

Journée Robotique aérienne

TS1 / TS3 / TS5



Journée "Robotique aérienne"

TS1 / TS3 / TS5

Aerial Robotics Day:

A Joint GdR-TS1 / TS3 / TS5 Thematic Event

Call for Contributions and Attendance

Joint thematic day on aerial robotics: scientific results, technological developments, applications, and future challenges

The GdR Robotique Scientific Themes TS1, TS3, and TS5 are pleased to announce a joint thematic day dedicated to the scientific and industrial community working on aerial robotics.

Aerial robotics has undergone major developments over the last decades, from autonomous flight and perception to aerial physical interaction, cooperative aerial systems, and field deployment. However, the design, control, perception, planning, safety, and system architectures required for reliable operation in real environments remain open challenges.

This event aims to gather the French aerial robotics community, provide an overview of current activities at the national level, and foster interactions between researchers, students, and application-oriented actors around present achievements and future challenges.

Event details:

- Date: June 23, 2026
- Time: 9:30–17:00
- Venue: Polytech Sorbonne, Paris
- Address:
Campus Pierre et Marie Curie de Sorbonne Université
Polytech Sorbonne — Bâtiment Esclangon, 3rd floor, Room 321
4, Place Jussieu, 75005 Paris, France
- Format: One-day thematic event
- Agenda: To be defined. The program will be updated on the dedicated page of the GdR Robotique website.
- Link to GdR announce: <https://www.gdr-robotique.org/actualite/?id=a3a07d57cdb0fb427b4424cb94494d73>

Planned workshop highlights:

- Scientific talks by invited speakers and members of the community
- Community presentations on ongoing research, recent results, and open challenges (PhD students, postdoctoral researchers, and young researchers)
- Open discussion on the future of aerial robotics within the GdR community

Call for contributions:

We invite researchers, students, and industry professionals to propose short oral presentations related to aerial robotics.

If you would like to present during this thematic day, please send a proposed title and a short abstract of about ten lines by email to:

- ts1@gdr-robotique.org
- ts3@gdr-robotique.org
- ts5@gdr-robotique.org

Contributions may address scientific results, technological developments, experimental platforms, software, datasets, or open challenges.

Registration

Registration is **free but mandatory**.

Please register before **May 31, 2026** using the following link:

<https://evento.renater.fr/survey/journee-robotique-aerienne-ts1-ts5-styavogv>

Main topics of interest:

- Design and modeling of aerial robots
- Control, planning, and navigation for aerial systems
- Aerial physical interaction and aerial manipulation
- Perception, localization, and mapping for flying robots
- Multi-aerial-robot cooperation, coordination, and distributed autonomy
- Learning-based methods and safe autonomy for aerial robotics
- Human-drone interaction and shared autonomy
- Software architectures, benchmarking, and experimental validation

Application domains:

- Inspection and maintenance
- Construction and infrastructure monitoring
- Agriculture and environmental monitoring
- Search and rescue
- Logistics and transport
- Defense, safety, and security

Connection with ROSCon FR 2026

Please note that this thematic day is scheduled at the same time as **ROSCon FR 2026**, organized by ISIR from June 22 to June 25, 2026. The ROSCon FR program includes two days of workshops and two days of conference sessions.

We plan to share convivial moments with the workshops organized on the same day. Participants will therefore already be on site if they wish to attend the ROSCon FR conference sessions on June 24 and 25.

Why participate?

This thematic day will provide an opportunity to identify active research directions, share experimental know-how, discuss common bottlenecks, and strengthen collaborations within the aerial robotics community.

We look forward to your contributions and participation!