Track Preference as **SENSORB26**

Special track

SENSORB26: Intelligent Sensors and Deep Learning for Robot Perception and Navigation

Chairs

Prof. Dr. Ronnier Frates Rohrich, Federal University of Technology – Paraná (UTFPR), Brazil

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Prof. Dr. André Schneider de Oliveira, Federal University of Technology – Paraná (UTFPR), Brazil

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along with

IARIA Congress 2026: The 2026 IARIA Annual Congress on Frontiers in Science, Technology, Services, and Applications

July 05 - 09, 2026 – Nice, French Riviera, France

<https://www.iaria.org/conferences2026/IARIACongress26.html>

The SENSORB special track focuses on advances in sensing technologies applied to robotics systems, with particular emphasis on mobile robots, autonomous platforms, and intelligent sensing infrastructures. The track aims to explore how sensor integration, data acquisition, and real-time processing enable robots to perceive, interact with, and adapt to complex environments. Contributions addressing sensor fusion, distributed sensing, and embedded systems for robotic applications are especially encouraged.

In addition, SENSORB highlights the growing role of sensing in robotics education, promoting innovative approaches for teaching and learning through hands-on robotic platforms and sensor-based experimentation. The track welcomes works that bridge research and education, including low-cost sensing solutions, educational robotics kits, and methodologies that foster interdisciplinary learning in engineering and STEM fields.

We invite paper submissions addressing the following topics, but are not limited to:

- Sensor systems for mobile and autonomous robots
- Sensor fusion and multi-sensor integration
- Embedded systems for sensing in robotics
- IoT-based sensing architectures for robotic applications
- Real-time data acquisition and processing

- Distributed sensing and wireless sensor networks
- AI and machine learning for sensor data interpretation
- Perception systems for navigation and mapping
- Environmental monitoring using robotic sensing
- Smart sensing for agriculture and sustainability
- Human-robot interaction through sensing
- Low-cost and open-source sensing platforms
- Educational robotics and sensor-based learning
- Robotics kits and laboratory platforms for education
- STEM education using sensors and robotics
- Remote and virtual laboratories for sensing experiments
- Interdisciplinary approaches to robotics education
- Sensor calibration and validation techniques

Important Datelines

Inform the Chairs as soon as you decide to contribute.

- Submission: May 1, 2026
- Notification: May 15, 2026
- Registration: May 25, 2026
- Camera-ready: June 5, 2026
- Confirmation of attendance (on site vs virtual): June 15, 2026

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format

- See: <http://www.iaria.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaria.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Papers Submission

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=IARIA+Congress+2026+Special>
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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaria.org/registration.html>

Contacts

Chairs

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