

# ELROB 2016

20 - 24 June 2016

Eggendorf, Austria

## Team Information

Picture of vehicle:

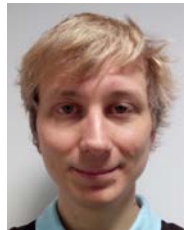


Name of vehicle:

Garm 2

PackBot

Picture of team leader:



Name of team leader:

Illing, Boris

Team Name:

Team FKIE

Team E-mail:

boris.illing@fkie.fraunhofer.de

Logo:



Website:

www.fkie.fraunhofer.de

Location:

Wachtberg, Germany

Institution/Company:

Fraunhofer Institute for Communication, Information Processing and Ergonomics FKIE

Address:

Fraunhoferstr. 20  
53343 Wachtberg

Telephone:

+49-228-9435-495

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Team Description:

### Company Description:

The Fraunhofer-Institute for Communication, Information Processing and Ergonomics (FKIE) employs currently more

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than 300 staff members, who perform studies in computer science and ergonomics with application to the diverse research areas of command & control, communications, intelligence, surveillance, and reconnaissance (C3ISR).

A distinctive aspect of the FKIE methodology is the fact that we are as accomplished in technology as we are in the so called “human factor”. As experts in ergonomics we know how to equip technologies with user interfaces that are easy to operate and control. Also unique to us is the fact that we handle the entire data processing chain from acquisition to display allowing us to work in highly specialized units or interdisciplinary teams according to project requirements.

The Cognitive Mobile Systems (CMS) department as part of the FKIE develops innovative techniques for efficient guidance of human-multi-robot systems with an emphasis on military applications. Remote-controlled mobile systems have high demands on an operator’s concentration and cognitive abilities, especially if control has to be maintained over long periods of time. In order to increase efficiency and available deployment options, CMS develops assistance functions which enable an operator to guide mobile systems on a high level of abstraction while the robots execute required low-level commands autonomously. New developments are constantly integrated in experimental systems and evaluated in cooperation with organizations, security authorities, and the German army.

Sponsors: The team is supported by Dr. Thomas Nussbaumer (armasuisse S+T / RUAG Defence).

Selection of scenario:

- Reconnoitring of structures (focus on radiological and nuclear measuring and mapping)
- Mule (shuttle between two locations)
- Movements / Convoying (transport with two vehicles)
- Search & Rescue (SAR) / MedEvac (find and drag a dummy body)
- Reconnaissance and disposal of bombs and explosive devices (EOD/IED; **for professionals only!**)

Proof of citizenship: A copy of team leader passport will do (will not be published)!

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