Amirhossein Kardoost

amirhk-dev.github.io
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Education

University of Siegen
Ph.D. Computer Science
05/2022-02/2023, Siegen, Germany

University of Mannheim
Researcher Ph.D. Student
08/2017-04/2022, Mannheim, Germany

Saarland University
M.Sc. Computer Science
03/2013-07/2017, Saarbrücken, Germany

Institute for Advanced Studies in Basic Sciences (IASBS)
B.Eng. Information Technology
09/2008-08/2012, Zanjan, Iran

Work Experience

European XFEL
Software Developer-with a focus on AI and Computer Vision
02/2021-Now, Schenefeld, Germany

Fraunhofer Institute (IZFP)
Research Assistant, Estimation of Texture Orientation on Fibers
01/2015-12/2015, Saarbrücken, Germany

German Research Center for Artificial Intelligence (DFKI)
Research Assistant, Mobia Project
01/2014-12/2014, Saarbrücken, Germany

Max-Planck-Institute for Informatics (MPI)
Research Assistant, 3D Reconstruction of Visual Information
05/2013-02/2014, Saarbrücken, Germany

Theses	**Ph.D.'s Thesis** Minimum Cost Multicuts for Image and Motion Segmentation **Master's Thesis** Alignment of Tilt-Series by Non-Convex Optimization **Bachelor's Thesis** Face Detection and Recognition with OpenCV Library
Publications	[1] E. Levinkov*, <u>A. Kardoost</u>*, B. Andres, M. Keuper Higher-Order Multicuts for Geometric Model Fitting and Motion Segmentation TPAMI'22 [2] <u>A. Kardoost</u> and M. Keuper Uncertainty in Minimum Cost Multicuts for Image and Motion Segmentation UAI'21 [3] <u>A. Kardoost</u>, K. Ho, P. Ochs, M. Keuper Self-supervised Sparse to Dense Motion Segmentation ACCV'20 [4] <u>A. Kardoost</u>, S. Müller, J. Weickert, M. Keuper Object Segmentation Tracking from Generic Video Cues ICPR'20 [5] <u>A. Kardoost</u> and M. Keuper Solving Minimum Cost Lifted Multicut Problems by Node Agglomeration ACCV'18 [6] K. Ho, <u>A. Kardoost</u>, F.-J. Pfreundt, J. Keuper, M. Keuper A Two-Stage Minimum Cost Multicut Approach to Self-Supervised Multiple Person Tracking ACCV'20 [7] S. Jung, S. Ziegler, <u>A. Kardoost</u>, M. Keuper Optimizing Edge Detection for Image Segmentation with Multicut Penalties GCPR'22

Academic Activities	**Reviewing Papers** in CVPR, ICCV, AAAI, BMVC
	Summer School participation in International Computer Vision Summer School **(ICVSS)** 07/2019, Sicily, Italy
	Visiting Researcher in Max-Planck-Institute for Informatics **(MPI)** Computer Vision Group 01/2019-02/2019, Saarbrücken, Germany
Honors and Awards	**Rank 2 in Computer Science Department of (IASBS)** (Among top 10% of Class) 05/2012, Zanjan, Iran
	50% Tuition Scholarship from Tagliatela College of Engineering 09/2012, Boston, USA
Computer Skills	**Machine Learning** • PyTorch, Keras, TensorFlow
	Programming Languages • Python, C++, C#
	Web Developement • HTML, CSS, JavaScript, jQuery, EJS, Node.js
	Database Management System • MySQL, PostgreSQL
	Programming Libraries • OpenCV, OpenGL
Language Skills	English (Fluent) German (Intermediate)