

Nguyen Anh Minh MAI | CURRICULUM VITAE

Ph.D student in Computer Vision, Machine Learning

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📅 10 mars 1996

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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 2nd in math at the provincial competition of the best high school students
- 2011 2nd 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: 2D/ 3D detection, tracking, classification and segmentation, depth estimation and 3D reconstruction
- Robotic: ROS (Robot Operating System), Point Cloud Library (PCL)
- Embedding: ONNX, TensorRT, Raspberry pi 3, Nvidia Jetson tx2, AGX Xavier
- Web Application: Flask, HTML, CSS, Javascript, Bootstrap, Heroku, AWS, SQLite
- Languages: Python, R, CUDA, C/C++, MATLAB, SQL, Bash
- Frameworks: Keras/TensorFlow, Pytorch, OpenCV, NumPy, SciPy, Pandas, Scikit-learn, Matplotlib, Qt
- Tools: \LaTeX , Vim, IDE (VS Code, Pycharm), Git, Doxygen, StarUML, Unit Testing
- OS: Linux, Windown

REFERENCES

References available upon request.