[J1] Michael Beetz, Dominik Jain, Lorenz Mösenlechner, Moritz Tenorth, Lars Kunze, Nico Blodow and Dejan Pangercic,  
Cognition-Enabled Autonomous Robot Control for the Realization of Home Chore Task Intelligence,  
*Proceedings of the IEEE, Special Issue on Quality of Life Technology*, 100(8): 2454-2471, 2012.

[C1] Martin Schuster, Dominik Jain, Moritz Tenorth and Michael Beetz,  
*Learning Organizational Principles in Human Environments*,  
*IEEE International Conference on Robotics and Automation (ICRA)*, St. Paul, MN, USA,  

[PhD1] Dominik Jain,  
Technische Universität München, 2012.

[C1] Dominik Jain, Klaus von Gleissenthall and Michael Beetz,  
*Bayesian Logic Networks and the Search for Samples with Backward Simulation and Abstract Constraint Learning*,  

[C2] Paul Maier, Dominik Jain and Martin Sachenbacher,  
*Compiling AI Engineering Models for Probabilistic Inference*,  

[C3] Dominik Jain,  
*Knowledge Engineering with Markov Logic Networks: A Review*,  
*DKB 2011: Proceedings of the Third Workshop on Dynamics of Knowledge and Belief*, 2011.

[C4] William R. Murray and Dominik Jain,  
*Modeling Cognitive Frames for Situations with Markov Logic Networks*,  

[C5] Maier, Paul, Jain, Dominik, Sachenbacher and Martin,  
*Diagnostic Hypothesis Enumeration vs. Probabilistic Inference for Hierarchical Automata Models*,  
[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] Dominik Jain, Andreas Barthels and Michael Beetz, 
Adaptive Markov Logic Networks: Learning Statistical Relational Models with 
Dynamic Parameters, 

[C2] Dominik Jain and Michael Beetz, 
Soft Evidential Update via Markov Chain Monte Carlo Inference, 
*KI 2010: Advances in Artificial Intelligence, 33rd Annual German Conference on AI*, 

[C3] Paul Maier, Dominik Jain, Stefan Waldherr and Martin Sachenbacher, 
Plan Assessment for Autonomous Manufacturing as Bayesian Inference, 
*KI 2010: Advances in Artificial Intelligence, 33rd Annual German Conference on AI*, 

[C4] 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.

[C5] Nico Blodow, Dominik Jain, Zoltan-Csaba Marton and Michael Beetz, 
Perception and Probabilistic Anchoring for Dynamic World State Logging, 

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

[C1] Zoltan Csaba Marton, Radu Bogdan Rusu, Dominik Jain, Ulrich Klank and Michael Beetz, 
Probabilistic Categorization of Kitchen Objects in Table Settings with a Composite Sensor, 
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, St. Louis, 
MO, USA, 4777-4784, October 11-15 2009.

[C2] Dominik Jain, Lorenz Mösenlechner and Michael Beetz, 
Equipping Robot Control Programs with First-Order Probabilistic Reasoning Capabilities, 
[C3] 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

[C4] Dominik Jain, Paul Maier and Gregor Wylezich,
Markov Logic as a Modelling Language for Weighted Constraint Satisfaction
Problems,
Eighth International Workshop on Constraint Modelling and Reformulation, in conjunc-

[R1] Dominik Jain, Stefan Waldherr and Michael Beetz,
Bayesian Logic Networks,
IAS Group, Fakultät für Informatik, Technische Universität München, 2009.

[C1] Michael Beetz, Freek Stulp, Bernd Radig, Jan Bandouch, Nico Blodow, Mihai Dolha, An-
dreas 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] Dominik Jain, Lorenz Mösenlechner and Michael Beetz,
Equipping Robot Control Programs with First-Order Probabilistic Reasoning
Capabilities,
Proceedings of the 1st International Workshop on Cognition for Technical Systems,
Muenchen, Germany, 6-8 October 2008.

[C1] Dominik Jain, Bernhard Kirchlechner and Michael Beetz,
Extending Markov Logic to Model Probability Distributions in Relational Do-
 mains,
KI 2007: Advances in Artificial Intelligence, 30th Annual German Conference on AI,