


KnowRob: Knowledge processing for robots

List of Publications


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[J2] Markus Waibel, Michael Beetz, Raffaello D’Andrea, Rob Janssen, Moritz Tenorth, Javier Civera, Jos Elfring, Dorian Gálvez-López, Kai Häussermann, J.M.M. Montiel, Alexander Perzylo, Björn Schießle, Oliver Zweigle and René van de Molengraft,
RoboEarth - A World Wide Web for Robots,

[C1] Lars Kunze, Mihai Emanuel Dolha, Emitza Guzman and Michael Beetz,
Simulation-based Temporal Projection of Everyday Robot Object Manipulation,
Yolum, Tumer, Stone and Sonenberg(Eds.), Proc. of the 10th Int. Conf. on Autonomous Agents and Multiagent Systems (AAMAS 2011), Taipei, Taiwan, IFAAMAS, May, 2–6 2011.

[C2] Lars Kunze, Tobias Roehm and Michael Beetz,
Towards Semantic Robot Description Languages,

[C3] Daniel Nyga, Moritz Tenorth and Michael Beetz,
How-Models of Human Reaching Movements in the Context of Everyday Manipulation Activities,

[C4] Nico Blodow, Zoltan-Csaba Marton, Dejan Pangercic, Thomas Rühr, Moritz Tenorth and Michael Beetz,
Inferring Generalized Pick-and-Place Tasks from Pointing Gestures,

[C5] Lars Kunze, Mihai Emanuel Dolha and Michael Beetz,
Logic Programming with Simulation-based Temporal Projection for Everyday Robot Object Manipulation,

[C6] Michael Beetz, Ulrich Klank, Ingo Kresse, Alexis Maldonado, Lorenz Mösenlechner, Dejan Pangercic, Thomas Rühr and Moritz Tenorth,
Robotic Roommates Making Pancakes,

[C7] Manabu Saito, Haseru Chen, Kei Okada, Masayuki Inaba, Lars Kunze and Michael Beetz,
Semantic Object Search in Large-scale Indoor Environments,

[PhD1] Moritz Tenorth,
Knowledge Processing for Autonomous Robots,
Technische Universität München, 2011.
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[J1] Michael Beetz, Moritz Tenorth, Dominik Jain and Jan Bandouch,  
Towards Automated Models of Activities of Daily Life, 

[J2] Michael Beetz, Dominik Jain, Lorenz Mösenlechner and Moritz Tenorth,  
Towards Performing Everyday Manipulation Activities,  

[J3] Moritz Tenorth, Dominik Jain and Michael Beetz,  
Knowledge Representation for Cognitive Robots,  

[C1] Moritz Tenorth, Daniel Nyga and Michael Beetz,  
Understanding and Executing Instructions for Everyday Manipulation Tasks from the World Wide Web,  
IEEE International Conference on Robotics and Automation (ICRA), Anchorage, AK, USA, 1486-1491, May 3-8 2010.

[C2] Moritz Tenorth and Michael Beetz,  
Priming Transformational Planning with Observations of Human Activities,  

[C3] Dejan Pangercic, Moritz Tenorth, Dominik Jain and Michael Beetz,  
Combining Perception and Knowledge Processing for Everyday Manipulation,  

[C4] Michael Beetz, Lorenz Mösenlechner and Moritz Tenorth,  
CRAM – A Cognitive Robot Abstract Machine for Everyday Manipulation in Human Environments,  

[C5] Lars Kunze, Moritz Tenorth and Michael Beetz,  
Putting People’s Common Sense into Knowledge Bases of Household Robots,  
33rd Annual German Conference on Artificial Intelligence (KI 2010), Karlsruhe, Germany, Springer, 151-159, September 21-24 2010.

[C6] Moritz Tenorth, Lars Kunze, Dominik Jain and Michael Beetz,  
KNOWROB-MAP – Knowledge-Linked Semantic Object Maps,  

[R1] Moritz Tenorth and Michael Beetz,  
Deliverable D5.2: The RoboEarth Language – Language Specification,  
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[C1] Dejan Pangeric, Rok Tavcar, Moritz Tenorth and Michael Beetz,
Visual Scene Detection and Interpretation using Encyclopedic Knowledge and Formal Description Logic,
Proceedings of the International Conference on Advanced Robotics (ICAR), Munich, Germany, June 22 - 26 2009.

[C2] Moritz Tenorth and Michael Beetz,
KnowRob – Knowledge Processing for Autonomous Personal Robots,

[C3] Moritz Tenorth, Jan Bandouch and Michael Beetz,
The TUM Kitchen Data Set of Everyday Manipulation Activities for Motion Tracking and Action Recognition,

[C4] Michael Beetz, Jan Bandouch, Dominik Jain and Moritz Tenorth,
Towards Automated Models of Activities of Daily Life,
First International Symposium on Quality of Life Technology – Intelligent Systems for Better Living, Pittsburgh, Pennsylvania USA, 2009.

[R1] Moritz Tenorth, Daniel Nyga and Michael Beetz,
Understanding and Executing Instructions for Everyday Manipulation Tasks from the World Wide Web,
IAS group, Technische Universität München, Fakultät für Informatik, 2009.

[C1] Michael Beetz, Freek Stulp, Bernd Radig, Jan Bandouch, Nico Blodow, Mihai Dolha, Andreas Fedrizzi, Dominik Jain, Uli Klank, Ingo Kresse, Alexis Maldonado, Zoltan Marton, Lorenz Mösenlechner, Federico Ruiz, Radu Bogdan Rusu and Moritz Tenorth,
The Assistive Kitchen – A Demonstration Scenario for Cognitive Technical Systems,
IEEE 17th International Symposium on Robot and Human Interactive Communication (RO-MAN), Muenchen, Germany, 1-8, 2008.

[C2] Moritz Tenorth and Michael Beetz,
Towards Practical and Grounded Knowledge Representation Systems for Autonomous Household Robots,