



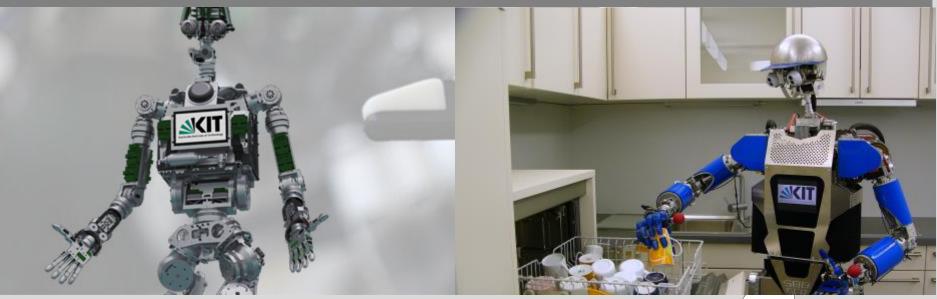
Humanoid Robotics Research @ KIT

Tamim Asfour

High Performance Humanoid Technologies (H²T)

http://www.humanoids.kit.edu http://h2t.anthropomatik.kit.edu

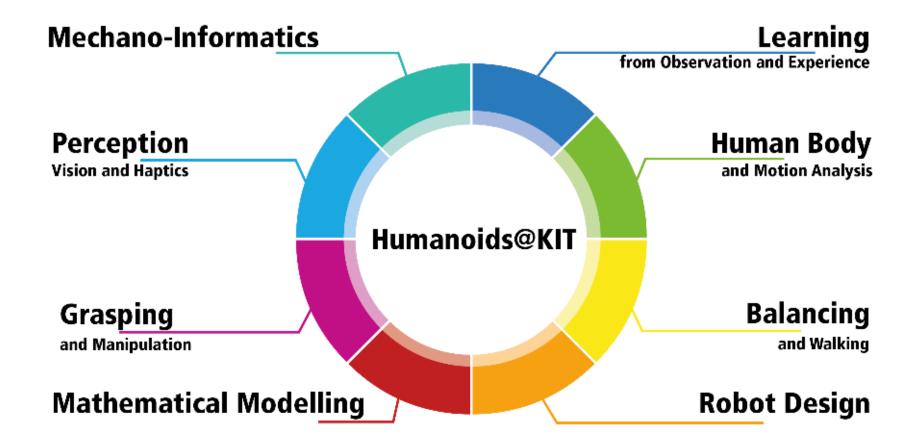
Institute for Anthropomatics and Robotics (IAR), High Performance Humanoid Technologies (H²T)













Humanoids@KIT

Karlsruhe Institute of Technology

Research Topics @ H²T

Grasping and manipulation

- Integration of vision and haptics to deal with unknown objects
- Active perception for object segmentation
- Mobile manipulation
- Vision-based localisation

Learning for human observation and experience

- Marker-based (and markerless) observation of human actions
- Learning motion primitives from human demonstration
- Motion alphabets for grasping, walking and whole-body locomotion and manipulation tasks







Praxis der Forschung in SS 2017 am H²T



Active Perception: Physically Plausible Scene Understanding

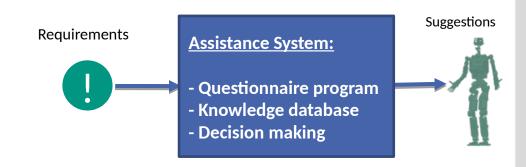
Use physical plausibility to improve scene understanding for humanoid robots



Required: Programming skills in C++

Assistance System for the Design of Humanoid Robots

Design and implement a system, which supports the design of humanoid robots



Required: Programming sk

Programming skills in C++/C or Java





1-2 weeks time of probation (Probezeit)

Candidates must spend at least one day per week in the H²T labs



Contact













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