ABDOUL DJALIL OUSSEINI HAMZA

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

CONTACT

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EDUCATION

MSc || DATA SCIENCE
La Rochelle University || France, La Rochelle
2019-2020

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 – 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 HKE with is less sensitive color rand light conditions (of the video/image).

Keywords: Human Keypoint estimation (HKE), action recognition, action detection, spatio-temporal action recognition

Supervisor: François Brémond

Research Assistant || Full-time
Qatar University || Doha, Qatar || Feb 2021 – 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.
Tools: Python, Pytorch, Matlab
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 classification.
Supervisor: Dr. NGUYEN Trong Phuc - IFI-Solution

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

PUBLICATIONS

Ongoing:

1. ***Fire/smoke detection using ONN***, Qatar University - Qatar
2. ***Unexpected crowd detection***, Qatar University and Tampere University - Finland

Abdoul-Djalil OUSSEINI H.

AWARDS

Programming hackathon, 2nd place
MapCom Niger || 2014

MENTORING

07/2021 - Present

ABDOULAZIZI Y.Abdoul-Kader
College: Islamic University in Niger
Dept.: Faculty of Sciences and Technologies

LANGUAGES

French (fluent)
English (professional)
Arabic (reading)
Hausa, Zarma (native)

INTERESTS

- Reading
- Web savvy
- Watching Movies

DRIVER'S LICENSE

License, B category || Niamey - 2012

REFERENCES

Prof. Serkan Kiranyaz
Dept. of Electrical Engineering
College of Engineering, Qatar University
P. O. Box 2713, Doha, Qatar
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Prof. Francois Bremond
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