

Amirhossein Kardoost

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Websites: [LinkedIn](#), [Personal Website](#)



Education

University of Mannheim

Ph.D., Computer Science, Mannheim, Germany, 2017 - 2021

Saarland University

M.Sci., Computer Science, Saarbrücken, Germany, 2013 - 2017

Institute for Advanced Studies in Basic Sciences (IASBS)

B.Eng., Information Technology, Zanjan, Iran, 2008 - 2012

Research Interests

Machine Learning and Pattern Recognition

Image Analysis and Computer Vision

Video Object and Motion Segmentation

Alignment of Electron Microscopy Images

Work Experience

Software Developer

European XFEL, Schenefeld, Germany

February.2021 - Now

Research Assistant Experience

Estimation of Texture Orientation

Fraunhofer Institute for Nondestructive Testing (**IZFP**)

Saarbrücken, Germany

January.2015 - December.2015

Mobia Project

German Research Center for Artificial Intelligence (**DFKI**)

Saarbrücken, Germany

January.2014 - December.2014

3D Reconstruction of Visual Information

Max-Planck-Institute for Informatics (**MPI**)

Saarbrücken, Germany

May.2013 - February.2014

Theses

Ph.D.'s Thesis

Video Object and Motion Segmentation

Projects Implemented in **C++**, **CUDA**, **MATLAB**, **Python**, and **PyTorch**

Master's Thesis

Alignment of Tilt-Series by Non-Convex Optimization

Implemented in **C++**

Bachelor's Thesis

Machine vision - Detection and Recognition of Face with **OpenCV** Library

Implemented in **C++**

Publications

[1] Higher-Order Multicuts for Geometric Model Fitting
and Motion Segmentation

Evgeny Levinkov*, **Amirhossein Kardoost***, Bjoern Andres, Margret Keuper
TPAMI Journal 2022

[2] Solving Minimum Cost Lifted Multicut Problems by Node Agglomeration

Amirhossein Kardoost and Margret Keuper

ACCV 2018

Project Website

[3] Object Segmentation Tracking from Generic Video Cues

Amirhossein Kardoost, Sabine Müller, Joachim Weickert, Margret Keuper

ICPR 2020

YouTube Link

[4] Self-supervised Sparse to Dense Motion Segmentation

Amirhossein Kardoost, Kalun Ho, Peter Ochs, Margret Keuper

ACCV 2020

[5] Uncertainty in Minimum Cost Multicuts for Image and Motion Segmentation

Amirhossein Kardoost and Margret Keuper

UAI 2021

[6] A Two-Stage Minimum Cost Multicut Approach to Self-Supervised
Multiple Person Tracking

Kalun Ho, **Amirhossein Kardoost**, Franz-Josef Pfreundt, Janis Keuper,

Margret Keuper

ACCV 2020

Paper Reviewer	CVPR 2021, 2022 ICCV 2021 AAAI 2021 BMVC 2020
Summer School	International Computer Vision Summer School (ICVSS) July.2019, Sicily, Italy
Visiting Researcher	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 Libraries <ul style="list-style-type: none"> • PyTorch, • Keras, • TensorFlow Programming Languages <ul style="list-style-type: none"> • C, • C++, • Python • C#, • MATLAB, Web Development <ul style="list-style-type: none"> • HTML, CSS, Javascript, jQuery, EJS, Node.js Database Management System <ul style="list-style-type: none"> • MySQL • PostgreSQL Programming Libraries <ul style="list-style-type: none"> • OpenCV, • OpenGL
Language Skills	English (Fluent) German (Intermediate)