ABDOUL DJALIL OUSSEINI

Area of interest: Computer Vision, Image Processing, Signal Processing, Natural Language Processing, Machine Learning, Deep Learning, Linear Algebra, Statistics

CONTACT

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https://github.com/djaliloh

EDUCATION

MSc || DATA SCIENCE

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

MSc || INFORMATION TECHNOLOGY

Vietnam National University || Hanoi, Vietnam
2017-2019

BSc || TELECOMMUNICATION

IAT – Niger || Niamey, Niger
2012 -2015

SKILLS

- IMAGE PROCESSING

Noise reduction (Gaussian filters), Contour detection (Canny filter), Image segmentation (Otsu method, Canny)

- COMPUTER VISION

Detection and tracking of objects, detection of points of interest (Harris, Sift)

- MACHINE/DEEP - LEARNING

Image Classification (CNN, ONN), Image Detection, Image Segmentation (CNN, ONN)

- PROGRAMMING LANGUAGES

Python, C/C++, Java, HTML/CSS, MySQL, Postgresql, JavaScrip, Django

EXPERIENCES

Research Engineer || Full-time
INRIA Sophia Antipolis || Nice, France || June 2022 – May 2023
Project: **CV/ML based fall detection model** *for elder persons, part of the SECUMAD, in collaboration with STARS, CoBTEK and NODEUS.* In analyzing videos, we identify key points of the human body using pose estimation techniques, enabling us to detect falls in the elderly. Our model takes 2D/3D skeletons as input, rendering it less sensitive to variations in color and and light conditions (of the video/image).
Keywords: Human Keypoint Estimation (HKE), action recognition, action detection, spatio-temporal action recognition
Tools: Python, Pytorch, Raspberry Pi
Supervisor: Prof. François Brémond - INRIA

Research Assistant || Full-time
Qatar University || Doha, Qatar || Feb 2021 – Dec 2021
Project: **Early Anomaly Recognition System** *for Qatar World Cup-2022 (EARS-Q2022)*
Public space monitoring for irregularities includes detecting fire or smoke, identifying abandoned luggage, and crowd surveillance.
Tools: Python, Pytorch
Supervisor: Prof. Serkan Kiranyaz - Qatar University

Msc thesis: Real Time Multimodal Baby Monitoring System
IFI Solution|| Hanoi, Vietnam || June 2019 – November 2019
Light CNN model embedded in a Raspberry pi for real-time baby posture detection.
Keywords: Object detection, action detection, baby monitoring, deep neural network.
Tools: Python, Tensorflow, Raspberry Pi
Supervisor: Dr. NGUYEN Trong Phuc - IFI-Solution

M1 project: LiDAR 3D data segmentation (3D point cloud)
Vietnam National University, Hanoi|| Feb 2018 - June 2018
Ground segmentation from 3D point cloud data for autonomous vehicle vision
Tools: C/C++, PCL
Supervisor: Dr Ho Tuong Vinh, Vietnam National University

Augmented Virtual Reality - (school group project)
Vietnam National University, Hanoi|| April 2018
Designing an educational project aimed at children for creating a pseudo solar system using Unity3D
Tools: C#, Unity3D

PUBLICATION

Ongoing:

Fire and Smoke detection using deeplearning with ONN and CNN, Qatar University, Doha, Qatar

Abdoul Djalil OUSSEINI

AWARDS

Programming hackathon, 2nd place
MapCom Niger || 2014

MENTORING

07/2021 - 12/2021

ABDOULAZIZI Y.Abdoul-Kader

College: Islamic University in Niger

Dept.: Faculty of Sciences and Technologies

LANGUAGES

French (fluent)

English (bilingual)

Arabic (reading)

Hausa, Zarma (native)

INTERESTS

- Reading
- Web savvy
- Watching Movies

DRIVER'S LICENSE

License, B category || Niamey - 2012

REFERENCES

Prof. Francois Bremond

Research Director DR1 at INRIA
Sophia Antipolis,
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Phone: +33 4 92 38 76 59
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Prof. Serkan Kiranyaz

Dept. of Electrical Engineering
College of Engineering, Qatar University
P. O. Box 2713, Doha, Qatar
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Dr. HO Tuong Vinh

Deputy Director and Lecturer at IFI-Vietnam National University,
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