

Amirhossein Kardoost

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



Education

University of Mannheim

Scientific Researcher, Mannheim, Germany, 2017 - 2021

University of Mannheim

Ph.D. Student, Mannheim, Germany, 2017 - Now
(Thesis yet to be submitted)

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
Video Object and Motion Segmentation

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

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

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| 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) |