

TUAN-ANH VU

PERSONAL DATA

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

2011 - 2016 B.Sc. in COMPUTER SCIENCE, **International University - Vietnam National University Ho Chi Minh City**
Thesis title: Extend Traffic Signs Detection and Recognition Algorithm in Nighttime in Viet Nam. (Grade: 93/100)
Mentor: Synh Viet-Uyen Ha, PhD.
Area of Study: Computer Vision, Digital Image Processing
GPA: 72.5/100

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 (REV-JEC), Vol 8, No. 3-4, pp. 55-64, 2018.
- FEB - 2019 Synh Viet Uyen Ha, Long Hoang Pham, Hung Ngoc Phan, **Tuan-Anh Vu**, Son Dao, "**A Robust Multiclass Vehicle Detection and Classification Algorithm for Traffic Surveillance System**", IET Computer Vision (SCI-Q2). [Under revision]

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 City, 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 Information Systems Design and Intelligent Applications, 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 Industrial Networks and Intelligent Systems, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, 257, pp. 232-242, Springer, Jan 2019.

RESEARCH/WORK EXPERIENCE

PROJECT/RESEARCH EXPERIENCE

2015 - 2016 *Traffic Sign Detection and Recognition in Nighttime in Vietnam*

- **Level:** Research project for student.
- **Role:** Principle Investigator.
- **Field:** Computer vision, machine learning, driver assistance system.

2016 - 2017 *A Traffic Surveillance System For Detecting And Tracking Vehicles At Nighttime*

- **Level:** Research project for student.
- **Role:** Principle Investigator.
- **Field:** Computer vision, machine learning, traffic surveillance system.

2016 - 2018 *Piloting Project on The Intelligent Traffic System of Ho Chi Minh City*

- **Level:** Ho Chi Minh City People Committee.
- **Role:** Participant.
- **Field:** Computer vision, machine learning, traffic surveillance system.

2016 - 2018 *Advanced Occlusion Detection Algorithm in Video Processing Applications*

- **Level:** Viet Nam National University – Ho Chi Minh city.
- **Role:** Participant.
- **Field:** Computer vision, video processing, optical flow, occlusion detection.

2017 - 2018 *Develop Vehicle Detection and Classification Algorithm in Crowded Scene for Traffic Surveillance System using Camera*

- **Level:** Ho Chi Minh City Department of Science
- **Role:** Participant.
- **Field:** Computer vision, machine learning, traffic surveillance system.

2017 - 2018 *An Extended Vehicle Classification Algorithm in Traffic Surveillance System Using Principal Component Analysis*

- **Level:** Research project for student.
- **Role:** Principle Investigator.
- **Field:** Computer vision, machine learning, feature selection, traffic surveillance system.

WORK EXPERIENCE

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

- **Advisor:** Dr. Synh Viet-Uyen Ha.
- **Research interests:** Computer vision, image processing, traffic surveillance system, vehicle classification.

HONORS & AWARDS

2014 - 2015 Scholarship for Excellent Academic Performance, International University

LANGUAGES

VIETNAMESE: Mother-tongue

ENGLISH: IELTS 6.0

PROGRAMMING SKILLS

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

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

COMPUTER SKILLS

Basic Knowledge Latex, Word, Excel, PowerPoint, Prezi

REFERENCES

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.
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