TUAN-ANH VU

PERSONAL DATA

PLACE AND DATE OF BIRTH: Hai Hau, Nam Dinh, Viet Nam | July 10, 1993

ADDRESS: Room 609CM, Tower B, University Apartment, The Hong Kong University of Science

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EDUCATION

2019 - now Ph.D. student in Computer Science and Engineering, Hong Kong University of Science and Technology.

Supervisor: Assoc. Prof. Sai-Kit Yeung

Area of Study: Deep Learning, 3D Reconstruction, Scene Understanding

2011 - 2016 B.Sc. in Computer Science, International University - Vietnam National University HCM City

Supervisor: Synh Viet-Uyen Ha, Ph.D.

Thesis title: Extend Traffic Signs Detection and Recognition Algorithm in Nighttime in Viet Nam.

PUBLICATIONS

JOURNAL PAPERS

OCT - 2018 Synh Viet-Uyen Ha, **Tuan-Anh Vu**, and Ha Manh Tran, **"An Extended Occlusion Detection Approach for Video Processing**, REV Journal on Electronics and Communications, Vol 8, No. 3-4, pp. 55-64, 2018.

CONFERENCE/WORKSHOP PAPERS

- JUL 2017 Tuan-Anh Vu, Long Hoang Pham, Tu Kha Huynh, and Synh Viet-Uyen Ha, "Nighttime Vehicle Detection and Classification via Headlights Trajectories Matching," 2017 IEEE International Conference on System Science and Engineering (ICSSE 2017), Ho Chi Minh, Vietnam, July 21-23, 2017.
- Jan 2018 **Tuan-Anh Vu**, Long Hoang Pham, Tu Kha Huynh, and Synh Viet-Uyen Ha, "**Vehicle Classification in Nighttime using Headlights Trajectories Matching,"** in Advances in Intelligent Systems and Computing, 672, pp. 663–673, Springer, Jan 2018.
- Jan 2019 Tuan-Anh Vu, Hung Ngoc Phan, Tu Kha Huynh, and Synh Viet-Uyen Ha, "An Improved Occlusion Detection with Constraints Approach for Video Processing," in Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, 257, pp. 232-242, Springer, Jan 2019.
- JAN 2020 Long Hoang Pham, Hung Ngoc Phan, Nhat Minh Chung, Tuan-Anh Vu and Synh Viet-Uyen Ha, "A Robust Multiclass Vehicle Detection and Classification Algorithm for Traffic Surveillance System," The 2020 IEEE-RIVF International Conference on Computing and Communications Technologies, Ho Chi Minh, Vietnam, April 6-7, 2020 (accepted).

RESEARCH/WORK EXPERIENCE

PROJECT/RESEARCH EXPERIENCE

- 2015 2016 International University research project for student (Principle Investigator) Traffic Sign Detection and Recognition in Nighttime in Vietnam
- 2016 2017 International University research project for student (Principle Investigator) A Traffic Surveillance System For Detecting And Tracking Vehicles At Nighttime
- 2016 2018 Viet Nam National University research project (Key member) Advanced Occlusion Detection Algorithm in Video Processing Applications
- 2016 2018 **Ho Chi Minh City People Committee (Key member)** Piloting Project on The Intelligent Traffic System of Ho Chi Minh City
- 2017 2018 **Ho Chi Minh City Department of Science (Key member)** Develop Vehicle Detection and Classification Algorithm in Crowded Scene for Traffic Surveillance System

2017 - 2018 International University research project for student (Principle Investigator) - An Extended Vehicle Classification Algorithm in Traffic Surveillance System Using Principal Component Analysis

WORK EXPERIENCE

2017 - 2019 **Teaching Assistant and Research Assistant**, School of Computer Science and Engineering, International University - Vietnam National University Ho Chi Minh City

HONORS & AWARDS

- 2014 2015 **Scholarship for Excellent Academic Performance**, International University Vietnam National University HCM City
 - 2017 Scholarship for Master by Research program in Information Technology, International University Vietnam National University HCM City
 - 2019 **Scholarship for SENG Summer Camp for Elite Students**, The Hong Kong University of Science and Technology, Jul 7-13, 2019

LANGUAGES

VIETNAMESE: Mother-tongue

ENGLISH: IELTS 6.0 (2018)

PROGRAMMING SKILLS

Core Programming C/C++, Java, Qt, OpenCV

Basic Programming TensorFlow, Pytorch, Python, HTML, Javascript, SQL, CUDA, R

REFERENCES

Assoc. Prof. Sai-Kit Yeung

Division of Integrative Systems and Design (ISD)
Department of Computer Science and Engineering (CSE)
The Hong Kong University of Science and Technology
Email: saikit@ust.hk

Dr. Synh Viet-Uyen Ha

Head of Office of Undergraduate Academic Affairs, Head of Computer Vision and Image Processing Lab, Lecturer at School of Computer Science and Engineering, Vietnam National University - HCMC - International University. Email: hvusynh@hcmiu.edu.vn

Dr. Nguyen Thi Thanh Sang

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Assoc. Prof. Ly Le

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