

# Le-Anh Tran, PhD

Computer Vision Scientist

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🌐 [Google Scholar](#) [in](#) [/in/tranleanh](#)

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## PROFILE

**Computer Vision Scientist** with **6+ years** of experience in developing cutting-edge algorithms and publishing research papers in **image enhancement**, **cluster analysis**, and **object detection**. Skilled in **Python** programming and frameworks such as **Tensorflow**, **Pytorch**, and **Conda**. Contributed articles to leading Medium publications including **Towards Data Science** and **Level Up Coding**. Strong collaborator with a passion for innovation in **AI-driven technologies**.

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## 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

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## EXPERIENCE

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

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## 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)

### Academic Services

- IEEE Member
- IEEE Young Professional
- Peer Reviewing: Transactions on Image Processing (IEEE), Transactions on Intelligent Transportation Systems (IEEE), Intelligent Data Analysis (IOS Press)

## PUBLICATIONS

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### Journal Articles

- 2024 **Lightweight Image Dehazing Networks based on Soft Knowledge Distillation**  
[LA Tran](#), DC Park  
The Visual Computer, Springer (SCIE)
- 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)
- Under Review **Distilled Pooling Transformer Encoder for Efficient Realistic Image Dehazing**  
[LA Tran](#), DC Park  
Neural Computing and Applications, Springer (SCIE)
- Preprint **Haze Removal via Regional Saturation-Value Translation and Soft Segmentation**  
[LA Tran](#), DC Park  
arXiv preprint arXiv:2403.12054

### Conference Proceedings

- 2024 **Clustering Optimization via Centroid Neural Network Ensemble**  
NC Tran, [LA Tran](#), NP Le, J Carrabina, D Castells-Rufas, MS Nguyen  
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)