

# Le-Anh Tran, PhD

AI Research Scientist  
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## ABOUT ME

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**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, chatbots, large language models (LLMs)**, and other cutting-edge innovations.

## EDUCATION

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- 3/2019 – 2/2024 **PhD 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

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- 4/2020 – Present **Research Staff Member**  
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

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### 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)

### Academic Services

- Technical Blog Writing: Towards Data Science, Level Up Coding
- Peer Reviewing: IEEE Transactions on Image Processing, IEEE Transactions on Intelligent Transportation Systems, Intelligent Data Analysis

## PUBLICATIONS

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### Journal Articles (‡: co-first author)

- 2024 **Distilled Pooling Transformer Encoder for Efficient Realistic Image Dehazing**  
[LA Tran](#), DC Park  
Neural Computing and Applications (SCIE)
- 2024 **Drone-view Haze Removal via Regional Saturation-Value Translation and Soft Segmentation**  
TD Do<sup>‡</sup>, [LA Tran](#)<sup>‡</sup>, 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)

### Conference Proceedings (‡: co-first author, §: corresponding author)

- 2024 **Clustering Optimization via Centroid Neural Network Ensemble**  
NC Tran, [LA Tran](#)<sup>§</sup>, 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<sup>‡</sup>, [LA Tran](#)<sup>‡</sup>, 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)