

Tran, Le Anh (1996)

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

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ABOUT ME

I completed my PhD under the guidance of [Prof. Dong-Chul Park](#) in early 2024, marking an important milestone in my research journey. I specialize in **Python** programming and have experience with various frameworks such as **tensorflow**, **pytorch**, **conda**, etc. My [publications](#) have mainly revolved around **image enhancement**, **cluster analysis**, and **object detection**. I am also a writer for popular Medium publications such as **Towards Data Science**, **Level Up Coding**, 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 Staff Member (Part-time)**
MindinTech, Inc., Seoul, South Korea
Researched and developed vision-based techniques for advanced driver-assistance systems
- 3/2021 – 2/2024 **Research Assistant**
Intelligent Computing Research Lab (ICRL), Myongji University, South Korea
Researched and developed cutting-edge algorithms for image enhancement and cluster analysis, resulting in around 20 research publications
- 7/2019 – 9/2019 **Software Development Intern**
OCST Co., Ltd., Seoul, South Korea
Developed a software system for object detection streaming and data management
- 3/2018 – 2/2019 **AI Engineer**
FPT Software, Ho Chi Minh City, Vietnam
Developed and implemented vision-based algorithms for the first piloted driver-less car in Vietnam
- 2/2017 – 1/2018 **Teaching Assistant**
Faculty of Electrical and Electronics Engineering, HCMUTE, Vietnam
Assisted the lecturer during classes, prepared lesson plans, and evaluated assignments

EXPERTISE

Skills

- Programming: Python, Conda, Darknet, Tensorflow, Keras, Pytorch
- Document Presentation: MS Word, MS PowerPoint, LaTeX
- Technical: Statistical Analysis, Visualization, Technical Reporting, Problem Solving, etc.
- Concept: Knowledge Distillation, Knowledge Transfer, Learning without Forgetting, Dark Channel Prior, Non-Maximum Suppression, Vision Transformer, Generative Adversarial Networks, etc.

Languages

- Vietnamese (native)
- English (proficient)

Activities

- IEEE Member
- IEEE Young Professional
- Reviewer for Intelligent Data Analysis (IOS Press)

PUBLICATIONS

- 2024 **Encoder-Decoder Networks with Guided Transmission Map for Effective Image Dehazing**
[LA Tran](#), DC Park
The Visual Computer, Springer (SCIE)
- 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 **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 **Efficient Big Data Analysis via POCS and Centroid Neural Network**
[LA Tran](#), DC Park
- Under Review **Distilled Pooling Transformer Encoder for Efficient Realistic 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

Under Review

POCS-based Image Compression: An Empirical Examination

TD Nguyen[∇], [LA Tran](#)[∇], TD Do, DC Park

Under Review

Clustering Optimization via Centroid Neural Network Ensemble

NC Tran[∇], [LA Tran](#)[∇], DC Park, J Carrabina, D Castells-Rufas

Under Review

A Thermal Imaging-based Search and Rescue System for Flying Robots in Firefighting

TD Do, TD Nguyen, [LA Tran](#), NN Truong

[∇]: equal contribution