Dounia AWAD

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INFORMATION

Born on 07/06/1987
Lebanese

LANGUAGES

French
English
Arabic

ARTIFICIAL INTELLIGENCE ENGINEER

COMPUTER VISION AND MACHINE LEARNING

Employment

Start Date	End Date	Institute/ Company	Country	Jobs and functions
02/2020	08/2020	LITIS	France	Artificial intelligence engineer : image processing and deep learning
12/2018	05/2019	CELAD	France	Artificial intelligence engineer : image processing and deep learning
01/2017	08/2018	Planorama	France	Artificial intelligence engineer : image processing and deep learning
12/2015	06/2016	Laboratory of Hubert Curien	France	Artificial intelligence engineer : image processing and augmented reality
08/2015	12/2015	Athlone Institute Technology	Ireland	Artificial intelligence engineer : image processing and deep learning
09/2014	04/2015	Laboratory of Vision	Portugal	Artificial intelligence engineer : image processing and deep learning
10/2013	08/2014	University of La Rochelle	France	Associate professor
10/2010	09/2014	University of de La Rochelle	France	PhD candidate
06/2010	08/2010	Center of Hamidi	Lebanon	Teacher

EDUCATIONS

2014   PhD in computer science : computer vision and Machine learning
2010   Master 2 Research : bio-informatic
2009   Master 1 : Management information system

SKILLS

Deep Learning
  CNN (AlexNet, VggNet, Resnet), Fast-RCNN, Squeeze-net, …. etc.
  Deep belief net, RBM, ….

Programming
   Ability to use different programming languages (C, C++, C #, Python and JAVA)

Operating system, scientific libraries

IDE	QT, Code Blocks et Visual Studio, Pycharm, Jupyter notebook
Libraries	OpenCV, boost, Libsvm, sklearn Caffe, DIGITS, Caffe2, Tensroflow, keras…
Operating system	Linux et Windows

Reports and scientific documents editing tools
  LyX, TeX, LaTeX, BibTeX, Microsoft Office and OpenOffice.

Publications

AWAD, D., Mancas M., Riche N., Courboulay V., & Revel, A. (2015). A CBIRR-based evaluation framework for Visual attention models. EUSIPCO 2015, 31 August-4 September 2015, Nice, France

AWAD, D., Courboulay V., & Revel, A. (2014). A new hybrid texture-perceptual descriptor: application CBIR. ICPR 2014, 24-27 August 2014, Stockholm, Sweden

AWAD, D., Courboulay V., & Revel A. (2012). Saliency Filtering of SIFT Detectors: Application to CBIR. ACIVS 2012, 4-9 September 2012, Brno, Czech Republic. vol.7517 springer (2012), p.290-300

AWAD, D., Courboulay V., & Revel, A. (2015). Toward a perceptual object recognition system, Electronic Letters on Computer Vision and Image Analysis (ELCVIA-2014 PhD Thesis Dissemnination).

AWAD, D., Courboulay V., & Revel A. (2016). Attentive content based-image retrieval, From Human Attention to Computational Attention. Chapitre de livre, springer.

EMPLOYMENT DETAILS

From 02/2020 to 08/2020: artificial intelligence engineer at LITIS – Rouen, France

Research themes : image processing and deep learning

- **Development using python** of machine learning methods (CNNs) for old newspaper analysis

Technical Environments :

Languages	python
Libraries	SSD, Tensorflow, keras
IDE	pycharm

Collaborators : Pierrick Tranouez

From 12/2018 to 05/2019: artificial intelligence engineer at Celad – Toulouse, France

Research themes : image processing and deep learning

- Consultant at Continental
- **Development using c++** of machine learning methods (CNNs) for driving assistanc

Technical Environments :

Languages	C++
Libraries	OpenCV
IDE	Visual studio

Collaborators : Rémy Trichet

From 01/2017 to 08/2018: artificial intelligence engineer at Planorama – Paris, France

Research themes : image processing and deep learning

- **Development using Python** of deep learning methods (CNNs) for products, brand and anomalies detection in Retail.
- Using Content Based Image Retrieval tools and deep learning methods
    - Using Main crafted methods (registration, image matching)
    - Using and modifying deep learning algorithms (cnn)

Technical Environments :

Languages	Python
Libraries	OpenCV, caffe, caffe2, DIGITS, Scikit-learn
IDE	Pycharm

Collaborators : Mickael Maillard, Xavier pécheur

From 12/2015 to 06/2016: artificial intelligence engineer at Laboratory of Hubert Curien – Saint Etienne, France

Research themes : image processing and augmented reality

- **Development using C++** of POC for Epigraphy mediation
- Using image processing tools (registration) :
    - Detection and selection of region of interest using image matching
    - Description and registration

Technical environments :

Languages	C++, Android

Referee

<u>Arnaud Revel</u>, Professor at University of La Rochelle, La Rochelle, France

<u>Mickael Maillard</u>, Lead of research at Planorama, Paris, France

<u>Ahmad shahin</u>, Professor at Lebanese University, Tripoli, Lebanon

From 09/2014 to 04/2015: Artificial intelligence engineer at Faro – Portugal

Research themes : image processing and deep learning

- Development of image representation using deep learning methods
- Use of Unsupervised methods (DBN) for object recognition system biological plausible

Technical environments :

Languages	Python, Matlab
Libraries	OpenCV, Caffe,
IDE	Jupyter notebook, Matlab

Collaborators : <u>M.Hans du buf</u>, <u>Kazim Terzic</u>

From 10/2013 to 09/2014   Associate Professor at University of La Rochelle - La Rochelle, France :

Course	Level	Number of hours	
		T.D	T.P
Java	L1	9	21
Open Office	L1		36
Web development	L1		6
Data Structure and C programmation	L2		39
Project for ISI master	M2		17
Sum		9	119

From 10/2010 to 09/2014: PhD candidates at Laboratory L3i – La Rochelle, France

 Research themes : image processing and machine learning

- Exploring Content Based image retrieval system
- Exploring saliency system (visual attention)
- **Development using C++** of Content based image retrieval system
- Proposition and development of filtering and selection tools for regions of interest in an image
- Proposition and development of a descriptor

Technical environments :

Languages	C++, C#
Libraries	OpenCV, boost
IDE	Visual studio

Collaborators : <u>M.Revel Arnaud</u>, <u>M.Courboulay Vincent</u>.