

Nordic Navigation Workshop

Dates:	September 17–18, 2024
Venue:	Gränsö Slott, 2 nd floor of the Castle
Organizer:	WASP Localization and Navigation Cluster
	Gustaf Hendeby (phone: +46 (0)700-89 66 68)
Hosted by:	WARA-PS Demo Week 2024

Tuesday, September 17

12:00 Lunch (the Castle)

13:00 Welcome

Gustaf Hendeby, LiU

13:20 Session I

- MARISA Platform for perception and navigation research at sea *Mårten Lager, Saab Kockums*
- Navigating with awareness introspective low-visibility navigation for field robots *Martin Magnusson, Örebro Universitet*
- Securing GNSS-based positioning Panagiotis Papadimitratos, KTH
- Overview of Robust PNT Research Activities at FOI Jouni Rantakokko, FOI
- Indoor radio positioning with Ericsson's Radio Dot System (RDS) *Clara Gómez Blázquez/Roberto Castro Sundin, Ericsson*

15:00 Coffee break

15:20 Session II

- GNSS-free Navigation
 Anja Hellander/Eric Sevonius, Saab Dynamics/LiU
- The Map to Anywhere Erik Stenborg, Zensact
- Fusing GNSS and visual-inertial navigation for seamless indoor-outdoor positioning *Joakim Rydell, FOI*
- UWB Positioning Technology Enabling Automated Drone Operations in the Edge Spaces Hafeez Chaudhary, Agilica (Belaium)
- Bat call localization
 Jens Gulin, Sony

17:00 End of Sessions

19:00 Dinner (the Castle)



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Wednesday, September 18

o8:oo Joint Session with AERO EDIH AI & Flight Workshop

LLMs and Drone Control: Unveiling Misunderstanding
 Surfaces

Claudio Augusto Silveira Lelis, ITA (Brazil)

• Deep Sets of Random Neighbors with Attention: an Architecture for Spatio-Temporal Machine Learning *Leonardo Silveira, ITA (Brazil)*

o8:40 Session III

- Matrix-Valued Measures and Wishart Statistics for Target Tracking Applications *Robin Forsling, Saab Aeronautics/LiU*
- GPS Spoofing Detection Using Local Sensors, Multivariate Predictors and Dynamic Models Antônio Augusto Fröhlich, UFSC (Brazil)

09:20 Coffee break

09:50 Session IV

- Nordic Inertial Wheel IMU sensor and North finding Håkan Carlsson, Nordic Inertial (Finland)
- An Observability-Constrained Magnetic Field-Aided Inertial Navigation System *Chuan Huang, LiU*
- **10:30** Closing remarks *Gustaf Hendeby, LiU*
- 11:00 WARA-PS Project Presentations (Magasinet)
- **12:00** Lunch (the Castle)