Tuyen Tran

Applying for: AI Researcher

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Education

University of Engineering and Technology – Vietnam National University GPA: 3.73/ 4 (Top 1 in the faculty)
Bachelor of Electronics and Communications (International standard program) 08/2015 - 06/2019

Hanoi - Amsterdam High School for The Gifted GPA: 9.2/10
Specialized in mathematics 08/2012 – 06/2015

Publications

P1 **Unified Compositional Query Machine with Multimodal Consistency for Video-based Human Activity Recognition**
Tuyen Tran, Thao Le, Hung Tran, Truyen Tran.
British Machine Vision Conference (BMVC 2024), 25-28 November 2024, Glasgow, UK

P2 **Unified Framework with Consistency across Modalities for Human Activity Recognition**
Tuyen Tran, Thao Le, Hung Tran, Truyen Tran.
4th International Workshop on Deep Learning for Human Activity Recognition, IJCAI 2024

P3 **Synthesizing Image with High-Quality Segmentation Mask by Prompting Large Vision Model**
Tuyen Tran
Generative Models for Computer Vision, CVPR 2024 Workshop.

P4 **Defect Detection Based on Singular Value Decomposition and Histogram Thresholding**
Tuyen Tran, Tran Hiep Dinh, Ha Vu Le, Qiuchen Zhu, Quang Ha.
IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM 2020), 6-10 July 2020, Boston.

P5 **A Variable Precision Approach for Deep Neural Networks**
Tuyen Tran, Duy-Anh Nguyen, Duy-Hieu Bui, Xuan-Tu Tran.
International Conference on Advanced Technologies for Communications (ATC), 17-19 October 2019, Hanoi.

Experience

PhD Candidate Deakin University, Australia 03/2022 - Present

- Develop a unified deep learning model capable of handling various types of interactions in human-centric videos.
- Achieve comprehensive video understanding across multiple levels, including entities, actions, and events.

AI Engineering Vin Big Data Institute (Vingroup) 10/2020 - 12/2021

- Developed an AI-integrated controller module for autonomous vehicle navigation, as part of Vingroup's Autopilot project.
- Conduct research on fundamental problems in theoretical machine learning, with potential applications in various fields, including computer vision and natural language processing.

Research Assistant Signals and Systems Laboratory (UET – VNU) 06/2019 - 10/2020

- Conduct fundamental researches on matrix computation to developed efficient algorithms to segment crack-like objects from the images collected by UAV.
- Applied advanced signal processing techniques to detect abnormal EEG patterns in patients with various brain disorders.

Awards and Honors

Second Prize, Omnilab Competition, CVPR 2023 Workshop 2023

- Awarded $3300 for outstanding performance in the competition.

Merit – based Scholarship for Top 5% Excellent Academic Students 2015 - 2019

- Scholarships are provided for students each semester based on the academic performance, with 100% tuition fee and additional support for living expenses