VAN-TU VO

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EDUCATION

Pukyong National Univeristy *September 2016 - February 2019*
Master Overall GPA: 4.37/4.5
Department of Computer Engineering
Thesis: High Dynamic Range Video Synthesis using Superpixel Based - Illumination Invariant Motion Estimation
Adviser: Professor Chul Lee

Hanoi University of Science and Technology *September 2011 - July 2016*
Bachelor Overall GPA: 3.27/4
Department of Electrical Engineering
Thesis: Simulating and Designing the Smart Solar System
Adviser: Professor Hoai Linh Tran

TECHNICAL STRENGTHS

Computer Languages	C/C++, MATLAB, Python, HTML, CSS
Software & Tools	Visual Studio Code, LaTeX, Conda, Docker, Jupyter Notebook
Library	OpenCV, Tensorflow, Keras, Pytorch, Numpy, Matplotlib

RESEARCH PREFERENCES

· Low-light Image Enhancement and High dynamic range Imaging.
· Object Detection and Recognition.

EXPERIENCE

Inhandplus Inc. March 2020 - present
AI Developer

· Using Tensorflow Object Detection API for detecting the medication behavior of the patients.
· Design LSTM network to serialize the data and analyze the medication behavior.
· Deploy the trained model to server using Django.

Tricubics Inc. February 2019 - March 2020
Research Engineer

· Develop segmentation algorithm using deep learning to generate data.
· Design and optimize deep learning network for classification tasks.
· Analyze and clean data for training deep learning models

Computational Imaging Laboratory September 2016 - February 2019
Research Assistant

· Research and develop algorithm for synthesizing high dynamic range videos
· Research and develop algorithm for HDR10 contents
· Develop algorithm to detect pedestrian in tunnel

Pix Moving April 2018 - May 2018
Computer Vision Internship

· Develop pedestrian detection system for self-driving car

PUBLICATIONS

- **Tu Van Vo** and Chul Lee, "Robust HDR video synthesis using superpixel-based illumina- tion invariant motion estimation," in Proc. IEEE International Conference on Consumer Electronics-Asia (ICCE-Asia), Jeju, Korea, Jun. 2018, pp. 245–246.
- **Tu Van Vo** and Chul Lee, "High Dynamic Range Video Synthesis Using Superpixel-Based Illuminance-Invariant Motion Estimation," in IEEE Access, vol. 8, pp. 24576-24587, 2020.

RELEVANT COURSES

Core Courses
Image Processing
Artificial Intelligence
Neural Network and Deep learning
Computer Vision
Advanced Image Processing

Online Courses
Computer Vision Nanodegree
DeepLearning.AI TensorFlow Developer
AI and Edge Computing
Deep learning Specialization
Self Driving Car Nanodegree

PROJECTS

Core Projects
High Dynamic Range Video Synthesis (at CILab)
High Dynamic Range Video Tonemapping (at CILab)
Pedestrian Detection for Self Driving Car (at PIXMoving)
Object (bottles, cans) Classification (at Tricubics)
Tensorflow Object Detection and Action Recognition

Self-Done Projects
Deep HDR Imaging via A Non-Local Network
Vision Transformer
Face Detection and Recognition
Donkey Car
Zero-DCE TF
Recovering High Dynamic Range Radiance Maps from

OTHERS

Languages

- English (IELTS 7.5)
- Vietnamese
- Korean

Obtained Scholarships

- Hanoi Univeristy of Science and Technology scholarship for excellent students
- Coteccons scholarships for out-performed students
- Computer Vision Nanodegree - Udacity
- AI and Edge Computing - Udacity
- Research Assistant Scholarship - Pukyong National University
- Top 5 in MOAI 2020 Body Morphometry AI Segmentation Online Challenge