ProbCog: Probabilistic Cognition for Technical Systems

List of Publications

[C1] Moritz Tenorth, Fernando De la Torre and Michael Beetz,
Learning Probability Distributions over Partially-Ordered Human Everyday Activities,

[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,
[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,

[R1] Moritz Tenorth and Michael Beetz,
Deliverable D5.2: The RoboEarth Language – Language Specification,
ProbCog: Probabilistic Cognition for Technical Systems

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