



MOHAMED CHELALI

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PHD IN COMPUTER SCIENCE

COMPUTER VISION

WORK EXPERIENCE

Temporary teaching and research associate (ATER)

September 2021 – Today

IUT of Université de Paris

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

Teaching: Computer Science C/C++ JAVA

PhD student researcher

October 2018 – November 2021

Université de Paris

Title: 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 Vincent and Dr. Camille Kurtz

Teaching: Computer Science C/C++ JAVA CAML OpenCV

Satellite image time series analysis

February 2018 – Jun 2018

Université Paris Descartes

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

Supervised internship by Pr. Nicole Vincent and Dr. Camille Kurtz

Student management system development

Mars 2015 – Jun 2016

B.B.Arreridj University, Algeria

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

Supervised internship by Pr. Samir Akrouf

Virtual laboratory development

Mars 2015 – Juin 2015

B.B.Arreridj University, Algeria

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

Supervised internship 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

Languages French (fluent), Arabic (fluent), English (professional proficiency)

Programming languages 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