2026 IEEE RAS International Conference on Engineering Reliable Autonomous Systems (ERAS 2026) workshop

Reliable Autonomous Systems: From Research Lab to Real-World Deployment

28 May 2026	FER, Zagreb, Croatia	Admission: FREE*
9:00 – 14:00	In-person + Online (hybrid)	Registration required (details below)

WHO SHOULD ATTEND?

This workshop is designed for SMEs, startups, and industry practitioners who develop, integrate, or use autonomous systems and AI, and want to stay ahead of the latest developments in regulation, security, and real-world deployment:

- ✓ Companies building or adopting robotics, autonomous vehicles, drones, or AI-powered products,
- ✓ Teams dealing with functional safety, certification, or regulatory compliance,
- ✓ Decision-makers exploring technology transfer and innovation partnerships,
- ✓ Anyone interested in the practical side of autonomous systems.

WHAT YOU WILL LEARN

Seven focused sessions with concrete takeaways you can apply to your business:

- **Autonomous mobility** - achieving Level 4 autonomy in urban environments (homologation, real-world challenges, and commercial launch),
- **Maritime robotics** - reliable autonomous systems for maritime operations: autonomous surface vessels (ASVs) and underwater vehicles (AUVs/ROVs) in port logistics, infrastructure inspection, and environmental monitoring. Reliability challenges in harsh marine environments.
- **Warehouse robotics** - deploying autonomous mobile robots (AMRs) in real warehouses: SIL compliance, human-robot coexistence, warehouse management system (WMS) integration, and ROI for SME adopters.
- **Reliable systems in Healthcare** - from university lab to market: turning research into reliable healthcare systems.
- **Security of autonomous & AI systems** - adversarial attacks, model poisoning, hardware backdoors: what SMEs building autonomous products need to know. Practical defence strategies.
- **Reliable autonomous drones** - building a vertically integrated drone ecosystem: scaling production, quality assurance, and reliability challenges in commercial drone manufacturing.
- **Technology transfer & EDIH ecosystem** - how innovation hubs and competence centres help SMEs adopt autonomous systems. Test-before-invest models and cross-border collaboration opportunities.

WORKSHOP PROGRAMME

Date: 28th May 2026
On-site registration starts at: 8:30
Place: *Faculty of Electrical Engineering and Computing, University of Zagreb, FER – Grey hall*

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Block 1 – Reliable Autonomy: State of the Art and Industry Needs

Time	Session	Speaker / organization
9:00–9:10	Welcome & Introduction	Welcome by organisers. Overview of EDIH CROBOHUB++ and EDIH ARTES 5.0 missions and workshop goals.
9:10–9:30	Talk 1: Autonomous Mobility	Speaker: **Jurica Lovrek, Corporate Development Manager, Verne**
9:30–9:50	Talk 2: Maritime Robotics	Speaker: **Marco Signorini, Project Manager MUSAI, Cubit Innovation Labs**
9:50–10:10	Talk 3: Warehouse Robotics	Speaker: **Josip Ćesić, PhD, CEO, Gideon**
10:10–10:30	Talk 4: Reliable systems in Healthcare	Speaker: **Mariangela Filosa, Assistant Professor, The BioRobotics Institute (SSSA)** **Valentine Beux, TD Group**
10:30–10:40	Q&A / Wrap-up Block 1	Moderated Q&A with Block 1 speakers. Audience questions via chat (online) and floor (in-person).

Coffee Break / Pause: 20 minutes

Block 2 – Security, Industrial Drones, and Technology Transfer

Time	Item	Description
11:00–11:20	Talk 5: Security of Autonomous & AI Systems	Speaker: **Prof. Stjepan Picek, Faculty of Electrical Engineering and Computing, Univ. Of Zagreb (FER)**
11:20–11:40	Talk 6: Reliable Autonomous Drones	Speaker: **Toni Karimović, Director of Engineering, Orqa**
11:40–12:15	Talk 7: Technology Transfer & Innovation Ecosystem	How innovation hubs and competence centres help SMEs adopt autonomous systems. Test-before-invest models and cross-border collaboration opportunities. Speakers: **Prof. Hrvoje Džapo (EDIH CROBOHUB++)** **Debora Zrinscak, PhD (EDIH ARTES 5.0)**
		SME showcases: companies briefly present their autonomous systems products or challenges, providing practical industry examples and demonstrating EDIH support. **Andrea Zanda, CEO, Rombo AI** **Raffaele Ranieri, CEO, Skydrone360** **Robinson Guachi, Prensilia** **Josip Ćesić, PhD, CEO, Gideon** **Toni Karimović, Director of Engineering, Orqa**
12:15–12:40	Panel Discussion	"*What do SMEs really need to deploy reliable autonomy?*"
12:40–13:40	Networking lunch	
13:40–13:50	Closing Remarks	Summary of key takeaways. Next steps for collaboration. How to engage with EDIH CROBOHUB++ and ARTES 5.0 services.

ORGANIZED BY:

Prof. Hrvoje Džapo — Workshop Chair & Coordinator EDIH CROBOHUB++ | Faculty of Electrical Engineering and Computing (FER), University of Zagreb, Croatia

Prof. Fabio Bonsignorio — Workshop Co-chair, AIFORS Research Group | Faculty of Electrical Engineering and Computing (FER), University of Zagreb, Croatia

Debora Zrinscak, PhD — Workshop Co-chair EDIH ARTES 5.0 | ARTES 4.0 National Competence Centre, Italy

This workshop is organised within the 2026 IEEE RAS International Conference on Engineering Reliable Autonomous Systems (ERAS 2026) as a cross-border collaboration between EDIH CROBOHUB++ (Croatia) and EDIH ARTES 5.0 (Italy), with support from the AIFORS research project, Faculty of Electrical Engineering and Computing University of Zagreb (FER), the Scuola Superiore Sant'Anna (SSSA) Institute of Biorobotics, and the ARTES 4.0 National Competence Centre.

WHO CAN PARTICIPATE AND HOW

This workshop is **free of charge** for representatives of eligible small and medium-sized enterprises (SMEs) and public sector organisations (PSOs). Registration is required for all attendees. Participants who are not registered for the ERAS 2026 conference **must register for this workshop separately via the online registration form** - there is no participation fee. Registered ERAS 2026 conference attendees may participate in this workshop directly without additional registration.

Please note the following conditions:

- One participant per organisation is eligible for free registration
- Free registration covers this workshop only and it does not include access to any other sessions, tracks, or events of the ERAS 2026 conference
- Attendance is confirmed upon registration; joining instructions will be sent by e-mail ahead of the event

Please register here: Online registration link

Conference website: https://2026.ieee-eras.org/

Questions? Contact: info.crobohub@fer.hr