CURRICULUM VITAE (last update: 30. 11. 2017)

TOMÁŠ HODAŇ

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Education

PhD degree in computer vision
Czech Technical University in Prague, Center for Machine Perception (2013 – 2018 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

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)

Awards

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

Publications

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

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 – the goal is to establish the state of the art in 6D object pose estimation (http://cmp.felk.cvut.cz/sixd/challenge_2017/)

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

Skills

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

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

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

Personal Interests

Intersection of math, digital technology and visual information, where the field of computer vision lies

Sport (tennis, badminton, windsurfing, snowboarding), traveling, books, movies, painting