Mohamed Chelali

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PhD in computer science

Computer Vision

PROFESSIONAL EXPERIENCE

Temporary teaching and research associate (ATER) September 2021 – Today

IUT of Université de Paris

Teaching assignment : computer science teaching C/C++ JAVA

Research activity : Scientific exploration for the analysis of image time series for violence detection in remote monitoring videos

PhD student researcher October 2018 – November 2021

Université de Paris

Thesis subject : Image time series analysis involving spatial and temporal information, *mchelali.github.io/phd* C/C++ Python Gdal QGis Scikit-learn PyTorch

Supervised by Pr. Nicole Vinvent et Dr. Camille Kurtz

Teaching assignment : computer science teaching C/C++ JAVA CAML OpenCV

Internship : Satellite image time series analysis February – Jun 2018

Université Paris Descartes

Spatio-temporal features extraction for agricultural crop-fields classification Python Gdal QGis Scikit-learn

Supervised by Pr. Nicole Vinvent et Dr. Camille Kurtz

Internship : Student management system development Mars – Jun 2016

Université B.B.Arreridj, Algeria

Support for the entire development of the software RFID Reader C/C++ Qt5 MIFARE

Supervised by Samir Akrouf.

Internship : Virtual laboratory development Mars – Juin 2015

Université B.B.Arreridj, Algérie

Web development of the virtual laboratory vLab at the Maghreb level and participation in a face recognition project Python OpenCV Django

Supervised by Pr. Samir Akrouf

FORMATION

PhD in computer science — *Université de Paris*
Image time series analysis — *2018 – 2021*

Master in computer science — *Université Paris Descartes*
Image and plurimedia — *2016 – 2018*

Master 1 in computer science — B.B.Arreridj University
Network and multimedia — *2015 – 2016*

Bachelor in computer science — B.B.Arreridj University
Image processing — *2012 – 2015*

SCIENTIFIC PUBLICATIONS

International Journals

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., Deep-STaR : Classification of image time series based on spatio-temporal representations. *International Journal of Computer Vision and Image Understanding (CVIU)*, 2020

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., Influence of data representations and deep architectures in image time series classification. *International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI)*, 2020

French Conferences

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., Des pixels aux segments pour la classification de séries temporelles d'images via des réseaux de neurones convolutionnels. *Conférence Reconnaissance des Formes, Image, Apprentissage et Perception (RFIAP)*, 2020

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., Classification de séries d'images via une représentation spatio-temporelle. *Atelier sur l'Apprentissage Profond dans le cadre de la Conférence Extraction et Gestion des Connaissances (APTA@EGC)*, 2020

International Conferences

Chelali, M., Kurtz, C., Vincent, N., Violence detection from video under 2D spatio-temporal representations. *International Conference of Image Processing (ICIP)*, 2021

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., Classification of spatially enriched pixel time series with convolutional neural networks. *International Conference on Pattern Recognition (ICPR)*, 2020

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., From pixels to Random Walk based segments for image time series deep classification. *International Conference on Pattern Recognition and Artificial Intelligence (ICPRAI)*, 2020

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., Spatio-temporal stability analysis in Satellite Image Times Series. *International Conference on Pattern Recognition and Artificial Intelligence (ICPRAI)*, 2020

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., Image time series classification based on a planar spatio-temporal data representation. *International Conference on Computer Vision Theory and Applications (VISAPP)*, 2020

Chelali, M., Kurtz, C., Puissant, A., Vincent, N., Urban land cover analysis from satellite image time series based on temporal stability. *IEEE Joint Urban Remote Sensing Event (JURSE)*, 2019

SKILLS

Programming language : Python, C/C++, JavaScript, Java, Matlab, Bash

Web development : Flask, FastAPI, Django, Angular 4/5, Bootstrap

Libraries : PyTorch, TensorFlow, OpenCV, Gdal, Scikit-Learn

LEISURE

Swimming : 7 years of practice

Break dance : 5 years of practice