






LANGUAGES & SKILLS

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|------------------------|---|
| Languages | Vietnamese (Native), English (Fluent), French (Fluent) |
| Knowledge | Data Structures, Algorithms, OOP, Machine Learning (Deep Learning, Reinforcement Learning), Computer Vision (2D/ 3D detection, Tracking, Classification, Segmentation, Depth Estimation, 3D Reconstruction & Point Cloud (LiDAR)) |
| 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 Tools | ROS, PCL, TensorRT, Raspberry pi 3, Nvidia Jetson tx2, AGX Xavier vim, VS Code, git, Doxygen, L ^A T _E X |

WORK EXPERIENCE

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| Ph.D. Fellow Achievements/ Tasks <ul style="list-style-type: none">Focusing on LiDAR-based/ monocular-based 3DOD methodsKeywords: 3D object detection, Tracking, Segmentation, LiDAR, Linux, pytorch | IRIT  & Cerema  | Nov 2019 - Now Toulouse, France |
| Applied Scientist part-time Achievements/ Tasks <ul style="list-style-type: none">Implementing & reproducing the SOTA LiDAR-based/ monocular-based 3DOD on waymo, nuscenes datasetsTraining & evaluating on our own large-scale datasetsExporting & deploying the model on car productsKeywords: 3D Object Detection, LiDAR, Linux, CUDA, pytorch, tensorRT, Embedded Systems | VinAI Research  | may 2021 - Now Hanoi, Vietnam |
| Research Scientist Intern Achievements/ Tasks <ul style="list-style-type: none">Fine detection and recognition of large-scale products using the 3D sensor Realsense d435Targeted TensorRT optimization for embedded platforms Nvidia Jetson tx2, AGX Xavier private reportKeywords: 2D Object Detection, Linux, pytorch, tensorRT, Embedded Systems | CEA  | Feb - Aug 2019 Paris, France |
| Research Scientist Intern Achievements/ Tasks <ul style="list-style-type: none">Reimplementing the SOTA 2DOD (YOLO v3) in tensorflow.Training & evaluating on our own datasetsExporting and deploying the model on Raspberry PI 3/ TurtleBot 3Keywords: 2D Object Detection, Linux, tensorflow, Embedded Systems | MIA  | Apr - Jul 2018 La Rochelle, France |

EDUCATION

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| Toulouse, France <ul style="list-style-type: none">Ph.D. student in Computer Science | Paul Sabatier University  | 2019 - Now |
| Bourges, France <ul style="list-style-type: none">Diplôme d'Ingénieur (Master's Degree) | INSA CVL INSA | 2014 - 2019 |

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” | [Pending minor revisions]

Conferences

- [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