



Ali Diba

Leuven/Belgium | +32479681623

ali.diba67@gmail.com

 Github

 LinkedIn

 Google scholar

SUMMARY

15+ years of experience in **computer vision and machine learning** and solving different problems in the field of video and image understanding and deep neural networks. Passionate about designing scalable visual understanding systems with deep neural networks and efficient on-Edge CV/ML algorithms. Major experience lies in strategizing and leading cross-functional R&D teams (20+ people) to deliver high-quality CV/ML products, both as a scientist and leader.

EDUCATION

KU LEUVEN

2016-2021

PH.D. IN COMPUTER VISION, SCHOLARSHIP HOLDER

- Large-scale video understanding, Human Action analysis, Self-supervised learning, and Deep neural networks

SHARIF UNIVERSITY OF TECHNOLOGY

2012-2014

M.S IN ARTIFICIAL INTELLIGENCE

- Scene classification By Segmented frames from Video streams

EXPERIENCE

KU LEUVEN

2015-Current / Belgium

RESEARCHER IN COMPUTER VISION AND DEEP LEARNING

- Large-scale video understanding
- Scalable neural network models
- Self-supervised learning
- Object detection in images and videos

SENSIFAI

2016-2022 / Belgium

Co-FOUNDER AND CTO

- Multi-modal audio-visual video and image analysis SaaS on AWS
- SaaS-based CV/ML solutions for media monitoring
- Scalable CV/ML auto-training models and MLOps on AWS SageMaker
- Efficient video understanding engine based on mobile devices like Huawei and Samsung
- on-Edge CV solutions: face detection/recognition, activity understanding, traffic monitoring

SHARIF UNIVERSITY OF TECHNOLOGY

2012-2014 / Iran

RESEARCH AND TEACHING ASSISTANT

- Computer vision and machine learning

VIRATECH SHARIF Co.,

2012-2013 / Iran

COMPUTER VISION ENGINEER

- Automatic image tagging, OCR, and Topic modeling of texts

SKILLS

PROGRAMMING LANGUAGES	Experienced: Python C++ Familiar: C Objective-C Bash
SOFTWARE DEVELOPMENT	Programming Paradigms GIT CLI Agile Methodology DevOps Lifecycles
FRAMEWORKS & LIBRARIES	Jupyter OpenCV Numpy Pandas Scikit-learn Gym PyTorch Tensorflow
PLATFORMS	Linux Windows MacOS
LANGUAGES	Native: Farsi Fluent: English Beginner: Dutch

SELECTED PUBLICATION

I HAVE MORE THAN 25 PAPERS IN TOP-TIER CONFERENCES AND JOURNALS FOR COMPUTER VISION AND MACHINE LEARNING.

- Vi2CLR: Video and Image for Visual Contrastive Learning of Representation”, Ali Diba, Vivek Sharma, Reza Safdari, Dariush Lotfi, Saquib Sarfraz, Rainer Stiefelhagen, Luc Van Gool, **IEEE ICCV 2021**
- Temporally-Weighted Hierarchical Clustering for Unsupervised Action Segmentation”, M Saquib Sarfraz, Naila Murray, Vivek Sharma, Ali Diba, Luc Van Gool, Rainer Stiefelhagen, **IEEE CVPR 2021**
- Large Scale Holistic Video Understanding”, Ali Diba, Mohsen Fayyaz, Vivek Sharma, Manohar Paluri, Jurgen Gall, Rainer Stiefelhagen, Luc Van Gool, **ECCV 2020**
- DynamoNet: Dynamic Action and Motion Network”, Ali Diba, Vivek Sharma, Rainer Stiefelhagen, Luc Van Gool, **IEEE ICCV 2019**
- Temporal 3D ConvNets using Temporal Transition Layer”, Ali Diba, Mohsen Fayyaz, Vivek Sharma, A Hossein Karami, M Mahdi Arzani, Rahman Yousefzadeh, Luc Van Gool, **IEEE CVPR 2018**
- Spatio-Temporal Channel Correlation Networks for Action Classification”, Ali Diba, Mohsen Fayyaz, Vivek Sharma, M Mahdi Arzani, Rahman Yousefzadeh, Juergen Gall, Luc Van Gool, **ECCV 2018**

ACADEMIC SERVICES

- Reviewer for Journals: IEEE PAMI, IEEE TRANSACTION ON IMAGE PROCESSING.
- Reviewer for Conferences: IEEE CVPR, IEEE ICCV, ECCV, NEURIPS, ICLR, WACV, ACCV.
- Workshop and Tutorials: LARGE SCALE HOLISTIC VIDEO UNDERSTANDING IN CONJ. WITH ICCV’19, ECCV’20, CVPR21, ICCV’21, CVPR’22