Le-Anh Tran (1996)

PhD in Computer Vision

"Once the WHY is clear, the HOW goes easy"

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ABOUT ME

I began my academic journey in 2014 by pursuing a degree in Automation and Control Engineering, but the appeal of AI captivated me in late 2017. Since then, I have been actively involved in various AI projects. My primary research interests that are reflected by my publications so far include **image enhancement**, **cluster analysis**, and **object detection**. I completed my PhD in early 2024 under the guidance of Prof. Dong-Chul Park, an expert in Artificial Neural Networks. I primarily specialize in **Python** programming and have experience with various frameworks such as **tensorflow**, **pytorch**, **conda**, etc. I also contribute as a writer to various popular online blog platforms such as Towards Data Science, Towards AI, etc.

EDUCATION

3/2021 – 2/2024 **PhD in Computer Vision**
Myongji University (Natural Science Campus), South Korea

3/2019 – 2/2021 **MSc in Computer Vision**
Myongji University (Natural Science Campus), South Korea

9/2014 – 8/2018 **BEng in Automation and Control Engineering (graduated with honors)**
HCMC University of Technology and Education (HCMUTE), Vietnam

EXPERIENCE

4/2020 – 2/2024 **Research Intern**
MindinTech, Inc., Seoul, South Korea
Area: Computer Vision for Intelligent Driving

3/2021 – 2/2024 **Research Assistant**
Intelligent Computing Research Lab (ICRL), Myongji University, South Korea
Area: Image Enhancement, Cluster Analysis

7/2019 – 9/2019 **Summer Internship**
OCST Co., Ltd., Seoul, South Korea
Project: Object Detection Streaming and Data Management on Web Browser

3/2018 – 2/2019 **AI Engineer**
FPT Software, Ho Chi Minh City, Vietnam
Area: Computer Vision for Autonomous Driving

2/2017 – 1/2018 **Teaching Assistant**
Faculty of Electrical and Electronics Engineering, HCMUTE, Vietnam
Subject: Electric Drivers

OTHERS

Languages
- Vietnamese (native)
- English (proficient)

Memberships
- IEEE Member (since 2022)
- IEEE Young Professionals (since 2022)

Work Style
- Being self-motivated and independent
- Moving from basic to complex
- Being able to learn new knowledge quickly
- Being a problem solver

PUBLICATIONS

2024 **Cluster Analysis via Projection onto Convex Sets**
LA Tran, D Kwon, HM Deberneh, DC Park
Intelligent Data Analysis, IOS Press (SCIE)

2024 **Toward Improving Robustness of Object Detectors Against Domain Shift**
LA Tran, NC Tran, DC Park, J Carrabina, D Castells-Rufas
IEEE International Conference on Green Energy, Computing and Sustainable Technology (GECOST)

2023 **Single Image Dehazing via Regional Saturation-Value Translation**
LA Tran, D Kwon, DC Park
Procedia Computer Science

2023 **Image Compression using POCS-based Clustering Algorithm**
LA Tran, DC Park
International Exchange and Innovation Conference on Engineering & Sciences (IEICES)

2023 **Embedding Clustering via Autoencoder and Projection onto Convex Set**
LA Tran, TD Nguyen, TD Do, NC Tran, D Kwon, DC Park
IEEE International Conference on System Science and Engineering (ICSSE)

2023 **Efficient Infrared-Thermal Imaging Fusion for Human Detection in Heavy Smoke Scenarios**
NN Truong, MH Le, TD Do, LA Tran, TD Nguyen, HH Trinh
IEEE International Conference on System Science and Engineering (ICSSE)

2023 **Encoder-Decoder Network with Guided Transmission Map: Robustness and Applicability**
LA Tran, DC Park
Smart Innovation, Systems and Technologies, Vol. 333

2022 **Encoder-Decoder Network with Guided Transmission Map: Architecture**
LA Tran, DC Park
International Conference on Advances in Signal Processing and Artificial Intelligence (ASPAI)

2022 **POCS-based Clustering Algorithm**
LA Tran, HM Deberneh, TD Do, TD Nguyen, MH Le, DC Park
IEEE International Workshop on Intelligent Systems (IWIS)

2022 **Encoder-Decoder Network with Guided Transmission Map for Image Dehazing**
LA Tran, S Moon, DC Park
Procedia Computer Science, Vol. 204

2021 **Enhancement of Robustness in Object Detection Module for ADAS**
LA Tran, TD Do, DC Park, MH Le
IEEE International Conference on System Science and Engineering (ICSSE)

2020 **Object Detection Streaming and Data Management on Web Browser**
LA Tran
Technical Report, OCST Co., Ltd.

2019 **Robust U-Net-based Road Lane Markings Detection for Autonomous Driving**
LA Tran, MH Le
IEEE International Conference on System Science and Engineering (ICSSE)

2018 **A Vision-based Method for Autonomous Landing on a Target with a Quadcopter**
LA Tran, NP Le, TD Do, MH Le
IEEE International Conference on Green Technology and Sustainable Development (GTSD)

Under Review **Distilled Pooling Transformer Encoder for Efficient Image Dehazing**
LA Tran, DC Park

Under Review **Encoder-Decoder Networks with Guided Transmission Map for Effective Image Dehazing**
LA Tran, DC Park

Under Review **Haze Removal via Regional Saturation-Value Translation and Soft Segmentation**
LA Tran, DC Park

Under Review **Soft Knowledge-based Distilled Dehazing Networks**
LA Tran, DC Park