

Computer Vision & Visual Tracking for Robotic Applications

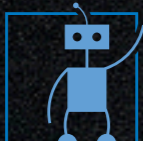
Vorbesprechung

08.02.2012

Dr. Claus Lenz

Dipl.-Inf. Sebastian Klose

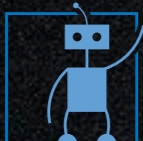
Dipl.-Inf. Philipp Heise



Robotics and
Embedded Systems

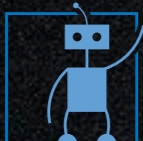
Zeitplanung

- Heute: Themenwahl
- Anfang Semester: Terminvergabe
 - 4 Termine
 - 3 Vorträge / Termin
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Organisation

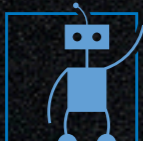
- Vortrag: 20 min. + 10min. Diskussion
- Ausarbeitung: 10-15 Seiten
- Sprache: Deutsch / Englisch
- Gliederung: 3 Wochen vor Vortrag
- Ausarbeitung: 2 Wochen vor Vortrag
- Folien: 1 Woche vor Vortrag



Themen

Dr. Claus Lenz

- Survey: Kinect and its applications in the robotics domain
- Monocular 6D realtime face tracking
- Comparing bag of words approaches
- Visual servoing using mutual information

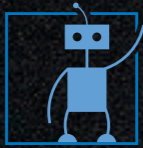


Robotics and
Embedded Systems

Themen

Sebastian Klose

- Survey: Quadrocopter applications
- Overview of RGBD-SLAM approaches
- Sparsity in keyframe-based visual SLAM
- Comparison of binary feature descriptors

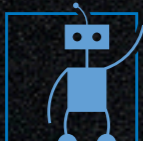


Robotics and
Embedded Systems

Themen

Philipp Heise

- The TLD tracking algorithm (predator tracking)
- Inferring human poses from a single depth image
- Realtime 3D reconstruction and localization
- Geodesic image and video editing



Robotics and
Embedded Systems