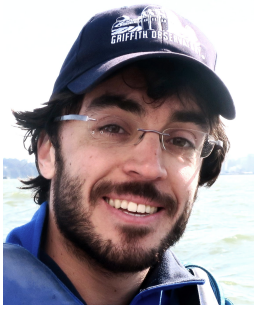
CURRICULUM VITAE (last update: September 29th, 2020)

TOMÁŠ HODAŇ



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Education

PhD degree in computer vision
Czech Technical University in Prague, Center for Machine Perception (2013 – 2020 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)
Master's thesis topic: *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)
Bachelor's thesis topic: *Web Portal for GPS Tracks Processing*

Work Experience

PhD 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, Sudipta 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, D. Baráth, J. Matas, *EPOS: Estimating 6D Pose of Objects with Symmetries*, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020, Seattle, USA

Y. Patel, **T. Hodaň**, J. Matas, *Learning Surrogates via Deep Embedding*, European Conference on Computer Vision (ECCV) 2020, Glasgow, Scotland

T. Hodaň, M. Sundermeyer, B. Drost, Y. Labbé, E. Brachmann, F. Michel, C. Rother, J. Matas, *BOP Challenge 2020 on 6D Object Localization*, European Conference on Computer Vision Workshops (ECCVW) 2020, Glasgow, Scotland

T. Hodaň, V. Vineet, S. N. Sinha, R. Gal, E. Shalev, J. Hanzelka, T. Connell, P. Urbina, B. Guenter, *Photorealistic Image Synthesis for Object Instance Detection*, IEEE International Conference on Image Processing (ICIP) 2019, Taipei, Taiwan

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

Co-organized workshops on 6D object pose estimation – ICCV'15, ECCV'16, ICCV'17, ECCV'18, ICCV'19, ECCV'20 (http://cmp.felk.cvut.cz/sixd/workshop_2020)

Co-organized challenges on 6D object pose estimation – https://bop.felk.cvut.cz