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Minh MAI

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LANGUAGES & SKILLS

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	ROS, PCL, TensorRT, Raspberry pi 3, Nvidia Jetson tx2, AGX Xavier
Tools	vim, VS Code, git, Doxygen, LaTeX

WORK EXPERIENCE

Ph.D. Fellow — **IRIT & Cerema** — **Nov 2019 - Now**
Achievements/ Tasks — Toulouse, France

- Focusing on LiDAR-based/ monocular-based 3DOD methods
- Keywords: 3D object detection, Tracking, Segmentation, LiDAR, Linux, pytorch

Applied Scientist — **VinAI Research**
Achievements/ Tasks — Hanoi, Vietnam

- 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

- 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

- 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**

- Ph.D. student in Computer Science

Bourges, France — **INSA CVL** — **2014 - 2019**

- Diplôme d'Ingénieur (Master's Degree)

PUBLICATIONS

[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 lesvéhicules 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