MAGNELIQ

Jožef Stefan Institute
Ljubljana, Slovenia

MAGNELIQ SYMPOSIUM:
Exploring Innovation in sensing technologies

For industries, companies, technology transfer offices, accelerators, innovation agencies, and tech parks

Join us and explore collaboration and commercialization opportunities for applications in robotics, automation, healthcare, and beyond!

April 10, 2025

11.00–13.30

Jožef Stefan Institute, Ljubljana, Slovenia (Main lecture hall, main building)
or online via ZOOM (link to be provided)

European Commission

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Exploring Innovation in sensing technologies

We are excited to present groundbreaking advancements in sensing technologies, developed through the MAGNELIQ project. Our research has laid the foundation for:

✅ **Fully optical miniature sensors for external magnetic and electrical fields**

✅ **Distributed force sensors for robotics** based on magneto-electric liquids

Discover how these innovations can shape future solutions in your industry!

Schedule

11.00–11.05	**Welcome and introduction** *Darja Lisjak, Project coordinator Jožef Stefan Institute*
11.05–11.30	**Novel contactless miniature fiber-optic sensors for magnetic and electrical field measurements** *Speaker: Simon Pevec, Faculty of Electrical Engineering and Computer Science, University of Maribor, Maribor*
11.30–11.55	**Novel sensing technologies for service robotics** *Speaker: Francesco Clemente, Prensilia s.r.l., Pontedera*
12.00–13.30	**Buffet lunch & networking**
13.30	**Closing of the event**

Registration

Participation is free, but registration is required.

Keywords

- Sensors,
- optical fibre,
- fiber-optic sensors,
- magneto-optic,
- electro-optic,
- miniature,
- contactless measurements,
- external field sensing,
- force sensors,
- tactile sensors,
- robotic touch,
- instrumented fingertip,
- robotics,
- sensing,
- robotic hands,
- service robotics,
- humanoid robotics,
- collaborative robotics

Opportunities

Development of novel sensor for magnetic and electric field, rotation sensors, distributed force sensors.

Breakthrough beyond MAGNELIQ

- All optical fiber sensors for magnetic and electric field measurements for Green Deal applications,
- Wireless and contactless wide-distribution force sensors for robotics

Contact information

- **Magneto-electric materials: Darja Lisjak & Alenka Mertelj**
  - ✉ darja.lisjak@ijs.si
  - ✉ alenka.mertelj@ijs.si
- **Optical-fiber sensors: Denis Đonlagić**
  - ✉ denis.donlagic@um.si
- **Force sensors & robotics: Francesco Clemente**
  - ✉ francesco@prensilia.com

Project website and social media