

TUAN-ANH VU

PERSONAL DATA

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

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

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.

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.

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 Industrial Networks and Intelligent Systems. INISCOM 2018. LNICST, volume 257, pp. 232-242, Springer, Jan 2019.

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,” 2020 IEEE International Conference on Computing and Communication Technologies (RIVF), Ho Chi Minh, Vietnam, April 6-7, 2020.

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

2020 **Teaching Assistant**, Department of Computer Science and Engineering, Hong Kong University of Science and Technology

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

2020 **Best Poster Award**, Machine Learning Summer School Indonesia (MLSS-Indo) 2020

SKILLS

Languages Vietnamese (native), English (IELTS 6.5), Cantonese (beginner)

Programming C/C++, Java, Python, HTML/CSS, ...

Frameworks TensorFlow, Pytorch, OpenCV, Qt, OpenGL, WebGL, ...

REFERENCES

Assoc. Prof. Sai-Kit Yeung

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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,
Lecturer at School of Computer Science and Engineering,
Vietnam National University - HCMC – International University.
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Lecturer at School of Computer Science and Engineering,
Vietnam National University - HCMC – International University.
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Assoc. Prof. Ly Le

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Vietnam National University - HCMC – International University.
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