

Le-Anh Tran, PhD

Research Scientist

Computer Vision & Deep Learning

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ABOUT ME

AI Research Scientist with **7+ years** of experience in academia and industry, specializing in developing advanced algorithms and solutions for **image enhancement**, **cluster analysis**, and **object detection**. Proficient in Python and frameworks such as **Tensorflow**, **Pytorch**, and **Conda**. Published multiple **research papers** in **peer-reviewed AI/ML-related journals and conferences**. A collaborative team player with a strong passion for advancing AI-driven technologies, including **computer vision**, **language models**, and other cutting-edge innovations.

EDUCATION

- 3/2021 – 2/2024 **PhD in Electronics Engineering (Computer Vision)**
Myongji University (Natural Science Campus), South Korea
- 3/2019 – 2/2021 **MSc in in Electronics Engineering (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 – 5/2025 **AI Research Scientist**
MindinTech, Inc., Seoul, South Korea
Researched and developed vision-based techniques for advanced driver-assistance systems
- 3/2019 – 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
- 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)

Services

- Blog Writing: Towards Data Science · Level Up Coding
- Peer Reviewing: IEEE Transactions on Image Processing · IEEE Transactions on Intelligent Transportation Systems · Biomedical Signal Processing and Control · Sensors · Electronics · Supercomputing · Scientific Reports · The Visual Computer · International Journal of Machine Learning and Cybernetics

PUBLICATIONS

Journal Articles (†: equal contribution)

- 2025 **Distilled Pooling Transformer Encoder for Efficient Realistic Image Dehazing**
[LA Tran](#), DC Park
Neural Computing and Applications (SCIE)
- 2025 **Global Saturation-Value Translation Approach for Haze Removal in Urban Aerial Imagery**
TD Do†, [LA Tran](#)†, J Lee, SK Hong
IEEE Access (SCIE)
- 2024 **Drone-view Haze Removal via Regional Saturation-Value Translation and Soft Segmentation**
TD Do†, [LA Tran](#)†, S Moon, J Chung, NP Nguyen, SK Hong
IEEE Access (SCIE)
- 2024 **Lightweight Image Dehazing Networks based on Soft Knowledge Distillation**
[LA Tran](#), DC Park
The Visual Computer (SCIE)
- 2024 **Encoder-Decoder Networks with Guided Transmission Map for Effective Image Dehazing**
[LA Tran](#), DC Park
The Visual Computer (SCIE)
- 2024 **Cluster Analysis via Projection onto Convex Sets**
[LA Tran](#), D Kwon, HM Deberneh, DC Park
Intelligent Data Analysis (SCIE)
- 2025 **Unpaired Image Dehazing via Kolmogorov-Arnold Transformation of Latent Features**
[LA Tran](#)
Under Review
- 2025 **Improved U-Net with Identity Transformer Encoder for Efficient UAV Semantic Segmentation**
TD Do†, [LA Tran](#)†, J Lee, SK Hong
Under Review

Conference Proceedings (†: equal contribution, §: corresponding author)

- 2025 **Low-Light Enhancement via Encoder-Decoder Network with Illumination Guidance**
[LA Tran](#), CN Tran, NL Nguyen, NC Dang, J Carrabina, D Castells-Rufas, MS Nguyen
IEEE International Conference on Computer and Communication Engineering (ICCE)
- 2025 **Spatial-Aware Image Denoising through an Encoder-Decoder Framework**
TD Nguyen†, [LA Tran](#)†, G Cheol, ES Kim, KC Lee
Electronics, Semiconductor, and Artificial Intelligence Conference (IEIE, South Korea)
- 2025 **Eye Side and Orientation Detection of Iris Images using Lightweight Textural Descriptors**
NC Tran, J Carrabina, D Castells-Rufas, MS Nguyen, [LA Tran](#), NC Dang
IEEE International Conference on Image Processing, Applications and Systems (IPAS)
- 2024 **Clustering Optimization via Centroid Neural Network Ensemble**
NC Tran, [LA Tran](#)§, NP Le, J Carrabina, D Castells-Rufas, MS Nguyen, NC Dang
IEEE International Conference on Future Machine Learning and Data Science (FMLDS)
- 2024 **POCS-based Image Compression: An Empirical Examination**
TD Do†, [LA Tran](#)†, TD Nguyen, NN Truong, DC Park, MH Le
IEEE International Conference on Green Technology and Sustainable Development (GTSD)
- 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)
- 2024 **Single Image Dehazing via Regional Saturation-Value Translation**
[LA Tran](#), D Kwon, DC Park
Procedia Computer Science, Vol. 237
- 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)
- 2025 **MetaFormer-driven Encoding Network for Robust Medical Semantic Segmentation**
[LA Tran](#)
Under Review