Dominik Jain

List of Publications

[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,

[PhD1] Dominik Jain,
Probabilistic Cognition for Technical Systems: Statistical Relational Models for High-Level Knowledge Representation, Learning and Reasoning,
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,
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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] 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,  

[C3] Paul Maier, Dominik Jain, Stefan Waldherr and Martin Sachenbacher,  
Plan Assessment for Autonomous Manufacturing as Bayesian Inference,  

[C4] Dejan Pangercic, Moritz Tenorth, Dominik Jain and Michael Beetz,  
Combining Perception and Knowledge Processing for Everyday Manipulation,  

[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,  

[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,
München, 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,