



## Simon Haller

### Technical Assistant

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### Areas of Interest

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- System Automation
- Robotics, Computer Vision and Machine Learning
- Free Software

### Positions

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- Technical Assistant at the Department of Computer Science, Intelligent and Interactive Systems, University of Innsbruck (since 2010)
- Systems Developer and Systems Administrator for Large Scale Linux Systems at the Central IT Services, University of Innsbruck (2005-2010)
- Systems Administrator (part time), User Support Department, Central IT Services, University of Innsbruck (2002-2005)

### Education

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- 06/2014 Apprentice Instructor
- 02/2012 Engineer Degree (Ing., granted by the Federal Ministry of Economics)

- 10/2006 Bachelor Degree in Computer Science
- 06/2000 Technical High School for Telecommunication ('HTL für Nachrichtentechnik')

## Talks and Workshops

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- A current list of talks and workshops can be found [here](#).

## Publications

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- Philipp Zech, Simon Haller, Safoura Rezapour Lakani, Barry Ridge, Emre Ugur, Justus Piater, Computational models of affordance in robotics: a taxonomy and systematic classification.



Adaptive Behavior 25 (5), pp. 235–271, 2017.  
[\[Abstract\]](#) [\[BibTeX\]](#) ([website and raw data](#))

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- Thiusius Savarimuthu, Anders Buch, Christian Schlette, Nils Wantia, Jürgen Rossmann, David Martínez, Guillem Alenyà, Carme Torras, Aleš Ude, Bojan Nemec, Aljaž Kramberger, Florentin Wörgötter, Eren Aksoy, Jeremie Papon, Simon Haller, Justus Piater, Norbert Krüger, Teaching a Robot the Semantics of Assembly Tasks . IEEE Transactions on Systems, Man, and Cybernetics:



Systems PP (99), pp. 1–23, 2017.

© IEEE [\[Link\]](#) [\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)

- Stefan Spiss, Yeongmi Kim, Simon Haller, Matthias Harders, Comparison of Tactile Signals for Collision Avoidance on Unmanned Aerial Vehicles. [Haptic Interaction \(Proceedings of the 2nd](#)



[Asia Haptics Conference](#)), pp. 393–399, 2016.  
[\[PDF\]](#) [\[Abstract\]](#) [\[BibTeX\]](#)

© Springer-Verlag [\[Link\]](#)

- Thiusius R. Savarimuthu, Anders G. Buch, Yang Yang, Simon Haller, Jeremie Papon, David Martínez, Eren Aksoy, Manipulation Monitoring and Robot Intervention in Complex Manipulation Sequences. [Workshop on Robotic Monitoring](#), 2014 (Workshop at RSS). Extended Abstract. [\[Link\]](#) [\[PDF\]](#) [\[BibTeX\]](#)
- David Martínez, Guillem Alenyà, Pablo Jiménez, Carme Torras, Jürgen Roßmann, Nils Wantia, Eren Aksoy, Simon Haller, Justus Piater, Active Learning of Manipulation Sequences. International Conference on Robotics and Automation, pp. 5671–5678, 2014.



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## Apprentice

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- [Tizian Müller](#) (current - 09/2014)

## (Co-)Supervised Theses

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- Lee Chhong Shing, Thesis: [Haptic Exploration of Images for the Visually Impaired](#), 2017/06/20
- Adrian Marxer, Thesis: [Visual SLAM for Terrain Reconstruction and Autonomous Flight](#), 2016/04/19
- Stefan Spiss, Thesis: [Intuitive Human-Computer Interface for Quadcopter Control](#), 2016/04/19
- Alexander Falch, Thesis: [Entwicklung eines web-basierten Verwaltungstools zur Protokollierung und Zugangssteuerung von Industriegeräten](#), 2015/12/15
- Alexander Hirsch, Thesis: [Improved On-Board Communication for Low-Cost Mobile Robots](#), 2014/10/14
- Martin Kolb, Thesis: [Face-Tracking mit Scratch](#), 2013/06/25

## Projects

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- [Squirrel](#) (EU FP7-ICT-STREP, current - 2016)
- [PaCMan](#) (EU FP7-ICT-STREP, 2014-2016)
- [Networking Lake Observatories in Europe](#) (COST Action ES1201, 2013-2016)
- [IntellAct](#) (EU FP7-ICT-STREP, 2011–2014)
- Support for a state licensed IT-Center in Koudougou ([AITED](#), 2009–2010)

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