

Czech Institute of Informatics, Robotics and Cybernetics
Czech Technical University in Prague
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Education

Czech Technical University <i>PhD, Computer Science</i> Thesis: “Methods for the Rectification of Imaged Coplanar Repeated Patterns”	Prague, Czechia	2020
Czech Technical University <i>MSc, Computer Science</i>	Prague, Czechia	2013
The University of North Texas <i>BSc, Mathematics</i>	Denton, TX	2002

Academic Appointments

Czech Inst. of Informatics, Robotics & Cybernetics <i>Research Fellow</i>	Prague, Czechia	2022 – Now
Chalmers University of Technology <i>Post-Doctoral Research Scientist</i>	Gothenburg, Sweden	2021
Facebook Reality Labs, AR/VR <i>Post-Doctoral Research Scientist</i>	Pittsburgh, PA	2019 – 2021

Publications

- E. Dexheimer, P. Peluse, J. Chen, **J. Pritts**, and M. Kaess. Information-theoretic online multi-camera extrinsic calibration. *IEEE Robotics and Automation Letters*, 7(2):4757–4764, 2022
- Y. Lochman, K. Liepieshov, J. Chen, M. Perdoch, C. Zach, and **J. Pritts**. Babelcalib: a universal approach to calibrating central cameras. In *ICCV*, 2021
- Y. Lochman, O. Doboševych, R. Hryniv, and **J. Pritts**. Minimal Solvers for Single-View Auto-Calibration. In *WACV*, 2021
- J. Pritts**, Z. Kukulova, V. Larsson, Y. Lochman, and O. Chum. Minimal solvers for rectifying from radially-distorted conjugate translations. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 43(11):3931–3948, 2021
- J. Pritts**, Z. Kukulova, V. Larsson, Y. Lochman, and O. Chum. Minimal Solvers for Rectifying from Radially-Distorted Scales and Change of Scales. *International Journal of Computer Vision*, 128(4):950–968, 2020
- J. Pritts**, Z. Kukulova, V. Larsson, and O. Chum. Rectification from Radially-Distorted Scales. In *ACCV*, 2018
- J. Pritts**, Z. Kukulova, V. Larsson, and O. Chum. Radially-Distorted Conjugate Translations. In *CVPR*, 2018
- J. Pritts**, D. Rozumnyi, M. P. Kumar, and O. Chum. Coplanar Repeats by Energy Minimization. In *BMVC*, 2016
- J. Pritts**, O. Chum, and J. Matas. Detection, Rectification and Segmentation of Coplanar Repeated Patterns. In *CVPR*, 2014
- J. Pritts**, O. Chum, and J. Matas. Approximate Models for Fast and Accurate Epipolar Geometry Estimation. In *IVCNZ*, 2013

Awards

- Asian Conference on Computer Vision (ACCV) Saburo Tsuji Best Paper Award for “Rectification from Radially-Distorted Scales” 2018
- Image and Vision Computing New Zealand (IVCVNZ) Best Paper Award for “Approximate Models for Fast and Accurate Epipolar Geometry Estimation” 2013

Advising

MSc Students

- Yaroslava Lochman Ukrainian Catholic University 2018 – 2020
Thesis: “Minimal Solvers for Single-View Auto-Calibration”
moved on to PhD student at Chalmers University of Technology

BSc Students

- Ostap Viniavskyi Ukrainian Catholic University 2019 – 2021
Thesis: “Learning Discriminative Context-Aware Keypoints Representations for Resolving Ambiguous Matches”
moved on to Researcher at The ML Lab at Ukrainian Catholic University
- Kostiantyn Liepieshov Ukrainian Catholic University 2019 – 2021
Thesis: “Manhattan-Frame Detection in Lens-Distorted Images”
moved on to MSc student at Ukrainian Catholic University

Funding

- Principal* Facebook Sponsored Research Agreement 2020
“Calibration of Head-Mounted Multi-Camera Capture Systems”
Awarded: \$25,000
- Contributing* Facebook Sponsored Research Agreement 2020 – 2021
“In-the-field Extrinsic Calibration of Multi-camera Systems”
Awarded: \$150,000

Professional Service Activity

- Reviewer* CVPR, ICCV, ECCV, 3DV, WACV, ACCV, IJCV
- Tutorial Organizer* “Affine Correspondences and Their Applications” CVPR 2022

Teaching

- Image Retrieval 2017 – 2018
MSc level, Ukrainian Catholic University
- Pattern Recognition and Machine Learning 2013 – 2018
BSc level, Czech Technical University in Prague

Invited Talks and Lectures

- CVPR Tutorial Talk June 19, 2022
“Just One Image is All It Takes...” New Orleans, LA
- Facebook Reality Labs June 14, 2018
“Minimal Solvers and Multi-Model Estimators for Image Undistortion and Scene-Plane Rectification” Pittsburgh, PA
- The Aspen Institute’s 2018 Young Leader’s Program March 17, 2018
“Opportunities and Risks of Artificial Intelligence” Tále, Slovakia
- The Eastern European Computer Vision Conference July 14, 2017
“Detection, Rectification, and Segmentation of Coplanar Repeated Patterns” Odessa, Ukraine
- The 34th Pattern Recognition and Computer Vision Colloquium April 3, 2014
“Detection, Rectification, and Segmentation of Coplanar Repeated Patterns” Prague, Czechia