EnRichH 2019
Team Information
1 - 5 July 2019, Zwentendorf, Austria

Picture of vehicle:

Name of vehicle: GammaBot

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The team KIT-ROBDEKON consists of members of the Institute of Technology and Management in Construction (TMB) and the Institute for Anthropomatics and Robotics - Intelligent Process Automation and Robotics Lab (IAR-IPR) of the Karlsruhe Institute of Technology (KIT).

One of the research areas of TMB is the deconstruction and decommissioning of conventional and nuclear buildings. The focus lies on the development of new decommissioning technologies with a significant practical
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relevance for outstanding problems, including large-scale testing.

IAR-IPR has a research focus on issues in machine learning for robotics, safe human-robot collaboration, path planning and control for robots.

KIT is a major participant in the competence center ROBDEKON "Robot systems for decontamination in hostile environments" with both Institutes being part of the project.

IAR-IPR and TMB have gathered experience in the deconstruction of nuclear buildings in the project MAFRO, where environment mapping, and the planning and execution of robot based radiation measurement and decontamination of building structures was realized.

The team wants to take part in the Exploration task and Search & Rescue task of ENRICH 2019. For that we employ a differential drive mobile robot platform featuring an ultra high resolution 3D laser scanner for environmental mapping as well as a gamma camera for radiation detection and a high resolution thermal imaging camera mounted on a pan/tilt unit.

Sponsors: -

Selection of scenario:

X Exploration

□ Manipulation

X Search and Rescue

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