Nguyen Anh Minh MAI | Curriculum Vitae

Ph.D student in Computer Vision, Machine Learning

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Work Experience

Nov 2019 - Now

Ph.D Student in Computer Vision & Deep Learning
Toulouse Computer Science Research Institute (IRIT) & Toulouse Cerema Research Center in collaboration with Easymile (autonomous vehicle company), Toulouse, France

Now, i'am currently working on a project about environment perception (3D object detection and semantic segmentation on point cloud from lidar sensor) for self-driving cars

Feb-Aug 2019

Research Intern in Computer Vision, Deep Learning
Laboratory the Vision and Content Engineering LVIC Lab/ CEA List, Paris Saclay, France

- Targeted TensorRT optimization for embedded platforms Nvidia Jetson tx2, AGX Xavier

- Fine detection and recognition of large-scale products using the 3D sensor Realsense d435

[YOLOv3_tensorRT (private code)] [reconnaissance_grocery_product (private code)]
[private rapport]

Apr-Sep 2018

Research Intern in Computer Vision, Deep Learning
Laboratory Mathematics, Image and Applications MIA Lab/ University of La Rochelle, La Rochelle, France

- Object Detection, Object Recognition, Transfert learning

- Reimplementing yolov3 in tensorflow

- Raspberry PI 3/ TurtleBot 3

[messy code] [rapport available upon request]

Education

2019 - Now **Ph.D. student in Computer Science & Telecommunications**
Paul Sabatier University (Toulouse III), Toulouse, France

2014 - 2019 **Engineer's Degree in Industrial Informatics**
INSA CVL, Bourges, France

Scientific Publications

Peer-reviewed conference publications

[C-1] "Sparse LiDAR and Stereo Fusion (SLS-Fusion) for Depth Estimation and 3D Object Detection" - 11th International Conference on Pattern Recognition Systems (ICPRS 2021)
Nguyen Anh Minh MAI, Pierre Duthon, Louahdi Khoudour, Alain Crouzil, Sergio A. Velastin
[Accepted for publication and oral presentation]

Certificates and Awards

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	2^{nd} in math at the provincial competition of the best high school students
2011	2^{nd} in math at the provincial competition of the best college students

Workshops Summer School

Jul 2018	Summer School on Document Analysis and Recognition at La Rochelle University, La Rochelle, France

Languages

English:	Professional working proficiency (toeic: 805 - 2019)
French:	Full professional proficiency (DELF B2 - 2019)
Vietnamese:	Mothertongue

Technical Skills

Computer Vision:	Experience with detection, tracking, classification and segmentation, depth estimation and 3D reconstruction
Robotic:	ROS (Robot Operating System), Point Cloud Library (PCL)
Programming Languages:	Python, R, CUDA, C/C++, MATLAB, SQL, Bash, LaTeX
Frameworks:	Keras/TensorFlow, Pytorch, tensorRT, OpenCV, NumPy, SciPy, Pandas, Scikit-learn, Matplotlib
Tools:	IDE (VS Code, Pycharm), Git, Doxygen, StarUML, Unit Testing
OS:	Linux, Windown

References

References available upon request.