



Einladung zum Vortrag

Mobile Robotics, Lab, Sea and Road

von

Prof. John Folkesson KTH Royal Institute of Technology Stockholm

TERMIN:Dienstag, 23. Mai 2017, 11:00 Uhr (s.t)ORT:EI 4, Altes EI, 2. Stock, Gußhausstrasse 27-29, 1040 WienABSTRACT

John Folkesson will present his research on mobile robotics. This will include indoor perception, underwater navigation of AUV's, and autonomous driving decision making. The STRANDS project has produce a unique robotic system capable of learning models of objects during regular patrolling of an office. These objects are found by change detection and supporting planes. The system can then recognize and reason about these objects as it continues to re-observe them over long term operation. Underwater navigation without DVL is very challenging. Results on localization in ocean environments using only a forward looking sonar are unique in that they show actual control decisions being made autonomously to actively localize in the face of large irregular currents. Decisions in autonomous driving are difficult due to having to estimate the driver intentions based on noisy and incomplete data and due to the fact that the vehicles do not act independently. Some results addressing these issues will be presented.

BIOGRAPHICAL INFORMATION

John Folkesson is Associate Professor of Robotics at KTH in Stockholm. Before returning to KTH in 2010 he spent 5 years working on underwater robotics at the Massachusetts Institute of Technology in USA. Before that he earned his PhD and Masters degrees from KTH. His main area of research is mobile robot navigation and perception.

WEITERE INFORMATIONEN

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