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Minh MAI

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SKILLS

Languages	Vietnamese (Native), English (Fluent), French (Fluent)
Knowledge	Data Structures, Algorithms, OOP, Machine Learning, Computer Vision (camera, LiDAR), SLAM, ADAS, Agile, CI/ CD
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 - 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**	**May - Dec 2021**
Achievements/ Tasks		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**

- PhD Student in Computer Science

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

- Diplôme d'Ingénieur (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 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

REFERENCES

Available upon request