WARA | PUBLIC SAFETY

WASP Research Arena for Public Safety

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WASP | WALLENBERG AI, AUTONOMOUS SYSTEMS AND SOFTWARE PROGRAM

The Mission of WARA PS

Embodied AI

in public safety related scenarios

Autonomous, heterogeneous agents collaborating on complex missions

Our goal:

Improve efficiency and decision-making in complex environments



The Core Team: Linköping University (AIICS, MIT & CVL), KTH (Space Robotics Lab), Saab, Saab Naval, Combitech, Sectra Communications, Ericsson


Sweden needs cutting-edge competence
...in Embodied AI
WARA PUBLIC SAFETY
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Why Join WARA-PS?

Accelerate your research

Use existing infrastructure to **focus on research** instead of integration and logistics.

Support from **experienced research engineers.**



Realistic scenarios

Test AI, autonomy, perception, planning and human-system interaction **beyond the lab.**

Access to **real data.**



Access unique resources

Platforms, sensors, vehicles, datasets and integration support across air, land, sea, underwater, cyber and **multi-agent systems**.

Join a growing innovation ecosystem!

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What's new – a few highlights!

Human-in-the-loop studies

Setup: Core System, UTM CITY and JCF Analyzer.



UTM CITY: real-time integration and simulation



Human-in-the-loop studies



Cognitive Systems Analyzer

Saab Autonomy Framework

Remote vessel apps:

- Navigation control
- ColReg and rescue applications
- Integration into larger missions

Demo a real USV at WARA PS Demonstration week!



KTH Space Robotics Lab

Space robotics docker service

- Remote hardware access
- 2D space robot analogs
- Design in the lab digital twin
- Upload Docker experiments
- Download rosbags

https://constellation.discower.io





AILAB Field Robotics Infrastructure

Field testing robotics infrastructure:

- drones of various sizes
- ground robotics systems
- indoor and outdoor operation
- high-fidelity motion capture.

Diverse data collection with various sensors (color/RGB-D/IR cameras, LIDARs, etc.)









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Join us!
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