

CURRICULUM VITAE (last update: 9th January 2019)

TOMÁŠ HODAŇ

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Education

PhD degree in computer vision

Czech Technical University in Prague, Center for Machine Perception (2013 – 2019 expected)

Topic of PhD thesis: *Object Detection and 6D Object Pose Estimation*

Supervisor: Prof. Jiří Matas

Master's degree (with honours) in information technology

Brno University of Technology, Faculty of Information Technology (2010 – 2013)

Topic of master's thesis: *Specular Reflection Detection and Removal From Image Sequences* (supervised by Dr. Robby T. Tan and Prof. Adam Herout)

Exchange study programme in game and media technology

Utrecht University, Faculty of Science (2010 – 2011)

Topic of experimentation project: *Depth From Optical Flow* (supervised by Dr. Robby T. Tan)

Bachelor's degree in information technology

Brno University of Technology, Faculty of Information Technology (2007 – 2010)

Topic of bachelor's thesis: *Web Portal for GPS Tracks Processing*

Grammar school

Gymnázium Nový Jičín, Czech Republic (2003 – 2007)

Work Experience

Intern – Google

Munich, Germany (November 2018 – May 2019), working with Stefan Hinterstoisser

Research intern – Microsoft Research

Redmond, USA (June – August 2018), working with Vibhav Vineet, Sudeep Sinha, and Brian Guenter

Computer vision researcher – DARWIN FP7 EU project

Czech Technical University in Prague (2013 – 2015)

Task: Design and implementation of the vision module for an assembly robot

Computer vision researcher – SRS FP7 EU project

Brno University of Technology (2011 – 2012)

Task: Research and development for a domestic robot supporting elderly people

Owner, developer, designer – Enthusio.cz

A company focused on web development (2005 – 2012)

Publications

T. Hodaň, V. Vineet, S. N. Sinha, R. Gal, E. Shalev, J. Hanzelka, T. Connell, P. Urbina, B. Guenter, *Photo-realistic Image Synthesis for Object Instance Detection*, under review

T. Hodaň, F. Michel, E. Brachmann, W. Kehl, A. G. Buch, D. Kraft, B. Drost, J. Vidal, S. Ihrke, X. Zabulis, C. Sahin, F. Manhardt, F. Tombari, T.-K. Kim, J. Matas, C. Rother, *BOP: Benchmark for 6D Object Pose Estimation*, European Conference on Computer Vision (ECCV) 2018, Munich, Germany

T. Hodaň, P. Haluza, Š. Obdržálek, J. Matas, M. Lourakis, X. Zabulis, *T-LESS: An RGB-D Dataset for 6D Pose Estimation of Texture-less Objects*, IEEE Winter Conference on Applications of Computer Vision (WACV) 2017, Santa Rosa, USA

T. Hodaň, J. Matas, Š. Obdržálek, *On Evaluation of 6D Object Pose Estimation*, European Conference on Computer Vision Workshops (ECCVW) 2016, Amsterdam, The Netherlands

T. Hodaň, X. Zabulis, M. Lourakis, Š. Obdržálek, J. Matas, *Detection and Fine 3D Pose Estimation of Texture-less Objects in RGB-D Images*, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2015, Hamburg, Germany

T. Hodaň, D. Damen, W. Mayol-Cuevas, J. Matas, *Efficient Texture-less Object Detection for Augmented Reality Guidance*, IEEE International Symposium on Mixed and Augmented Reality Workshops (ISMARW) 2015, Fukuoka, Japan

T. Hodaň, *Web Portal for GPS Tracks Processing*, In Proceedings of Student EEICT 2010, Brno University of Technology, Czech Republic

Awards

Dean's award for excellent Master's thesis, Brno University of Technology (2013)

Teaching

Pattern Recognition and Machine Learning – a course at the Faculty of Electrical Engineering, Czech Technical University in Prague (taught in academic years 2013/14, 2014/15, 2017/18)

Supervised students – Pavel Zedník (MSc. thesis, 2015), Pavel Haluza (Bc. thesis, 2017)

Other Activities

The SIXD Challenge – http://cmp.felk.cvut.cz/sixd/challenge_2017/

Workshops on Recovering 6D Object Pose – co-organized at ICCV'15, ECCV'16, ICCV'17, ECCV'18

Skills

Languages – **Czech** (mother tongue), **English** (fluent), **German** (elementary level)

Programming languages/libraries – Python, C/C++, Matlab, TensorFlow, OpenCV, OpenGL, ROS, ...

3D modelling and image editing – Blender, Maya, Photoshop