

Curriculum Vitae, Alexander Olavi Hartl

Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Email(s)

Nationality(-ies)

Date of birth

Gender

Hartl, Alexander Olavi

Staudingerstr. 63, 81735 München, Germany

+49(089)-20313545 // +49(0176)-23784581

hartl@in.tum.de

German, Finnish

26.03.1981

Male

Academic resume

09.1987 - 08.1991

09.1991 - 08.1992

09.1992 - 08.1999

09.1999 - 06.2001

10.2002 - 03.2008

1th - 4th grade, Grundschule Achslach, Germany

5th grade, Hauptschule Ruhmannsfelden, Germany

5th - 11th grade, Comenius Gymnasium Deggendorf, Germany

German 'Abitur', Comenius Gymnasium Deggendorf, (German graduation, title: Allgemeine Hochschulreife), grade: 1.8 (range 1.0 - 6.0)

Computer Science with minor subject Physics, Technische Universität München (TUM), München, Germany (title: Diplom Informatiker), thesis grade: 1.0, average grade: 1.2 (range 1.0 - 5.0)

Military service

07.2001 - 03.2002

4.Pionierbataillon Bogen, Germany

Working experience

07.2002 - 10.2002

04.2005 - 07.2005

04.2008 - 06.2008

07.2008 - 03.2009

04.2009 - today

Mercantile employee, Stangl AG Deggendorf, Germany

Tutor for computer science, Technische Universität München (TUM), München, Germany

Research assistant, Technische Universität München (TUM), München, Germany

Research assistant, Georgetown University, Washington DC, USA

Doctoral candidate, Technische Universität München (TUM), München, Germany

Languages

Mother tongue(s)

Further language(s)

*Self-assessment
European level^(*)*

English

French

German, Finnish

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C1	C1	C1
A1	A1	A1	A1	A1

^(*) Common European Framework of Reference (CEF) level

Publications

- 06.2007 *Intraoperative nuclear imaging using navigated gamma-probes for tumor localization*, T. Wendler, A. Hartl, J. Traub, S. I. Ziegler, N. Navab, Annual Meeting of Society of Nuclear Medicine, Washington D.C., USA, 2nd-6th June 2007 (SNM 2007), 48: p. 162
- 07.2007 *Adding navigation to radio-guided surgery: new possibilities, new problems, new solutions*, T. Wendler, J. Traub, A. Hartl, T. Lasser, M. Burian, A. Buck, F. Daghighian, M. Schwaiger, S. I. Ziegler, N. Navab, 3rd Russian Bavarian Conference on Biomedical Engineering, Erlangen, Germany, 2nd-3rd July 2007 (RBC Biomed 2007), pp. 96-100
- 10.2007 *Towards intra-operative 3D nuclear imaging: reconstruction of 3D radioactive distributions using tracked gamma probes*, T. Wendler, A. Hartl, T. Lasser, J. Traub, F. Daghighian, S. I. Ziegler, N. Navab, 10th International Conference on Medical Image Computing and Computer Assisted Intervention, 29th October - 2nd November 2007, Brisbane, Australia, (MICCAI 2007), pp. 909-917
- 10.2007 *Towards intra-operative 3D nuclear imaging: development and evaluation of ad hoc models*, A. Hartl, T. Wendler, T. Lasser, J. Traub, S. Ziegler, N. Navab, Annual meeting of Deutsche Gesellschaft für Computer-und Roboter-Assistierte Chirurgie (CURAC 2007), Karlsruhe, Germany
- 03.2008 *Confidence visualization and robust statistical inference by means of navigation in beta probe surface reconstruction*, A. Hartl, T. Wendler, N. Navab, Diploma thesis, Technische Universität München (TUM), München, Germany
- 06.2008 *3D Intra-operative nuclear imaging for SLNB in neck*, T. Wendler, A. Hartl, T. Lasser, J. Traub, S. Ziegler, N. Navab, Proceedings of Annual Meeting of Society of Nuclear Medicine (SNM 2008), Houston, USA
- 06.2008 *Confident radioactivity surface reconstruction for control of resection borders*, A. Hartl, T. Wendler, J. Traub, T. Lasser, S. Ziegler, N. Navab, Proceedings of Annual Meeting of Society of Nuclear Medicine (SNM 2008), Houston, USA
- 09.2008 *Tracking-based statistical correction for radio-guided cancer surgery*, A. Hartl, T. Wendler, T. Lasser, S. Ziegler, N. Navab, Proceedings of Augmented environments for Medical Imaging and Computer-aided Surgery(AMI-ARCS 2008), New York, USA
- 06.2009 *A comparison study of two reconstruction methods for gated Cone-Beam CT*, A. Hartl, Z. Yaniv, Proceedings of Computer Assisted Radiology and Surgery (CARS 2009), Berlin, Germany
- 09.2009 *Evaluation of a 4D Cone-Beam CT Reconstruction Approach using a Simulation Framework*, A. Hartl, Z. Yaniv, Proceedings of Engineering in Medicine and Biology Society (EMBC 2009), Minneapolis, USA

- 10.2010 *Comparison study of detection models for nuclear probes*, A. Hartl, N. Navab, S. I. Ziegler, Proceedings of Annual Congress of the European Association of Nuclear Medicine (EANM 2010), Vienna, Austria
- 11.2010 *Models of detection physics for nuclear probes in freehand SPECT reconstruction*, A. Hartl, N. Navab, S. I. Ziegler, Proceedings of IEEE Medical Imaging Conference (IEEE/MIC 2010), Knoxville, Tennessee, USA
- 02.2011 *Evaluation of an ad hoc model of detection physics for navigated beta-probe surface imaging*, D. I. Shakir, A. Hartl, N. Navab, S. I. Ziegler, Proceedings of SPIE Visualization, Image-Guided Procedures, and Modeling Conference (SPIE 2011), Lake Buena Vista, Florida, USA
- 11.2011 *Impact of acquisition geometry and physical model on Freehand SPECT reconstructions*, A. Hartl, T. Lasser, N. Navab, S. I. Ziegler, Proceedings of IEEE Medical Imaging Conference (IEEE/MIC 2011), Knoxville, Valencia, Spain
- 02.2012 *Two new ad-hoc models of detection physics and their evaluation for navigated beta probe surface imaging*, D. I. Shakir, A. Hartl, F. R. Schneider, J. Pulko, S. I. Ziegler, N. Navab, T. Lasser, Proceedings of SPIE Visualization, Image-Guided Procedures, and Modeling Conference (SPIE 2012), San Diego, California, USA
- 02.2012 *Freehand SPECT reconstructions using look up tables*, A. Hartl, D. I. Shakir, R. Kojchev, N. Navab, S. I. Ziegler, T. Lasser, Proceedings of SPIE Visualization, Image-Guided Procedures, and Modeling Conference (SPIE 2012), San Diego, California, USA
- 10.2012 *Towards Intra-operative PET for Head and Neck Cancer: Lymph Node Localization Using High-energy Probes*, D. I. Shakir, A. Okur, A. Hartl, P. Matthies, M. Essler, S. I. Ziegler, T. Lasser, N. Navab, Proceedings of the 15th International Conference on Medical Image Computing and Computer Assisted Interventions (MICCAI 2012), Nice, France