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Born August 29, 1967

Career

- 2003-present Postdoctoral Researcher and Lecturer
Institute of Computer Science and Engineering, Universität Karlsruhe (TH), Karlsruhe, Germany
- 2001-2003 Researcher and Lecturer
Research Center for Information Technologies (FZI), Universität Karlsruhe (TH), Karlsruhe, Germany
- 1996-2001 Researcher and Lecturer, / Universität Karlsruhe (TH), Karlsruhe, Germany

Research Interests

Humanoid robotics, Human-like humanoid motion, motor control, mobile manipulation,
Mechatronics and system integration, imitation learning, cognitive systems.

Honours

- Award of the “Förderverein FZI”, Research Center for Information Technologies, Karlsruhe, Germany, for the best dissertation in Computer Science in 2003

Activities/Competence

- Co-coordinator and scientific manager of the integrated EU-Project PACO-PLUS, 2006 -
- Scientific leader and coordinator of the project R1 in the German Collaborative Research Center on Humanoid Robots (SFB 588), 2004 -
- Member of the International Program Committee of the IEEE-RAS International Conference on Humanoid Robots (Humanoids), 2001 and 2006
- Member of the International Program Committee of the IEEE International Conference on Development and Learning (ICDL 2005)
- Member of the European Network for the Advancement of Artificial Cognitive Systems (euCognition)
- Reviewer of journals (Robotics and Autonomous Systems, IEEE Transactions on Systems, Man and Cybernetics (Part B) and Journal of Systems Architecture: The EUROMICRO Journal) and conferences (e.g. IEEE-RAS International Conference on Humanoid Robots, IEEE International Conference on Robotics and Automation, IEEE International Conference on Intelligent Robots and Systems, etc.)

Most Important Relevant Publications (Selected)

- [1] **T. Asfour**, K. Regenstein, P. Azad, J. Schröder and R. Dillmann. ARMAR-III: A Humanoid Platform for Perception-Action Integration. In Proceedings of the International Workshop on Human-Centered Robotic Systems (HCRS), Munich, Germany, 2006
- [2] **D. Bertram**, J. Kuffner, R. Dillmann and **T. Asfour**. An Integrated Approach to Inverse Kinematics and Path Planning for Redundant Manipulators. In Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), Orlando, USA, 2006.
- [3] P. Azad, **T. Asfour** and R. Dillmann. Combining Appearance-based and Model-based Methods for Real-Time Object Recognition and 6D-Localization. In Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Beijing, China, 2006.
- [4] A. Morales, **T. Asfour**, P. Azad, S. Knoop and R. Dillmann. Integrated Grasp Planning and Visual Object Localization For a Humanoid Robot with Five-Fingered Hands. In Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Beijing, China, 2006.
- [5] R. Zöllner, **T. Asfour** and R. Dillmann. Programming by Demonstration: Dual-Arm Manipulation Tasks for Humanoid Robots. In Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Sendai, Japan, 2004.
- [6] **T. Asfour**, D. Ly, K. Regenstein, and R. Dillmann. Coordinated Task Execution for Humanoid Robots, Advances in Experimental Robotics, Series: Springer Tracts in Advanced Robotics, Vol. 21, Springer Verlag, 2004.
- [7] **T. Asfour** and R. Dillmann. Human-like Motion of a Humanoid Robot Arm Based on Closed-Form Solution of the Inverse Kinematics Problem. In Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Las Vegas, USA, 2003.
- [8] **T. Asfour**, A. Ude, K. Berns and R. Dillmann. Control of ARMAR for the Realization of Anthropomorphic Motion Patterns. In Proceedings IEEE-RAS International Conference on Humanoid Robots, Tokyo, Japan, 2001.
- [9] N. Fukaya and S. Toyama and **T. Asfour** and R. Dillmann. Design of a Humanoid Hand for Human Friendly Robotics Applications. In Proceedings of the International Conference on Machine Automation (ICMA), Osaka, Japan, 2000.
- [10] **T. Asfour**, K. Berns and R. Dillmann. The Humanoid Robot ARMAR: Design and Control. In Proceedings IEEE-RAS International Conference on Humanoid Robots, Boston, USA, 2000.