Jan Čech – CURRICULUM VITAE

Current position

Assistant Professor at Center for Machine Perception, Department of Cybernetics, Faculty of Electrical Engineering (FEE), Czech Technical University (CTU) in Prague.

Basic facts and qualification

In 2002 graduated Ing. (similar to MSc.) with honors in Technical Cybernetics from CTU in Prague, In 2009 received a Ph.D. in Cybernetics from CTU. Speaks English (fluent), French (conversational), and Czech (mother tongue).

Professional experience

Jan. 2013 – now	*Assistant Professor at Center for Machine Perception* - Department of Cybernetics, FEE, CTU, Prague
Feb. 2010 – Dec. 2012	*Postdoctoral researcher* - INRIA, Grenoble, France - EU project FP7-ICT-247525 HUMAVIPS
Mar. 2002 – Jan. 2010	*Stereovision, signal processing* - Center for Machine Perception (CTU) - PhD research, supervised by Radim Šára
Apr. 2006 – Oct. 2009	*Interpretation of man-made scenes* - Center for Machine Perception (CTU) - EU project FP6-IST-027113 eTRIMS
Sep. 2004 – Dec. 2004	*Accurate Stereoscopic Matching* - National Institute of Informatics, Tokyo, Japan - research fellowship
Oct. 2000 – Dec. 2002	*Measurement of the temporomandibular joint trajectory* - Center for Machine Perception (CTU) & Dental Research Center - Master thesis
Jul. 2001 – Aug. 2001	*Hand drawn sketch recognition* - University of Malta - IAESTE training
Feb. 2001 – Jun. 2001	*Interferogram Interpretation* - Czech Academy of Science, Institute of Thermo-mechanics

Other professional activities

Teaching (courses at CTU in 2002-2009 and 2013-now):
- Image processing, Computer vision methods, Optimization, Robotics

Master's and Bachelor's theses advising
- 15 theses defended. Awarded theses: Tereza Soukopová 2016 – Cisco outstanding thesis award (2nd place); Radim Špetlík 2018 – Award of the Dean, Czech & Slovak ACM chapter of the IT SPY "best IT Master thesis of the year" competition – shortlisted; Adéla Šubrtová 2021 – Award of the Dean

Reviewing
- major computer vision conferences (CVPR, ICCV, ECCV), robotics (ICRA)
- journals: IEEE Trans. on PAMI, on Image Processing, on Multimedia, on Information Forensics and Security, Image and Vision Computing, IET Computer Vision

Awards

2016   Best paper award at Computer Vision Winter Workshop of "Tereza Soukupová, Jan Čech, Jiří Matas. Real-Time Eye Blink Detection using Facial Landmarks."

2010   Award of the President of CTU for the doctoral thesis entitled "Accurate and Robust Stereoscopic Matching in Efficient Algorithms" (advisor: Radim Šára)

2007   Best paper award at BenCOS CVPR Workshop of "Jana Kostliva, Jan Cech, Radim Sara. Feasibility Boundary in Dense and Semi-Dense Stereo Matching."

2002   Award of the Dean of FEE CTU for the master thesis entitled "Měření tvaru kloubní dráhy spodní čelisti" (advisor: Vladimír Smutný)

Publication statistics (Google Scholar, September 2021)

1335 citations, h-index 18, i_{10}-index 26.

Selected publications

J. Čech, J. Matas, M. Perďoch. Efficient Sequential Correspondence Selection by Cosegmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*. 32(9):1568-1581. 2010

K. Kulkarni, G. Evangelidis, J. Čech, R. Horaud. Continuous action recognition based on sequence alignment. *International Journal of Computer Vision*. 112(1):90-114. 2015.

J. Čech, V. Franc, M. Uřičář, J. Matas. Multi-view facial landmark detection by using a 3D shape model. *Image and Vision Computing*. 47(3):60-70. 2016.

V. Franc, J. Čech. Learning CNNs from Weakly Annotated Facial Images. *Image and Vision Computing*. 77(9):10-20. 2018.

J. Čech, T. Haniš, A. Konopiský, T. Rurtle, J. Švancar, T. Twardzik. Self-Supervised Learning of Camera-based Drivable Surface Roughness. In Proc. *IEEE Intelligent Vehicles Symposium*, 2021.

P. Jahoda, A. Vobecký, J. Čech, J. Matas. Detecting Decision Ambiguity from Facial Images. In Proc. *Face and Gestures*, 2018.

V. Gandhi, J. Čech, R. Horaud. High-resolution depth maps based on TOF-stereo fusion. In Proc. *ICRA*, 2012.

J. Čech, J. Sanchez-Riera, R. Horaud. Scene Flow Estimation by Growing Correspondence Seeds. In Proc. *CVPR,* 2011.

In Prague, September 24, 2021