Amirhossein Kardoost

amirhk-dev.github.io
LinkedIn | Google Scholar

Education

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

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

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

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

Work Experience

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

Fraunhofer Institute (IZFP)
Research Assistant, Estimation of Texture Orientation on Fibers
Saarbrücken, Germany, January, 2015 - December, 2015

German Research Center for Artificial Intelligence (DFKI)
Research Assistant, Mobia Project
Saarbrücken, Germany, January, 2014 - December, 2014

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

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)** Sicily, Italy, July, 2019
	Visiting Researcher in Max-Planck-Institute for Informatics **(MPI)** Computer Vision Group January, 2019 - February, 2019, Saarbrücken, Germany
Honors and Awards	**Rank 2 in Computer Science Department of (IASBS)** (Among top 10% of Class) Zanjan, Iran, May, 2012
	50% Tuition Scholarship from Tagliatela College of Engineering Boston, USA, September, 2012
Computer Skills	**Machine Learning**

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)