TOMASZ KONOPCZYŃSKI

Email: konopczynski.tomasz@gmail.com **Phone:** 0048 693 501 032
LinkedIn: linkedin.com/in/konopczynski **github:** github.com/konopczynski
Address: Węgierska 1/21, 65-941 Zielona Góra, Poland

EDUCATION

Heidelberg University   November 2015 - Present
Doctor of Philosophy (PhD)
Faculty of Mathematics and Computer Science,
Experimental Radiation Oncology, Mannheim Medical Center,
Interdisciplinary Center for Scientific Computing (IWR),
Heidelberg Collaboratory for Image Processing (HCI)

University of Padua   July 2017
Secondment
Department of Management and Engineering

Catholic University of Leuven   June 2014
Exchange Programme
Department of Neurosciences

Wrocław University of Science and Technology   July 2014
Master of Science
Faculty of Electronics, Control Engineering and Robotics

Wrocław University of Science and Technology   January 2012
Bachelor of Science
Faculty of Electronics, Control Engineering and Robotics

EXPERIENCE

Tooploox   July 2018 - Present
Machine Learning Researcher
Leading and managing commercial machine learning projects on detection and recognition for 2D and
3D data. Leading research project on incremental and multi-modal learning. Taking part in new leads
evaluation and representing the AI team inside and outside the company.

Volume Graphics   May 2017 - April 2018
Early Stage Researcher
Development of advanced machine and deep learning algorithms for CT 3D scans of industrial and
medical data segmentation. Taking part in the Marie Curie ESR Project InteraqCT an International
Network for the Training of Early stage Researchers on Advanced Quality control by Computed Tomography.

Tieto   September 2014 - April 2015
Software Engineer
Core OS team for mobile devices.

IMEC December 2013 - June 2014

International Scholar

Development of scale-space based segmentation and identification of cells in microscopic images.

Neurosoft August 2013 - November 2013

Software Engineer

Image and signal processing for real-time analysis of traffic scenes.

European Space Agency July 2012 - January 2013

Trainee

Work on the spectral processing pipeline of the Fourier-Transform Spectroscopy in the far-infrared spectral domain for the Herschel Space Observatory.

IBM July 2011 - August 2011

Trainee

Training on internal IBM software solutions.

WORKSHOPS & PRESENTATIONS

Roth K, Hesser J, **Konopczyński T**. Mask Mining for Improved Liver Lesion Segmentation. Medical Imaging meets NeurIPS workshop (med-NeurIPS), Vancouver, Canada. 2019

Koperski M*, **Konopczyński T***, Semberecki P, Trzcinski T. Plugin Networks for Inference under Partial Evidence. ML in PL Conference 2019, Warsaw, Poland. 2019 *Equal contribution

Konopczyński T, Kröger T, Zheng L, Hesser J. Instance segmentation of fibers from low resolution ct scans via 3d deep embedding learning. ML in PL Conference, Warsaw, Poland. 2018

Konopczyński T, Kröger T, Zheng L, Garbe CS, Hesser J. Automated multiscale 3D feature learning for segmentation of vessels in CT images of human lungs. Dimensional X-ray Computed Tomography Conference, Teddington, United Kingdom. 2016

PUBLICATIONS

Roth K, Hesser J, **Konopczyński T**. Mask Mining for Improved Liver Lesion Segmentation. International Symposium on Biomedical Imaging (ISBI). 2020

Fotiadou E, **Konopczyński T**, Hesser J, Vullings R. End-to-End Trained CNN Encoder-Decoder Network for Fetal ECG Signal Denoising. Physiological Measurement. 2020

Rathore JS, **Konopczyński T**, Hesser J, Lucchetta G, Carmignato S. Investigation on Tomographic Based NDT Characterization of Short Glass Fiber Reinforced Composites as Obtained from Micro Injection Molding. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems (JNDE). 2020

Koperski M*, **Konopczyński T***, Semberecki P, Trzcinski T; Plugin Networks for Inference under Partial Evidence; Winter Conference on Applications of Computer Vision (WACV). 2020 *Equal contribution

Fotiadou E, **Konopczyński T**, Hesser J, Vullings R. Deep Convolutional Encoder-Decoder Framework for Fetal ECG Signal Denoising. Computing In Cardiology (CiC). 2019

Bilic P, Christ PF, Vorontosv E, Chlebus G, **Konopczyński T**, et al. The liver tumor segmentation benchmark (LiTS). arXiv preprint arXiv:1901.04056. 2019

Konopczyński T, Kröger T, Zheng L, Hesser J. Instance segmentation of fibers from low resolution ct scans via 3d deep embedding learning. The British Machine Vision Conference (BMVC). 2018

Konopczyński T, Rathore D, Rathore J, Kröger T, Zheng L, Garbe CS, Carmignato S, Hesser J. Fully Convolutional Deep Network Architectures for Automatic Short Glass Fiber Semantic Segmentation from CT scans. Conference on Industrial Computed Tomography (iCT). 2018

Konopczyński T, Rathore J, Kröger T, Zheng L, Garbe CS, Carmignato S, Hesser J. Reference Setup for Quantitative Comparison of Segmentation Techniques for Short Glass Fiber CT Data. Conference on Industrial Computed Tomography (iCT). 2017

Konopczyński T, Kröger T, Zheng L, Garbe CS, Hesser J. Automated multiscale 3D feature learning for vessels segmentation in Thorax CT images. In Nuclear Science Symposium, Medical Imaging Conference and Room-Temperature Semiconductor Detector Workshop (NSS/MIC/RTSD), 2016 Oct 29 (pp. 1-3). IEEE.

Prodanov D, **Konopczyński T**, Trojnar M. Selected Applications of Scale Spaces in Microscopic Image Analysis. Cybernetics and Information Technologies. 2015 Dec 1;15(7):5-12.

Valtchanov I, Hopwood R, Polehampton E, Benielli D, Fulton T, Imhof P, **Konopczyński T**, Lim T, Lu N, Marchili N, Naylor D. Relative pointing offset analysis of calibration targets with repeated observations with Herschel-SPIRE Fourier-transform spectrometer. Experimental Astronomy. 2014 Jul 1;37(2):207-23.