
Curriculum Vitae

Personal information

First Name(s) / Family Name	Till Kroeger
Address(es)	Zürich
Email(s)	till.kroeger@gmail.com
Nationality(-ies)	German

Education

Oct. 2012 - Sep. 2016 (Estim.)	PhD student at the Computer Vision Laboratory, ETH Zürich (Switzerland) with Professor Luc Van Gool. Associate (Doctoral) Fellow in the Max Planck ETH Center for Learning Systems.
Oct. 2002 - Oct. 2012	Master in Computer Science and Natural Language Processing at the University of Heidelberg (Germany). Thesis on <i>Activity Recognition with Histogram of Flow Features and Multiple Instance Learning</i> with Professor Björn Ommer. (Grade 1.2, Top 5 percent of the year.)
Oct. 2004 - Oct. 2010	Master in History and Middle Eastern Studies at the Universities of Heidelberg (Germany), Sorbonne (France), Damascus (Syria). Thesis on <i>Illegal wine trade in the Eastern Mediterranean under Mamluk rule in the 14th century</i> . (Grade 1.1, Top 5 percent of the year.)
Jun. 2002	High school diploma (Abitur) at the Carl-Severing-Berufskolleg, Bielefeld (Germany). (Grade 2.0, Best student of the year.)

Skills & Experience

Research & Engineering in:	Multi-View Multi-Target Tracking, Structure-from-Motion, Simultaneous Localization and Mapping, Video/Image Registration, Vanishing Point Estimation, Camera Pose Estimation and Tracking, Current work: Real-Time Optical Flow, Depth from Stereo.
Algorithms & Methods:	Linear Programming, Non-Linear Quadratic Optimization, Variational Energy Minimization, Real-Time Processing for Vision Applications, Parallel Processing with OpenMP, OpenMPI and SSE instructions, Development with CUDA and OpenCV.
Coding & Development in:	Mainly C/C++ and Matlab under Linux. Occasionally Mathematica, R, Python, Java.

Publications

- ECCV, 2016
(poster)
T. Kroeger, R. Timofte, D. Dai, L. Van Gool, Fast Optical Flow using Dense Inverse Search.
- CVPR, 2015
(oral & poster)
T. Kroeger, D. Dai, L. Van Gool, Joint Vanishing Point Extraction and Tracking.
- CVPR, 2015
(poster)
D. Dai, T. Kroeger, R. Timofte, L. Van Gool, Metric Imitation by Manifold Transfer.
- BMTT at WACV, 2015
(oral & poster)
T. Kroeger, D. Dai, R. Timofte, L. Van Gool, Discovery of Sets of Mutually Orthogonal Vanishing Points in Videos.
- ECCV, 2014 (poster)
T. Kroeger, L. Van Gool, Video Registration to SfM Models.
- GCPR, 2014 (poster)
T. Kroeger, R. Dragon, L. Van Gool, Multi-View Tracking of Multiple Targets with Dynamic Cameras.
- Scientific Computing &
Cultural Heritage, 2011
A. Monroy, T. Kroeger, M. Arnold, B. Ommer, Parametric Object Detection for Iconographic Analysis.

Languages

Mother tongue(s)

Self-assessment
European level^()*

English

French

Arabic

Turkish

German

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user	B2 Independent user
B1 Independent user	B1 Independent user	A2 Basic user	A2 Basic user	B1 Independent user
A2 Basic user	A2 Basic user	A2 Basic user	A2 Basic user	A2 Basic user

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

Interests & Hobbies

Classical & Jazz Piano, Sailing, Winter-sports, University Debating

Zürich, October 17, 2016