
Curriculum Vitae

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Helmut Grabner

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Lead Software Engineer

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Personal Data

Born	4th January, 1979, Leoben, Austria
Citizenship	Austria
Marital status	married, two children (Richard, 2011; Theresa, 2012)
Languages	German (native speaker), English (fluent spoken and written)

Education

2004-2008	PhD-Study (Computer Science) <i>Institute for Computer Graphics and Vision</i> <i>Graz University of Technology, Austria</i> Thesis title: <i>On-line Boosting and Vision</i> 1 st Examiner and Advisor: Prof. Horst Bischof 2 nd Examiner: Prof. Aleš Leonardis
2003-2004	Master-Study (Computer Science, Telematics) <i>Graz University of Technology, Austria, with distinction</i>
1999-2003	Bachelor-Study (Computer Science, Telematics) <i>Graz University of Technology, Austria</i>
1993-1998	HTBLuVA Graz-Gösting (BULME), Graz, Austria Computer Engineering, with distinction
1989-1993	Hauptschule (extended elementary school), Graz, Austria
1985-1989	Volksschule (primary school), Graz, Austria

Employment

02/2015-date	Lead Software Engineer <i>Logitech Upicto GmbH, Zürich, Switzerland</i>	
05/2012-01/2015	CTO and co-founder <i>upicto GmbH, Zürich, Switzerland</i>	
10/2008-12/2014	Post-doc Researcher <i>Computer Vision Lab ETH-Zürich, Switzerland</i>	
02/2006-09/2008	Research and Teaching Assistant <i>Institute for Computer Graphics and Vision Graz University of Technology, Austria</i>	
12/2004-01/2006	Research Assistant and PhD Student <i>Institute for Computer Graphics and Vision Graz University of Technology, Austria</i>	
1999-2004	Engineering as freelancer for the companies <i>Anton Paar, Hage, Adres, Lumitech, SDS</i> and <i>Liebherr</i>	
10/1998-05/1999	Military service (Aufklärungsbataillon 1, Gratkorn)	
Research visits	<i>Czech Technical University, Prague, Department of Cybernetics, The Center for Machine Perception, 4 weeks in 2006 and 2 weeks in 2007 on invitation of Prof. Dr. Jiri Matas.</i>	

Commercial

In 2011 I co-founded *upicto GmbH*. Videos are becoming the dominant form of media, through which professional organizations and consumers express their interests and visions. *upicto GmbH* renders such videos easy to organize, analyze, and retrieve.

In 2015 *upicto GmbH* was acquired by *Logitech*. I am happy to continue my research there, working in a great team and help developing exciting new products.

Research Interest

My research focuses on on-line machine learning methods and their applications in computer vision. This includes learning from large data-streams, adapting computational models and abnormality detection. To this end, I am especially interested in exploiting visual context for robust object detection, object tracking and event detection. Recently, I got very interested in what causes human interest in image collections and videos and how this can be modeled computationally.

Teaching Experience

Courses	<i>Knowledge based image interpretation</i> , 2008-2014 <i>Image Analysis and Computer Vision (Visual Tracking Lectures)</i> , 2008-2014 <i>Computer Vision (Visual Tracking Lectures)</i> , 2010-2014 <i>Computer Vision 1</i> , 2007, 2008 <i>Computer Vision 2</i> , 2007, 2008 Coordinator of Bachelor and Master-Projects at ICG, 2006-2008 Tutor: <i>Bildanalyse und Computergraphik</i> , 2006 Tutor: <i>Computational Intelligence</i> , 2005
Advised master's thesis	Kenny Floria. <i>Automatic Pipeline for Depth Estimation of Webcams</i> , 2012 Daniel Wirz. <i>On Features and Datasets</i> , 2012 Fabian Schmidt. <i>Scene Analysis for Improved Tracking by Detection</i> , 2011 Rene Dietrich. <i>Chances and Risks for German Small and Medium Businesses in E-Commerce</i> , 2011 Dominik Riha. <i>Minimizing Human Interaction for Medical Analysis using Visual Context</i> , 2010 Paul Wohlhart. <i>Tracking on-line learned Natural Features for Mobile Augmented Reality</i> , 2009 Martin Godec. <i>Semi Supervised Tracking</i> , 2008 Sabine Sternig. <i>Robust Object Detection Using an On-line Learned Classifier Grid</i> , 2008 Thomas Kenner. <i>Defect Detection</i> , 2007
Advised PhD thesis	Michael Gygli. <i>Visual Interestingness</i> , ongoing, (together with Prof. Luc Van Gool) Andreas Nussberger. <i>Visual Sense and Avoid for Unmanned Aircrafts</i> , ongoing, (together with Prof. Luc Van Gool) Fabian Nater. <i>Abnormal Behavior Detection in Surveillance Videos</i> , 2012 (together with Prof. Luc Van Gool) Severin Stalder. <i>Paradigms in Visual Object Tracking</i> , 2012 (together with Prof. Luc Van Gool)
PhD Committee Member	Lukas Cerman. <i>Tracking with Context</i> , 2013 Michael Villamizar. <i>Efficient Approaches for Object Class Detection</i> , 2012

Service

Program committee	<i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2007, 2009, 2010, 2011, 2012, 2013, 2014, 2015 <i>IEEE International Conference on Computer Vision (ICCV)</i> , 2007, 2009, 2011, 2013
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Regular reviewer

European Conference on Computer Vision (ECCV), 2008, 2010, 2012, 2014

IEEE International Conference on Pattern Recognition (ICPR), 2008, 2010

Various local conferences and workshops, such as *Asian Conference on Computer Vision (ACCV)*, *British Machine Vision Conference (BMVC)* and *Austrian Association for Pattern Recognition (AAPR)* for many years.

IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI)

International Journal of Computer Vision (IJCV)

Various other journals, such as *Computer Vision and Image Understanding*, *Pattern Recognition*, *IEEE Trans. on Image Processing*, *IEEE Trans. on Multimedia*, *IEEE Trans. on Robotics*, *IEEE Trans. on Systems Man and Cybernetics*, *IET Computer Vision*, *ISPRS Journal of Photogrammetry and Remote Sensing*, *Machine Vision and Applications*, *Neurocomputing* and *Optical Engineering* from time to time.

Workshop organizer

ICCV'13 WS on Consumer Depth Cameras for Computer Vision, 2013
ICPR'12 Contest on People tracking in wide baseline camera networks, 2012

ECCV'12 WS on Consumer Depth Cameras for Computer Vision, 2012

ICCV'11 WS on Consumer Depth Cameras for Computer Vision, 2011

CVPR'10 WS on On-line learning for Computer Vision, 2010

ICCV'09 WS on On-line learning for Computer Vision, 2009

History of Computer Vision, 2008, Graz, Austria

Computer Vision Winter Workshop, 2007, St. Lambrecht, Austria

Publications

The main conferences in the field are very selective – in general less than 25% of the articles submitted are accepted – and their proceedings play the role which are as important as international journals.

Google Scholar: scholar.google.com/citations?user=EstsI9oAAAAJ&hl=en&pagesize=100, citations > 3,300; h-Index: 22

Major Conferences

- [1] M. Gygli, H. Grabner, and L. Van Gool. Video summarization by learning submodular mixtures of objectives. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2015.
- [2] A. Nussberger, H. Grabner, and L. Van Gool. Robust aerial object tracking in images with lens flare. In *Proceedings International Conference on Robotics and Automation (ICRA)*, 2015.

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- [3] M. Gygli, H. Grabner, H. Riemenschneider, and L. Van Gool. Creating summaries from user videos. In *Proceedings European Conference on Computer Vision (ECCV)*, 2014.
 - [4] M. Gygli, H. Grabner, H. Riemenschneider, F. Nater, and L. Van Gool. The interestingness of images. In *Proceedings International Conference on Computer Vision (ICCV)*, 2013.
 - [5] H. Grabner, F. Nater, M. Druy, and L. Van Gool. Visual interestingness in image sequences. In *Proceedings of ACM International Conference on Multimedia*, 2013.
 - [6] V. De Luca, H. Grabner, , L. Petrusca, R. Salomir, G. Szekely, and C. Tanner. Keep breathing! Common motion helps multi-modal mapping. In *Proceedings Medical Image Computing and Computer-Assisted Intervention (MICCAI)*, 2011.
 - [7] H. Grabner, J. Gall, and L. Van Gool. What makes a chair a chair? In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2011.
 - [8] S. Stalder, H. Grabner, and L. Van Gool. Cascaded confidence filtering for improved tracking-by-detection. In *Proceedings European Conference on Computer Vision (ECCV)*, 2010.
 - [9] H. Grabner, J. Matas, L. Van Gool, and P. Cattin. Tracking the invisible: Learning where the object might be. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2010.
 - [10] F. Nater, H. Grabner, and L. Van Gool. Exploiting simple hierarchies for unsupervised human behavior analysis. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2010.
 - [11] P. Roth, S. Sternig, H. Grabner, and H. Bischof. Classifier grids for robust adaptive object detection. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2009.
 - [12] H. Grabner, C. Leistner, and H. Bischof. Semi-supervised on-line boosting for robust tracking. In *Proceedings European Conference on Computer Vision (ECCV)*, 2008.
 - [13] A. Saffari, H. Grabner, and H. Bischof. SERBoost: Boosting with expectation regularization. In *Proceedings European Conference on Computer Vision (ECCV)*, 2008.
 - [14] C. Leistner, H. Grabner, and H. Bischof. Semi-supervised boosting using visual similarity learning. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2008.
 - [15] M. Grabner, H. Grabner, and H. Bischof. Learning features for tracking. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2007.
 - [16] H. Grabner, P.M. Roth, and H. Bischof. Eigenboosting: Combining discriminative and generative information. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2007.

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- [17] H. Grabner and H. Bischof. On-line boosting and vision. In *Proceedings IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, volume 1, pages 260–267, 2006.

Journals

- [1] A. Voulodimos, D. Kosmopoulos, G. Veres, H. Grabner, L. Van Gool, and T. Varvarigou. Online classification of visual tasks for industrial workflow monitoring. *Neural Networks*, 2011.
- [2] H. Grabner, T.T. Nguyen, B. Gruber, and H. Bischof. On-line boosting-based car detection from arial images. *ISPRS Journal of Photogrammetry & Remote Sensing*, 63(3):382–396, 2007.

Other Reviewed Conferences and Workshops

- [1] A. Nussberger, H. Grabner, and L. Van Gool. Aerial object tracking from an airborne platform. In *In Proceedings International Conference on Unmanned Aircraft Systems (ICUAS)*, 2014.
- [2] A. Fossati, H. Grabner, and L. Van Gool. Exploiting physical inconsistencies for 3d scene understanding. In *Proceedings Conference 3D Imaging, Modeling, Processing, Visualization, Transmission (3DimPVT)*, 2012.
- [3] S. Stalder, H. Grabner, and L. Van Gool. Dynamic objectness for adaptive tracking. In *Proceedings Asian Conference on Computer Vision (ACCV)*, 2012.
- [4] F. Nater, H. Grabner, and L. Van Gool. Unsupervised workflow discovery in industrial environments. In *Proceeding IEEE Workshop on Visual Surveillance*, 2011.
- [5] F. Nater, T. Tommasi, H. Grabner, L. Van Gool, and B. Caputo. Transferring activities: Updating human behavior analysis. In *Proceeding IEEE Workshop on Visual Surveillance*, 2011.
- [6] F. Nater, H. Grabner, and L. Van Gool. Temporal relations in videos for unsupervised activity analysis. In *Proceedings British Machine Vision Conference (BMVC)*, 2011.
- [7] M. Villamizar, H. Grabner, F. Moreno-Noguer, J. Andrade-Cetto, L. Van Gool, and A. Sanfeliu. Efficient 3d object detection using multiple pose-specific classifiers. In *Proceedings British Machine Vision Conference (BMVC)*, 2011.
- [8] R. Mörzinger, M. Thaler, S. Stalder, H. Grabner, and L. Van Gool. Improved person detection in industrial environments using multiple self-calibrated cameras. In *Proceedings Workshop on Activity Monitoring by Multi-camera Surveillance Systems*, 2011.
- [9] C. Lalos, H. Grabner, L. Van Gool, and T. Varvarigou. Object flow: Learning object displacement. In *Proceeding IEEE Workshop on Visual Surveillance*, 2010.

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- [10] G. Veres, H. Grabner, L. Middleton, and L. Van Gool. Automatic workflow monitoring in industrial environments. In *Proceedings Asian Conference on Computer Vision (ACCV)*, 2010.
- [11] F. Nater, J. Vangeneugden, H. Grabner, L. Van Gool, and R. Vogels. Discrimination of locomotion direction at different speeds: A comparison between macaque monkeys and algorithms. In *Proceedings ECML/PKDD Workshop on Detection and Identification of Rare Audiovisual Cues*, 2010.
- [12] R. Schuster, R. Mörzinger, W. Haas, H. Grabner, and L. Van Gool. Real-time detection of unusual regions in image streams. In *Proceedings ACM International Conference on Multimedia - Video Program*, 2010.
- [13] A. Voulodimos, H. Grabner, D. Kosmopoulos, L. Van Gool, and T. Varvarigou. Robust workflow recognition using holistic features and outlier-tolerant fused hidden markov models. In *Proceedings International Conference on Artificial Neural Networks*, 2010.
- [14] F. Nater, H. Grabner, and L. Van Gool. Visual abnormal event detection for prologed independent living. In *Proceedings IEEE Healthcom Workshop on mHealth*, 2010.
- [15] F. Nater, H. Grabner, T. Jaeggli, and L. Van Gool. Tracker trees: Hierarchies to spot rare events. In *Proceedings International Conference on Cognitive Systems*, 2010.
- [16] S. Stalder, H. Grabner, and L. Van Gool. Beyond semi-supervised tracking: Tracking should be as simple as detection, but not simpler than recognition. In *Proceedings IEEE Workshop on On-line Learning for Computer Vision*, 2009.
- [17] M. Breitenstein, H. Grabner, and L. Van Gool. Hunting nessie: Real time abnormality detection from webcams. In *Proceeding IEEE Workshop on Visual Surveillance*, 2009.
- [18] F. Nater, H. Grabner, T. Jaeggli, and L. Van Gool. Tracker trees for unusual event detection. In *Proceeding IEEE Workshop on Visual Surveillance*, 2009.
- [19] A. Ess, T. Müller, H. Grabner, and L. Van Gool. Segmentation-based uraban traffic scene understanding. In *Proceedings British Machine Vision Conference (BMVC)*, 2009.
- [20] S. Stalder, H. Grabner, and L. van Gool. Exploring context to learn scene specific object detectors. In *Proceedings IEEE International Workshop on Performance Evaluation of Tracking and Surveillance*, 2009.
- [21] M. Godec, H. Grabner, C. Leistner, and H. Bischof. Speeding up semi-supervised on-line boosting for tracking. In *Proceedings Workshop of the Austrian Association for Pattern Recognition (AAPR)*, 2009.
- [22] S. Sternig, P. Roth, H. Grabner, and H. Bischof. Robust adaptive classifier grids for object detection from static cameras. In *Proceedings Computer Vision Winter Workshop*, 2009.
- [23] H. Grabner, J. Sochman, H. Bischof, and J. Matas. Training sequential on-line boosting class for visual tracking. In *Proceedings International Conference on Pattern Recognition (ICPR)*, 2008.

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- [24] C. Leistner, P. Roth, H. Grabner, H. Bischof, A. Stratzer, and B. Rinner. Visual on-line learning in distributed camera networks. In *Proceedings International Conference on Distributed Smart Cameras*, 2008.
- [25] G. Schall, H. Grabner, M. Grabner, P. Wohlhart, D. Schmalstieg, and H. Bischof. 3d tracking in unknown environments using on-line keypoint learning for mobile augmented reality. In *Proceedings Workshop on Visual Localization for Mobile Platforms*, 2008.
- [26] P. Roth, H. Grabner, C. Leistner, M. Winter, and H. Bischof. Interactive learning a person detector: Fewer clicks - less frustration. In *Proceedings Workshop of the Austrian Association for Pattern Recognition (AAPR)*, 2008.
- [27] F. Leberl, S. Kluckner, G. Pacher, H. Grabner, H. Bischof, and M. Gruber. Recognizing cars in aerial imagery to improve orthophotos and digital elevation models. In *Proceedings American Society for Photogrammetry and Remote Sensing*, 2008.
- [28] H. Grabner, C. Leistner, and H. Bischof. Time dependent on-line boosting for robust background modeling. In *Proceedings International Conference on Computer Vision Theory and Applications*, 2007.
- [29] H. Grabner, P.M. Roth, and H. Bischof. Is pedestrian detection really a hard task? In *Proceedings IEEE International Workshop on Performance Evaluation of Tracking and Surveillance*, 2007.
- [30] St. Kluckner, G. Pacher, H. Grabner, H. Bischof, and J. Bauer. A 3d teacher for car detection in aerial images. In *Proceedings ICCV Workshop on 3D Representation for Recognition*, 2007.
- [31] M. Grabner, H. Grabner, J. Pehserl, P. Korica-Pehserl, and H. Bischof. Flea, do you remember me? In *Proceedings Asian Conference on Computer Vision (ACCV)*, pages 657–666, 2007.
- [32] T.T. Nguyen, H. Grabner, B. Gruber, and H. Bischof. On-line boosting for car detection from aerial images. In *Proceedings IEEE International Conference on Research, Innovation and Vision for the Future*, 2007.
- [33] H. Grabner, M. Grabner, and H. Bischof. Real-time tracking via on-line boosting. In *Proceedings British Machine Vision Conference (BMVC)*, volume 1, pages 47–56, 2006.
- [34] M. Grabner, H. Grabner, and H. Bischof. Real-time tracking with on-line feature selection. In *Video Proceedings in conjunction with IEEE Conference on Computer Vision and Pattern Recognition*, 2006.
- [35] H. Grabner, P.M. Roth, M. Grabner, and H. Bischof. Autonomous learning a robust background model for change detection. In *Proceedings IEEE International Workshop on Performance Evaluation of Tracking and Surveillance*, pages 39–46, 2006.
- [36] M. Grabner, H. Grabner, and H. Bischof. Fast approximated SIFT. In *Proceedings Asian Conference on Computer Vision (ACCV)*, pages 918–927, 2006.

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- [37] M. Kepesi, M. Neffe, T. Van Pham, M. Grabner, H. Grabner, and A. Juffinger. Audio-visual feature extraction for semi-automatic annotation of meetings. In *Proceedings IEEE International Workshop on Multimedia Signal Processing*, 2006.
- [38] P.M. Roth, H. Grabner, D. Skočaj, H. Bischof, and A. Leonardis. On-line conservative learning for person detection. In *Proceeding IEEE Workshop on Visual Surveillance and Performance Evaluation of Tracking and Surveillance*, 2005.
- [39] P.M. Roth, H. Grabner, D. Skočaj, H. Bischof, and A. Leonardis. Conservative visual learning for object detection with minimal hand labeling effort. In *Proceedings German Association for Pattern Recognition (DAGM)*, pages 293–300, 2005.
- [40] H. Grabner, C. Beleznai, and H. Bischof. Improving adaboost detection rate by wobble and mean shift. In *Proceedings Computer Vision Winter Workshop*, pages 23–32, 2005.

Books/Editor

- [1] A. Fossati, J. Gall, H. Grabner, and M. Hansard. Editors. In *3rd IEEE Workshop on Consumer Depth Cameras for Computer Vision in conjunction with ICCV'13*, 2013.
- [2] G. Fernandez, H. Grabner, F. Porikli, and S. Velastin. Editors. In *ICPR Contest on People Tracking in Wide Baseline Camera Networks*, 2012.
- [3] A. Fossati, J. Gall, H. Grabner, X. Ren, and K. Konolige, editors. *Consumer Depth Cameras for Computer Vision - Research Topics and Applications*. Advances in Computer Vision and Pattern Recognition, Springer., 2012.
- [4] A. Fossati, J. Gall, H. Grabner, X. Ren, K. Konolige, S. Lee, and M. Hansard. Editors. In *2nd Workshop on Consumer Depth Cameras for Computer Vision in conjunction with ECCV'12*, 2012.
- [5] A. Fossati, J. Gall, H. Grabner, X. Ren, and K. Konolige. Editors. In *1st IEEE Workshop on Consumer Depth Cameras for Computer Vision in conjunction with ICCV'11*, 2011.
- [6] F. Porikli, B. Schiele, and H. Grabner. Editors. In *4th IEEE Workshop on Online Learning for Computer Vision in conjunction with CVPR'10*, 2010.
- [7] F. Porikli, H. Bischof, and H. Grabner. Editors. In *3rd IEEE Workshop on Online Learning for Computer Vision in conjunction with ICCV'09*, 2009.
- [8] P. Roth, C. Leistner, H. Grabner, and H. Bischof. *Multi-Camera Networks*, chapter On-line Learning a Person Detector by Co-Training from Multiple Cameras. Elsevier Science Inc., 2009.
- [9] M. Grabner and H. Grabner. Editors. In *Computer Vision Winter Workshop*, 2007.

Patents

- [1] F. Nater, H. Grabner, and L. Van Gool. Selecting a set of most representative images. PCT Patent Application, 2013.
- [2] J. Birchbauer, H. Bischof, B. Frühstück, H. Grabner, T. Nguyen, P. Roth, and M. Winter. Method for the computer-assisted recognition of a specific object from a data volume based on an interaction with a user, 2010.

Technical Reports

- [1] H. Grabner, F. Nater, M. Druey, and L. Van Gool. Visual interestingness in webcams-streams. Technical Report 278, ETH Zurich, 2012.
- [2] M. Grabner, H. Grabner, and H. Bischof. Fast visual object identification and categorization. NIPS Workshop in Interclass Transfer, 2005.

Others

- [1] R. Mörzinger, M. Thaler, R. Schuster, H. Albert, G. Thallinger, M. Sardis, V. Anagnostopoulos, D. Kosmopoulos, A. Voulodimos, C. Lalos, N. Doulamis, T. Varvarigou, I. Rosenberg, R. Zelada, I. Jubert, H. Grabner, S. Stalder, L. Van Gool, G. Veres, L. Middleton, Z. Sabeur, I. Bouchrika, B. Arbab-Zavar, J. Carter, and M. Nixon. Tools for semi-automatic monitoring of industrial workflows. In *Proceedings ACM International Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams*, 2010.
- [2] H. Grabner. *On-line Boosting and Vision*. PhD thesis, Graz University of Technology, Faculty of Computer Science, 2008.
- [3] H. Grabner and C. Beleznai. History of computer vision. *OCG Journal*, 3:28–29, 2008.
- [4] H. Schwabach, M. Harrer, A. Walzl, H. Bischof, A. Tacke, G. Zoffmann, C. Beleznai, B. Strobl, H. Grabner, and G. Fernandez. Vitus: Video based image analysis for tunnel safety. In *International Conference on Tunnel Safety and Ventilation*, 2006.
- [5] H. Grabner. Autodetektion mit AdaBoost. Master’s thesis, Graz University of Technology, Faculty of Computer Science, 2004.

Invited Papers

- [1] L. Van Gool, M. Breitenstein, S. Gammeter, H. Grabner, and T. Quack. Mining from large image sets. In *Proceedings ACM International Conference on Image and Video Retrieval*, 2009. Invited lecture.
- [2] F. Leberl, H. Bischof, H. Grabner, and S. Kluckner. Recognizing cars in aerial imagery to improve orthophotos. In *Proceedings ACM International Symposium on Advances in Geographic Information Systems*, 2007. Invited lecture.

Invited Presentations

- [1] Machine Learning Meetup, Zürich, CH, *webcamaze – Amazing Webcams*, March, 2014.
- [2] V&C Seminar at Laboratory of Psychophysics, EPFL, Lausanne, CH, *webcamaze – Amazing Webcams*, January, 2014.
- [3] The 33rd Pattern Recognition and Computer Vision Colloquium, Czech Technical University, CZ, *webcamaze – Amazing Webcams*, November, 2013.
- [4] Presentation at KiwiSecurity – Automating Video Surveillance Privacy Forum, Frankfurt am Main, D, *Zukunftsperspektiven und Forschung in der Videoanalyse*, September 2011.
- [5] Sommerschule TUM/DLR (Technische Universität München and Deutsches Zentrum für Luft- und Raumfahrt), Ftan, CH *Robust Tracking using Visual Constraints and Context*, July 2011.
- [6] Seminar at Center for Processing Speech and Images, Katholic University of Leuven, BL, *Context in Tracking*, September 2010.
- [7] Seminar at Institute of Electrical Measurement and Measurement Signal Processing, Graz University of Technology, A. *Grabner@ETH*. April 2010.
- [8] Seminar at Information: Signals, Images, Systems Research Group (ISIS), Univ. of Southampton, UK. *Learning for Tracking and Lessons Learned from it*. August 2009
- [9] Presentation at Visual Recognition and Geometric Reconstruction Symposium, Vienna, A. *Simplifying Object Detection: Classifier Grids for Learning Robust Adaptive Object Detectors*. April 2009
- [10] Seminar at Robotics Research Group, Univ. of Oxford, UK. *Learning for Tracking and Lessons Learned from it*. March 2009
- [11] Seminar at Visual Cognitive Systems Laboratory (ViCos), Univ. of Ljubljana, SLO. *On-line Learning and the Role of Supervision*. May 2008
- [12] Seminar at Computer Vision Laboratory, ETH-Zürich, CH. *On-line Learning and the Role of Supervision*. April 2008
- [13] Presentation at NFN-Meeting, Leoben, A. *On-line Semi-Supervised Boosting*. November 2007
- [14] Presentation at ACV Colloquium, Vienna, A. *Is Pedestrian Detection Really a Hard Task?*. December 2007
- [15] Presentation at International Computer Vision Summer School (ICVSS), Sicily, I. *On-line Boosting and Vision (Tracking)*. July 2007
- [16] Seminar at The Center for Machine Perception (CMP), Czech Technical University, Prague, SZ. *On-line Boosting and Vision*. October 2006

Awards and Grants

- [1] Top 100 Swiss Startups (with *upicto GmbH*), 2013
- [2] Swisscom Startup Challenge (with *upicto GmbH*), 2013
- [3] CTI Project granted (200 kCHF) together with *upicto GmbH* and *Computer Vision Lab, ETH-Zürich, Switzerland*
- [4] The U. V. Helava Award - Best Paper Volume 63 (2008) for the paper: *H. Grabner, T.T. Nguyen, B. Gruber, and H. Bischof. On-line boosting-based car detection from aerial images. ISPRS Journal of Photogrammetry & Remote Sensing, 63(3):382–396, 2007.*