mec

INTERNET OF ROBOTIC THINGS

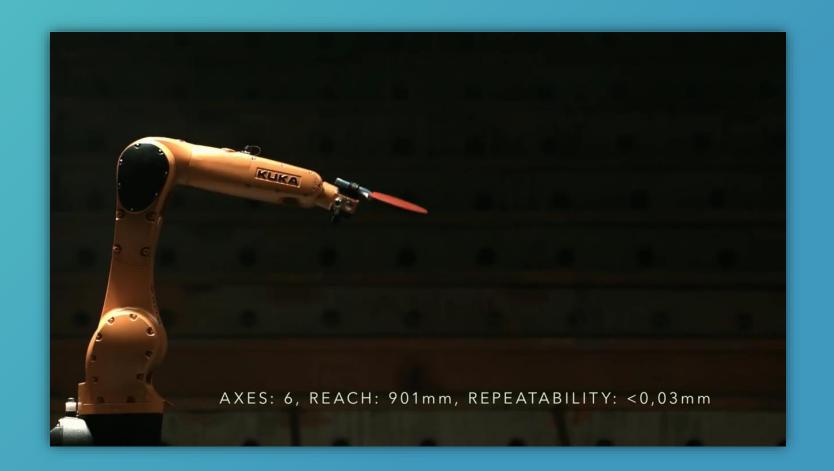
PROF. PIETER SIMOENS (RESEARCH LEAD)
KESHAV CHINTAMANI (BUSINESS DEVELOPER)













DISTRIBUTED INTELLIGENCE IN THE INTERNET OF ROBOTIC THINGS

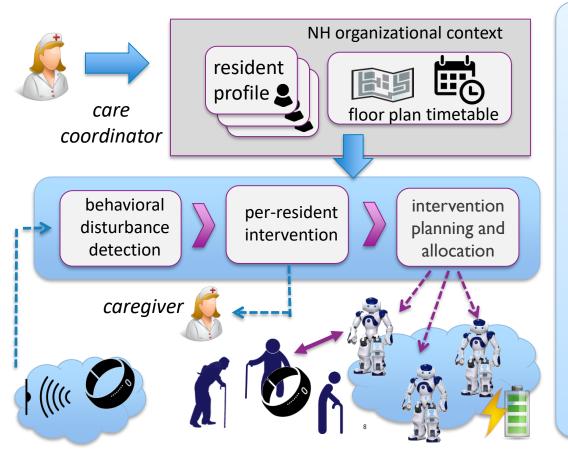
TAMING THE OPEN-ENDED, DYNAMIC WORLD





PERSONALIZED INTERVENTIONS FOR ALLEVIATING BEHAVIOR DISTURBANCES

24/7 CAREGIVER SUPPORT IN NURSING HOMES



Task generation

- Recognition of behavioral disturbances from sensors and wearables
- Ontology reasoning for personalized intervention strategy

Task planning

- Person tracking for path planning
- Activity recognition for tailored interventions

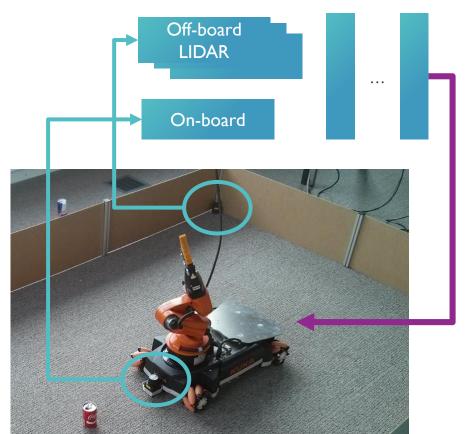
IOT SENSOR FUSION FOR ROBOT CONTROL





IOT SENSOR FUSION FOR ROBOT CONTROL

MODULAR DEEP REINFORCEMENT LEARNING





OSGI-based middleware for robots, sensors and the cloud

http://dianne.intec.ugent.be

Task execution

- Deep Q-learning
- Fusion of on-board and offboard sensors
- Modular approach