Mohamed Chelali

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mchelali.github.io

Ph.D. in computer science

Computer Vision

WORK EXPERIENCE

AI Applied Scientist Juin 2022 – Aujourd'hui
Jellysmack

- Design, prototyping and production of an engine with artificial intelligence to summarize a video.
- Internal consultant for image description in phrases, tags and other descriptors.
  Python | HuggingFace | Amazon Web Services | Computer Vision | Natural Language Processing

Ph.D. student researcher October 2018 – Mai 2022
Université de Paris

- 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
- Research on satellite imagery and violence detection in videos
- Teaching in Computer Science C/C++ | JAVA | CAML | OpenCV

EDUCATION

Ph.D. in computer science *Université de Paris*
Image Time Series Analysis *2018 – 2021*

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

SKILLS

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

Web development: Flask, FastAPI, Bootstrap

Programming: Python (PyTorch, TensorFlow, OpenCV, Scikit-Learn), C/C++ (OpenCV), Java

LEISURES

Swimming: 7 years of practice

Break dance: 5 years of practice

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