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[J1] Moritz Tenorth, Alexander Clifford Perzylo, Reinhard Lafrenz and Michael Beetz,  
Representation and Exchange of Knowledge about Actions, Objects, and Environments in the RoboEarth Framework,  

[C1] Charmayne Mary Lee Hughes, Moritz Tenorth, Marta Bienkiewicz and Joachim Hermisdörfer,  
Action sequencing and error production in stroke patients with apraxia – Behavioral modeling using Bayesian Logic Networks,  

[C2] Moritz Tenorth, Fernando De la Torre and Michael Beetz,  
Learning Probability Distributions over Partially-Ordered Human Everyday Activities,  

[J1] Zoltan-Csaba Marton, Florian Seidel, Ferenc Balint-Benczedi and Michael Beetz,  
Ensembles of Strong Learners for Multi-cue Classification,  
*Pattern Recognition Letters (PRL)*, Special Issue on Scene Understandings and Behaviours Analysis, 2012.

[C1] Martin Schuster, Dominik Jain, Moritz Tenorth and Michael Beetz,  
Learning Organizational Principles in Human Environments,  

[C2] Thomas Rühr, Jürgen Sturm, Dejan Pangercic, Michael Beetz and Daniel Cremers,  
A Generalized Framework for Opening Doors and Drawers in Kitchen Environments,  

[C3] Moritz Tenorth, Alexander Clifford Perzylo, Reinhard Lafrenz and Michael Beetz,  
The RoboEarth language: Representing and Exchanging Knowledge about Actions, Objects, and Environments,  

[C4] Lars Kunze, Michael Beetz, Manabu Saito, Haseru Azuma, Kei Okada and Masayuki Inaba,  
Searching Objects in Large-scale Indoor Environments: A Decision-theoretic Approach,  
[C5] Moritz Tenorth and Michael Beetz,
*Knowledge Processing for Autonomous Robot Control*,

[C6] Michael Beetz, Moritz Tenorth, Dejan Pangercic and Benjamin Pitzer,
*Semantic Object Maps for Household Tasks*,

[C7] Michael Beetz, Lorenz Mösenlechner, Moritz Tenorth and Thomas Rühr,
*CRAM – a Cognitive Robot Abstract Machine*,

[C8] Daniel di Marco, Moritz Tenorth, Kai Häussermann, Oliver Zweigle and Paul Levi,
*RoboEarth Action Recipe Execution*,

[C9] Moritz Tenorth and Michael Beetz,
*Exchange of Action-related Information among Autonomous Robots*,

[C10] Moritz Tenorth and Michael Beetz,
*A Unified Representation for Reasoning about Robot Actions, Processes, and their Effects on Objects*,

[C11] Dejan Pangercic, Moritz Tenorth, Benjamin Pitzer and Michael Beetz,
*Semantic Object Maps for Robotic Housework - Representation, Acquisition and Use*,

*The SHERPA project: smart collaboration between humans and ground-aerial robots for improving rescuing activities in alpine environments*,
*IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR)*, College Station, Texas, USA, Nov. 5-8 2012.

[C13] Moritz Tenorth, Koji Kamei, Satoru Satake, Takahiro Miyashita and Norihiro Hagita,
*Towards a Networked Robot Architecture for Distributed Task Execution and Knowledge Exchange*,

[J1] Moritz Tenorth, Ulrich Klank, Dejan Pangercic and Michael Beetz,
*Web-enabled Robots – Robots that Use the Web as an Information Resource*,
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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.
KnowRob: Knowledge processing for robots List of Publications

[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,
IEEE International Conference on Robotics and Automation (ICRA), Anchorage, AK,
USA, 1499-1504, May 3-8 2010.

[C3] Dejan Pangercic, Moritz Tenorth, Dominik Jain and Michael Beetz,
Combining Perception and Knowledge Processing for Everyday Manipulation,
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Taipei,
Taiwan, 1065-1071, October 18-22 2010.

[C4] Michael Beetz, Lorenz Mösenlechner and Moritz Tenorth,
CRAM – A Cognitive Robot Abstract Machine for Everyday Manipulation in
Human Environments,
IEEE/RSJ International Conference on Intelligent Robots and Systems, Taipei, Taiwan,
1012-1017, October 18-22 2010.

[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,

[C6] Moritz Tenorth, Lars Kunze, Dominik Jain and Michael Beetz,
KNOWROB-MAP – Knowledge-Linked Semantic Object Maps,
10th IEEE-RAS International Conference on Humanoid Robots, Nashville, TN, USA, 430-
435, December 6-8 2010.

[R1] Moritz Tenorth and Michael Beetz,
Deliverable D5.2: The RoboEarth Language – Language Specification,
KnowRob: Knowledge processing for robots List of Publications

[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,  
*IEEE International Workshop on Tracking Humans for the Evaluation of their Motion in  

[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  

[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 Au-  
tonomous Household Robots,  
*Proceedings of the 1st International Workshop on Cognition for Technical Systems,  
München*, Germany, 6-8 October, 2008.