Nguyen Anh 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
Prog. Languages: Python, C/C++, CUDA, bash, HTML/CSS, JavaScript, SQL
Frameworks: Pytorch, Keras/ TensorFlow, OpenCV, Scikit-learn, NumPy, SciPy, Pandas, ROS, PCL, TensorRT
Developer Tools: Git, Docker, Linux, VS Code, Doxygen, LaTeX

Education

Paul Sabatier Toulouse III University   **Nov. 2019 – Jan. 2023**
PhD in Computer Science   *Toulouse, France*
INSA Centre Val de Loire   **Sep. 2014 – Sept. 2019**
MEng in Computer Engineering   *Bourges, France*

Experience

IRIT, CNRS & Cerema   **Nov. 2019 – Jan. 2023**
PhD Student   *Toulouse, France*
- Focusing on LiDAR-based/ camera-based 3DOD methods.
- Keywords: 3D object detection, Tracking, Segmentation, LiDAR, Linux, pytorch.

VinAI Research   **May 2021 – Dec. 2021**
Research Scientist   *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.

CEA   **Feb. 2019 – Aug. 2019**
Research Engineer Intern   *Paris-Saclay, 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.
- Keywords: 2D Object Detection, Linux, pytorch, tensorRT, Embedded Systems.

MIA   **Apr. 2018 – Jul. 2018**
Research Engineer Intern   *La Rochelle, France*
- Reimplementing the SOTA 2DOD (YOLO v3) in tensorflow.
- Training & evaluating on our own datasets. Exporting & deploying the model on Raspberry PI 3/ TurtleBot 3
- Keywords: 2D Object Detection, Linux, tensorflow, Embedded Systems.

Publications

Journals
- Nguyen Anh Minh Mai, Pierre Duthon, Louahdi Khoudour, Alain Crouzil, and Sergio A. Velastin, "3D Object Detection with SLS-Fusion Network in Foggy Weather Conditions," SENSORS

Conferences
- 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," ICPRS 2022
- 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," ORASIS 2021
- 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," ICPRS 2021, (received "Best Paper Award")

Additional Experience & Awards

Certificates & Awards
- Best paper honorable mention, ICPRS 2021 (2021)
- PhD research scholarship, Cerema Research Center, France (2019)
- Deep learning specifications Certificates (2017), Machine learning Certificates, Andrew Ng, Coursera (2016)
- 2nd prize in mathematics (provincial competition of the best high school students), Hue, Vietnam (2014)
- 2nd prize in mathematics (provincial competition of the best college students), Hue, Vietnam (2011)
- 3rd prize in mathematics on pocket computer (provincial competition of the best college students), Hue, Vietnam (2010)

Teaching
- Teaching assistant at Reinforcement Learning Virtual School (RLVS) hosted by ANITI, Toulouse, France 🔗
- "Introduction to Programming and Algorithms in Python" at the Paul Sabatier University (UPS), Toulouse, France