Abdoul Djalil Ousseini Hamza

Computer Vision Engineer

Personal info

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06600, Antibes, France

Links

Portfolio

Github

Education

Msc || DATA SCIENCE

La Rochelle University || 2017-2019 - La Rochelle, France

Msc || INFORMATION TECHNOLOGY

Vietnam National University || 2017-2019 - Hanoi, Vietanam

Bsc || TELECOMMUNICATION

IAT - Niger || 2012 -2015 - Niamey, Niger

Programming

- Python
- C/C++
- Java
- SQL, NoSQL

Languages

- French
- English
- Haussa, Zarma

Experiences

Computer Vision Engineer || Full-time

INRIA Sophia || Sophia Antipolis, France || June 2022 – Present

- Project: CV/ML based fall detection model for elder persons, part of the SECUMAD, in collaboration with STARS, CoBTEK and NODEUS. Exploiting the advances in the Human pose estimation, our model takes as an input 2D/3D skeletons. This approach benefits from Human Pose Estimation, which is less sensitive to color and lighting conditions in the video or image. The final model was embedded in camera security system and ready for commercialisation.
- Supervisor: Prof. François Brémond - INRIA

Computer Vision Research Assistant || Full-time

Qatar University || Doha, Qatar || May 2020 – Dec 2021

- Project: Early Anomaly Recognition System for Qatar World Cup-2022 (EARS-Q2022) Computationally and data efficient convolutional neural networks (CNN) for action classification. With Operational Neural Networks (ONN) we achieved competitive results to big CNN architecture like EFDNET, but reducing significantly the number of parameters of the final models; this aspect ease the deployment and in device embedding. This solution was deployed during the FIFA world cup in Qatar 2022.
- Supervisor: Prof. Serkan Kiranyaz - Qatar University

Research Projects

Real Time Multimodal Baby Monitoring System

IFI Solution || Hanoi, Vietnam || June 2019 – November 2019

- Msc Internship: Light CNN model embedded in a Raspberry pi for real-time baby posture detection.
- Supervisor: Dr. NGUYEN Trong Phuc - IFI-Solution

Research Projects

3D laser data segmentation (3D point cloud)

Vietnam National University || Hanoi, Vietnam || Feb 2018 - June 2018

- M1 project: Ground segmentation from 3D point cloud data for autonomous vehicle vision
- Supervisor: Dr Ho Tuong Vinh, Vietnam National University

Ongoing Publications

- Anomaly Detection of Fire and Smoke with Operational Neural Networks, Qatar University, Doha, Qatar