

- [C1] Thomas Rühr, Jürgen Sturm, Dejan Pangercic, Michael Beetz and Daniel Cremers,  
**A Generalized Framework for Opening Doors and Drawers in Kitchen Environments,**  
*IEEE International Conference on Robotics and Automation (ICRA)*, St. Paul, MN, USA,  
May 14–18 2012.
- [C2] Michael Beetz, Lorenz Mösenlechner, Moritz Tenorth and Thomas Rühr,  
**CRAM – a Cognitive Robot Abstract Machine,**  
*5th International Conference on Cognitive Systems (CogSys 2012)*, 2012.
- [C1] Michael Beetz, Ulrich Klank, Alexis Maldonado, Dejan Pangercic and Thomas Rühr,  
**Robotic Roommates Making Pancakes - Look Into Perception-Manipulation Loop,**  
*IEEE International Conference on Robotics and Automation (ICRA), Workshop on Mobile Manipulation: Integrating Perception and Manipulation*, 529-536, May, 9–13 2011.
- [C2] Nico Blodow, Zoltan-Csaba Marton, Dejan Pangercic, Thomas Rühr, Moritz Tenorth and Michael Beetz,  
**Inferring Generalized Pick-and-Place Tasks from Pointing Gestures,**  
*IEEE International Conference on Robotics and Automation (ICRA), Workshop on Semantic Perception, Mapping and Exploration*, May, 9–13 2011.
- [C3] Nico Blodow, Lucian Cosmin Goron, Zoltan-Csaba Marton, Dejan Pangercic, Thomas Rühr, Moritz Tenorth and Michael Beetz,  
**Autonomous Semantic Mapping for Robots Performing Everyday Manipulation Tasks in Kitchen Environments,**  
*Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, San Francisco, CA, USA, September, 25–30 2011.
- [C4] Michael Beetz, Ulrich Klank, Ingo Kresse, Alexis Maldonado, Lorenz Mösenlechner, Dejan Pangercic, Thomas Rühr and Moritz Tenorth,  
**Robotic Roommates Making Pancakes,**  
*11th IEEE-RAS International Conference on Humanoid Robots*, Bled, Slovenia, October, 26–28 2011.
- [J1] M. F. Zaeh, W. Roesel, A. Bannat, T. Bautze, M. Beetz, J. Blume, K. Diepold, C. Ertelt, F. Geiger, T. Gmeiner, T. Gyger, A. Knoll, C. Lau, C. Lenz, M. Ostgathe, G. Reinhart, T. Ruehr, A. Schuboe, K. Shea, I. Stork genannt Wersborg, S. Stork, W. Tekouo, F. Wallhoff and M. Wiesbeck,  
**Artificial Cognition in Production Systems,**  
*IEEE Transactions on Automation Science and Engineering*, 7(3): 1-27, 2010.
- [BC1] Michael F. Zäh, Michael Beetz, Kristina Shea, Gunther Reinhart, K. Bender, Christian Lau, Martin Ostgathe, W. Vogl, Mathey Wiesbeck, Marco Engelhard, Christoph Ertelt, Thomas Rühr, M. Friedrich and S. Herle,  
**The Cognitive Factory,**  
H. A. ElMaraghy(Ed.), *Changeable and Reconfigurable Manufacturing Systems*, Springer, 355-371, 2009.

- [C1] Christoph Ertelt, Thomas Rühr, Dejan Pangercic, Kristina Shea and Michael Beetz,  
**Integration of Perception, Global Planning and Local Planning in the Manufacturing Domain,**  
*Proceedings of Emerging Technologies and Factory Automation (ETFA).*, 2009.
- [C2] Andreas Leha, Dejan Pangercic, Thomas Rühr and Michael Beetz,  
**Optimization of Simulated Production Process Performance using Machine Learning,**  
*Proceedings of Emerging Technologies and Factory Automation (ETFA).*, 2009.
- [C3] Maier, Paul, Sachenbacher, Martin, Rühr, Thomas, Kuhn and Lukas,  
**Integrating Model-based Diagnosis and Prognosis in Autonomous Production,**  
*Proc. First International Conference on Prognostics and Health Management (PHM'09),*  
San Diego, CA, USA, September 2009.
- [C4] Maier, Paul, Sachenbacher, Martin, Rühr, Thomas, Kuhn and Lukas,  
**Integrated Plan Tracking and Prognosis for Autonomous Production Processes,**  
*Proc. of 14th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA-2009),* September 2009.
- [C5] Maier, Paul, Sachenbacher, Martin, Rühr, Thomas, Kuhn and Lukas,  
**Integrated Diagnosis and Plan Assessment for Autonomous Production Processes,**  
*Proc. of The IJCAI-09 Workshop on Self-\* and Autonomous Systems (SAS-2009),* July 2009.
- [C6] Maier, Paul, Sachenbacher, Martin, Rühr, Thomas, Kuhn and Lukas,  
**Constraint-Based Integration of Plan Tracking and Prognosis for Autonomous Production,**  
*KI 2009: Advances in Artificial Intelligence, 32nd Annual German Conference on AI,*  
Paderborn, Germany, Springer, Lecture Notes in Computer Science, Vol. 5803, 403-410,  
September 15-18 2009.
- [C1] Thomas Rühr, Dejan Pangercic and Michael Beetz,  
**Structured Reactive Controllers and Transformational Planning for Manufacturing,**  
*Proceedings of the 13th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Hamburg, Germany, September 15-18, 2008.*
- [C2] M. F. Zäh, M. Beetz, K. Shea, G. Reinhart, O. Stursberg, M. Ostgathe, C. Lau, C. Ertelt,  
D. Pangercic, Thomas Rühr, H. Ding and T. Paschedag,  
**An Integrated Approach to Realize the Cognitive Machine Shop,**  
*Proceedings of the 1st International Workshop on Cognition for Technical Systems,*  
*München, Germany, 6-8 October, 2008.*