Mohamed Chelali

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mchelali.github.io

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 teaching C/C++ JAVA

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 and Dr. Camille Kurtz

Teaching: computer science teaching 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 Vinvent 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