

Asst. Prof. Dr. Yasir Niaz Khan



Background

- Since May 2009 research assistant at the Department of Cognitive Systems of the University of Tübingen
- 2006-2009 Part-time researcher in IUPR group at DFKI GmbH Kaiserslautern.
- 2006-2009 student and researcher at TU Kaiserslautern.
- 2002-2004 Part-time Faculty position in department of Computer Science at FAST National University of Computer and Emerging Sciences, Lahore, Pakistan.
- 2001-2003 Masters in Computer Science from FAST National University of Computer and Emerging Sciences, Lahore, Pakistan.
- 1998-2001 Bachelors in Computer Science from FAST National University of Computer and Emerging Sciences, Lahore, Pakistan.

Research Interests

- Mobile Outdoor Robots
- Computer Vision
- Localization and Mapping

Current Projects

- Terrain Classification
- Cooperative Outdoor Robots
- SICK robot day

Publications

- [1] Stefan Laible, Yasir Niaz Khan, and Andreas Zell. Terrain classification with conditional random fields on fused 3d lidar and camera data. In *European Conference on Mobile Robots (ECMR 2013)*, pages 172--177, Barcelona, Catalonia, Spain, September 2013. IEEE. [[DOI](#)]
- [2] Yasir Niaz Khan, Andreas Masselli, and Andreas Zell. Visual terrain classification by flying robots. In *IEEE International Conference on Robotics and Automation (ICRA)*, pages 498 --503, St. Paul, Minnesota, USA, may 2012. [[DOI](#)]
- [3] Stefan Laible, Yasir Niaz Khan, Karsten Bohlmann, and Andreas Zell. 3d lidar- and camera-based terrain classification under different lighting conditions. In *Autonomous Mobile Systems 2012*, Informatik aktuell, pages 21--29. Springer Berlin Heidelberg, 2012. [[DOI](#) | [link](#)]
- [4] Yasir Niaz Khan, Philippe Komma, Karsten Bohlmann, and Andreas Zell. Grid-based visual terrain classification for outdoor robots using local features. In *IEEE Symposium on Computational Intelligence in Vehicles and Transportation Systems (CIVTS 2011)*, pages 16 -- 22, Paris, France, apr 2011. [[DOI](#)]
- [5] Yasir Niaz Khan, Philippe Komma, and Andreas Zell. High resolution visual terrain classification for outdoor robots. In *Computer Vision Workshops (ICCV Workshops), 2011 IEEE International Conference on*, pages 1014 --1021, Barcelona, Spain, nov 2011. [[DOI](#)]
- [6] Yasir Niaz Khan and Syed Atif Mehdi. Sign language recognition using sensor gloves. In *9th International Conference on Neural Information Processing*, volume 5, pages 2204 -- 2206, 2002. [[DOI](#) | [link](#)]

Theses

1. *Visual Terrain Classification for Outdoor Mobile Robots*
PhD Thesis - University of Tübingen
2. *Using Soft Computing Techniques for Gesture Recognition*
Yasir Niaz Khan

Masters Thesis - FAST - National University of Computer and Emerging Sciences,
September 2004

3. *Talking Hands*

Adeeb Ashraf, Syed Atif Mehdi, Yasir Niaz Khan

Bachelors Thesis - FAST - National University of Computer & Emerging Sciences,
December 2000

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