

**Prof. Dr.
Michael Beetz**

Chair for Image Understanding and Knowledge-Based Systems
Department of Informatics, Technische Universität München
D - 85748 Garching bei München, Germany

<http://www9.cs.tum.edu/people/beetz>
eMail: beetz [at] cs.tum.edu Tel.: +49-89-289-17759



Born January 4, 1961

Career

2002–present Professor in the Department of Informatics and Head of the Intelligent Autonomous Systems Group, TU München
1995–2001 Senior Researcher at Universität Bonn

Research Interests

Perception of activities, Camera-based state estimation, Autonomous and cognitive robots, Plan-based control, Robot learning

Honours

- Best paper award (3rd Int. Conference on Autonomous Agents) 1999
- RoboCup Engineering Challenge Award 2002
- Yale University Fellowship 1990-91

Activities/Competence

- Project reviewer for DFG (including SFBs), NASA, Wallenstein Foundation (Sweden), Engineering & Physical Sciences Research Council, etc.
- Coordinator of the Technical Coordination Unit “Robot Planning” in the European Network of Excellence in AI Planning (PLANET)
- Member of executive committee in the European Network of Excellence in AI Planning (PLANET)
- Editor of roadmap “Robot Planning” in the context of the network of excellence PLANET
- Co-chair of the German Conference on Artificial Intelligence (KI-07)
- Chair of the international Cognitive Robotics Workshop (CogRob2006)
- Member of the organization committees of the European Conference on AI (2002) and the International Conference on Autonomous Agents (2000)

Most Important Relevant Publications (Selected)

- [1] **Michael Beetz**. *Plan-based Control of Robotic Agents*, volume LNAI 2554 of *Lecture Notes in Artificial Intelligence*. Springer Publishers, 2002.
- [2] **Michael Beetz**. *Concurrent Reactive Plans: Anticipating and Forestalling Execution Failures*, volume LNAI 1772 of *Lecture Notes in Artificial Intelligence*. Springer Publishers, 2000.
- [3] **Michael Beetz**, Bernhard Kirchlechner, and Martin Lames. Computerized real-time analysis of football games. *IEEE Pervasive Computing*, 4(3):33–39, 2005.
- [4] **Michael Beetz**, Thorsten Schmitt, Robert Hanek, Sebastian Buck, Freerk Stulp, Derik Schröter, and Bernd Radig. The AGILO robot soccer team experience-based learning and probabilistic reasoning in autonomous robot control. *Autonomous Robots*, 17(1):55–77, 2004.
- [5] Robert Hanek and **Michael Beetz**. The contracting curve density algorithm: Fitting parametric curve models to images using local self-adapting separation criteria. *International Journal of Computer Vision (IJCV)*, 59(3):233–258, 2004.
- [6] Thorsten Schmitt, Robert Hanek, **Michael Beetz**, Sebastian Buck, and Bernd Radig. Cooperative probabilistic state estimation for vision-based autonomous mobile robots. *IEEE Transactions on Robotics and Automation*, 18(5), October 2002.
- [7] **Michael Beetz**, Tom Arbuckle, Maren Bennewitz, Wolfram Burgard, Armin Cremers, Dieter Fox, Henrik Grosskreutz, Dirk Hähnel, and Dirk Schulz. Integrated plan-based control of autonomous service robots in human environments. *IEEE Intelligent Systems*, 16(5):56–65, 2001.
- [8] **Michael Beetz**. Structured Reactive Controllers. *Journal of Autonomous Agents and Multi-Agent Systems. Special Issue: Best Papers of the International Conference on Autonomous Agents '99*, 4:25–55, March/June 2001.
- [9] Sebastian Thrun, **Michael Beetz**, Maren Bennewitz, Armin Cremers, Frank Dellaert, Dieter Fox, Dirk Hähnel, Charles Rosenberg, Nicholas Roy, Jamieson Schulte, and Dirk Schulz. Probabilistic algorithms and the interactive museum tour-guide robot Minerva. *International Journal of Robotics Research*, 2000.
- [10] Freerk Stulp and **Michael Beetz**. Action awareness – enabling agents to optimize, transform, and coordinate plans. In *Accepted for the Fifth International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, 2006.