Wei Lin (Mr.)

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Research interests

Vision-language models, multimodal learning, domain adaptation, video understanding

Education

Graz University of Technology Graz, Austria
PhD in Computer Science Jan 2019 – Present
Mentors:
Prof. Horst Bischof (Graz University of Technology)
Prof. Hilde Kuehne (Goethe University Frankfurt, MIT-IBM Watson AI lab)

Technical University of Munich Munich, Germany
M.Sc. in Electrical and Computer Engineering Oct 2015 - Jul 2018
Mentors: Prof. Eckehard Steinbach

Beihang University Beijing, China
B.E. in Electronic and Information Engineering Sep 2011 - Jun 2015

Publications

MAtch, eXpand and Improve: Unsupervised Finetuning for Zero-Shot Action Recognition with Language Knowledge
Wei Lin, Leonid Karlinsky, Nina Shvetsova, Horst Possegger, Mateusz Kozinski, Rameswar Panda, Rogerio Feris, Hilde Kuehne, Horst Bischof
In collaboration with the MIT-IBM Watson AI Lab
International Conference on Computer Vision (ICCV) 2023

LaFTer: Label-Free Tuning of Zero-shot Classifier using Language and Unlabeled Image Collections
Muhammad Jehanzeb Mirza, Leonid Karlinsky, Wei Lin, Mateusz Kozinski, Horst Possegger, Rogerio Feris, Horst Bischof
Conference on Neural Information Processing Systems (NeurIPS) 2023

MATE: Masked Autoencoders are Online 3D Test-Time Learners
*Muhammad Jehanzeb Mirza, *Inkyu Shin, *Wei Lin, Andreas Schriebl, Kunyang Sun, Jaesung Choe, Horst Possegger, Mateusz Kozinski, In So Kweon, Kun-Jin Yoon, Horst Bischof (*equal contribution)
International Conference on Computer Vision (ICCV) 2023

TAP: Targeted Prompting for Task Adaptive Generation of Textual Training Instances for Visual Classification

Muhammad Jehanzeb Mirza, Leonid Karlinsky, Wei Lin, Horst Possegger, Rogerio Feris, Horst Bischof
Arxiv 2023

Video Test-Time Adaptation for Action Recognition
*Wei Lin, *Muhammad Jehanzeb Mirza, Mateusz Kozinski, Horst Possegger, Hilde Kuehne, Horst Bischof (*equal contribution)
Conference on Computer Vision and Pattern Recognition (CVPR) 2023

ActMAD: Activation Matching to Align Distributions for Test-Time-Training
Muhammad Jehanzeb Mirza, Pol Jané Soneira, Wei Lin, Mateusz Kozinski, Horst Possegger, Horst Bischof
Conference on Computer Vision and Pattern Recognition (CVPR) 2023

CycDA: Unsupervised Cycle Domain Adaptation to Learn from Image to Video
Wei Lin, Anna Kukleva, Kunyang Sun, Horst Possegger, Hilde Kuehne, Horst Bischof
European Conference on Computer Vision (ECCV) 2022

Extended Abstract CycDA: Unsupervised Cycle Domain Adaptation to Learn from Image to Video
Wei Lin, Anna Kukleva, Kunyang Sun, Horst Possegger, Hilde Kuehne, Horst Bischof
ECCV 2022 Workshop of Out Of Distribution Generalization in Computer Vision, 2022

Unsupervised Class-aware 3D Object Detection in LiDAR Point Clouds
Christian Fruhwirth-Reisinger, Wei Lin, Dusan Malic, David Schinagl, Georg Krispel, Horst Possegger, Horst Bischof
Arxiv 2023

AIR-DA: Adversarial Image Reconstruction for Unsupervised Domain Adaptive Object Detection
Kunyang Sun, Wei Lin, Haoqin Shi, Zhengming Zhang, Yongming Huang, Horst Bischof
IEEE Robotics and Automation Letters (RA-L) 2023

TAEC: Unsupervised Action Segmentation with Temporal-Aware Embedding and Clustering
Wei Lin, Anna Kukleva, Horst Possegger, Hilde Kuehne, Horst Bischof
Computer Vision Winter Workshop 2023

Review service

ECCV 2022, ISMAR 2023, CVPR 2023, NeurIPS 2023, WACV 2024, T-PAMI 2023

Honors and scholarships

Scholarship for Foreign Students (Technical University of Munich) 06.2016
Scholarship for Foreign Students (Technical University of Munich) 06.2017

Industry experience

Robert Bosch GmbH, Corporate Research Hildesheim, Germany
Research Internship Oct 2017 - May 2018
Master's Thesis : 3D Human Pose-based Action Recognition

Robert Bosch GmbH, Corporate Research Leonberg, Germany
Research Internship Feb 2017 - Jul 2017
Project: Road surface estimation from monocular video data based on P-Spline regression and 3D reconstruction

Skills

Programming
Proficient in: Python, C++

Languages
English, German, Chinese