

SKILLS

Languages	Vietnamese (Native), English (Fluent), French (Fluent)
Knowledge	Data Structures, Algorithms, OOP, Machine Learning, Computer Vision (camera, LiDAR), SLAM, ADAS, Agile
Prog. Languages	Python, C/C++, CUDA, SQL, Bash, HTML, CSS, JS
Frameworks	Pytorch, Keras/ TensorFlow, OpenCV, OpenCL, OpenGL, NumPy, SciPy, Pandas, Scikit-learn, Matplotlib, Flask, Qt
Embedding	ROS, PCL, TensorRT, Raspberry Pi 3, Nvidia Jetson tx2, AGX Xavier
Other	Git, Docker, bash, Linux, VS Code, Doxygen, \LaTeX

WORK EXPERIENCE

PhD Student	IRIT, CNRS & Cerema	Nov 2019 - Jan 2023
Achievements/ Tasks		
Toulouse, France		
<ul style="list-style-type: none">• Focusing on LiDAR-based/ monocular-based 3DOD methods• Keywords: 3D object detection, Tracking, Segmentation, LiDAR, Linux, pytorch		
Applied Scientist	VinAI Research	May - Dec 2021
Achievements/ Tasks		
Vietnam		
<ul style="list-style-type: none">• Implementing & reproducing the SOTA LiDAR-based/ monocular-based 3DOD on waymo, nuscenes datasets• Training & evaluating on our own large-scale datasets• Exporting & deploying the model on car products• Keywords: 3D Object Detection, LiDAR, Linux, CUDA, pytorch, tensorRT, Embedded Systems		
Research Scientist Intern	CEA	Feb - Aug 2019
Achievements/ Tasks		
Paris, France		
<ul style="list-style-type: none">• Fine detection and recognition of large-scale products using the 3D sensor Realsense d435• Targeted TensorRT optimization for embedded platforms Nvidia Jetson tx2, AGX Xavier private report• Keywords: 2D Object Detection, Linux, pytorch, tensorRT, Embedded Systems		
Research Scientist Intern	MIA	Apr - Jul 2018
Achievements/ Tasks		
La Rochelle, France		
<ul style="list-style-type: none">• Reimplementing the SOTA 2DOD (YOLO v3) in tensorflow• Training & evaluating on our own datasets• Exporting and deploying the model on Raspberry PI 3/ TurtleBot 3• Keywords: 2D Object Detection, Linux, tensorflow, Embedded Systems		

EDUCATION

Toulouse, France	Paul Sabatier University	2019 - Now
<ul style="list-style-type: none">• PhD Student in Computer Science		
Bourges, France	INSA CVL	2014 - 2019
<ul style="list-style-type: none">• Diplôme d'Ingénieur (\equiv Master's Degree)		

PUBLICATIONS

Journals

- [J-1] **Nguyen Anh Minh MAI**, Pierre Duthon, Louahdi Khoudour, Alain Crouzil, Sergio A. Velastin. “3D Object Detection with SLS-Fusion Network in Foggy Weather Conditions” - SENSORS, Special Issue “Advanced Computer Vision Techniques for Autonomous Driving” | [.pdf]

Conferences

- [C-3] **Nguyen Anh Minh MAI**, Pierre Duthon, Pascal Housam SALMANE, Louahdi Khoudour, Alain Crouzil, Sergio A. Velastin. “Camera and LiDAR analysis for 3D object detection in foggy weather conditions” - 12th International Conference on Pattern Recognition Systems (ICPRS 2022)
- [C-2] **Nguyen Anh Minh MAI**, Pierre Duthon, Louahdi Khoudour, Alain Crouzil, Sergio A. Velastin. “Détection d’obstacles par vision et LiDAR par temps de brouillard pour les véhicules autonomes” - La 18ème édition d’ORASIS, journées francophones des jeunes chercheurs en vision par ordinateur (ORASIS 2021) | [.pdf]
- [C-1] **Nguyen Anh Minh MAI**, Pierre Duthon, Louahdi Khoudour, Alain Crouzil, Sergio A. Velastin. “Sparse LiDAR and Stereo Fusion (SLS-Fusion) for Depth Estimation and 3D Object Detection” - 11th International Conference on Pattern Recognition Systems (ICPRS 2021) | [.pdf]

ADDITIONAL EXPERIENCE & AWARDS

Certificates & Awards

- 2021 Best Paper Award at the ICPRS 2021
- 2019 Ph.D. Scholarship for an outstanding candidate from the Cerema Research Center, France
- 2017 Deep learning specifications Certificates, Andrew Ng, Coursera
- 2016 Machine learning Certificates, Andrew Ng, Coursera
- 2014 2nd prize in mathematics at the provincial competition of the best high school students, Hue, Vietnam
- 2011 2nd prize in mathematics at the provincial competition of the best college students, Hue, Vietnam
- 2010 3rd prize in mathematics on pocket computer at the provincial competition of the best college students, Hue, Vietnam

Summer School

- 2021 Reinforcement Learning Virtual School (RLVS 2021) hosted by the Artificial and Natural Intelligence Toulouse Institute (ANITI), Toulouse, France
- 2018 Document Analysis and Recognition at La Rochelle University, La Rochelle, France

Teaching

- 2021 Teaching assistant at Reinforcement Learning Virtual School (RLVS) hosted by the Artificial and Natural Intelligence Toulouse Institute (ANITI), Toulouse, France
- 2021 “Introduction to Programming and Algorithms in Python” at the Paul Sabatier University (UPS), Toulouse, France

REFERENCES

Available upon request