Mohamed Amine KERKOURI

PHD STUDENT · COMPUTER SCIENCE

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Education

University of Orleans *Orleans, France*
PHD COMPUTER SCIENCE *02/2020 - present*
- Advisor: Aladine CHETOUANI, Ph.D., Assitant Professor, Polytech Orléans, France.

Institut National Des Télécommunications et des Technologies de l'Information et de la Communication (INTTIC) *Oran, Algeria*
ENGINEER INFORMATION AND COMMUNICATION TECHNOLOGIES *09/2014 - 07/2019*
- Advisor: Sid Ahmed FEZZA, Ph.D., Assitant Professor, INTTIC, Oran, Algeria.

Professional Experience

09/2020-present	**Graduate Teaching Assistant**, Polytech Orleans, France
2020-Present	**Phd Student**, Laboratoire PRISME, France
02/2019-05/2019	**Big Data Intern**, VEON Djezzy, Algeria
07/2018-08/2018	**Data Science Intern**, VEON Djezzy, Algeria

Skills

Programming, Python, Java , JavaScript, HTML, CSS, PHP , Wordpress, MySQL, PostgreSQL. Pytorch, Tensorflow, Scikit Learn, Numpy,n Matplotlib, Seaborn, Scipy , OpenCV.
Machine Learning, Deep Neural Networks, CNN/RNN , Self-Supervised Learning, Domain Adaptation, Bayesian Neural Networks, Variational Auto-encoders, Generative Adversarial networks.
Big Data & Data Analysis, Descriptive statistics, Inferential Statistics , Probability, Exploratory Data Analysis (EDA), Extract, transform, load (ETL), Apache Hadoop, Apache NiFi, Apache Kafka, Apache Ignit.

Publications

PUBLISHED

M. A. Kerkouri , M. Tliba, A. Chetouani and R. Harba, "Salypath: A Deep-Based Architecture For Visual Attention Prediction," 2021 IEEE International Conference on Image Processing (ICIP), 2021, pp. 1464-1468, doi: 10.1109/ICIP42928.2021.9506295.

Kerkouri Mohamed Amine, , Tliba Marouane , Chetouani Aladine , Sayeh Mohamed , "SalyPath360: Saliency and scanpath prediction framework for omnidirectional images" in Proc. IS&T Int'l. Symp. on Electronic Imaging: Human Vision and Electronic Imaging, 2022, pp 168-1 - 168-7, https://doi.org/10.2352/EI.2022.34.11.HVEI-168

Kerkouri Mohamed A., Chetouani Aladine , "A simple and efficient deep scanpath prediction" in Proc. IS&T Int'l. Symp. on Electronic Imaging: Human Vision and Electronic Imaging, 2022, pp 188-1 - 188-7, https://doi.org/10.2352/EI.2022.34.11.HVEI-188

M. A. Kerkouri* , M. Tliba*, A. Chetouani and A. Bruno. "Self Supervised Scanpath Prediction Framework for Painting Images," 2022 IEEE Computer Vision and Pattern Recognition (CVPR-W), 2022, 10.1109/CVPRW56347.2022.00160.

M. A. Kerkouri , M. Tliba, A. Chetouani and A. Bruno. "A domain adaptive deep learning solution for scanpath prediction of paintings," 2022 Content-Based Multimedia Indexing (CBMI), 2022, 10.1145/3549555.3549597.

IN PREP

M. A. Kerkouri , M. Tliba, A. Chetouani and A. Bruno. "DAGAN-P: A domain adaptive scanpath prediction GAN for paintings,".

M. A. Kerkouri , M. Tliba, A. Chetouani and A. Bruno. "A self supervised Bayesian network for painting scanpath prediction,"

Presentations

CONTRIBUTED PRESENTATIONS

KERKOURI, M.A. 2020. Scanpath prediction and application for Art. Departmental seminar: Polytech Orleans, Orleans, France.

KERKOURI, M.A. 2021. Basics of CNNs for computer vision. Departmental seminar: Polytech Orleans, Orleans, France.

KERKOURI, M.A, Chetouani, A. . 2021. TicArt : Painting Digitization and behavioural perception studies. International RTR-Diams: Polytech Orleans, Orleans, France.

Teaching Experience

Spring 2022	**MathInfo II : Object-Oriented C++ for computation**, Teaching Assistant	*Polytech , Orleans, France*
Fall 2022	**MathInfo I : Introduction to programming using C++**, Teaching Assistant	*Polytech , Orleans, France*
Spring 2021	**MathInfo II : Object-Oriented C++ for computation**, Teaching Assistant	*Polytech , Orleans, France*
Fall 2021	**MathInfo I : Introduction to programming using C++**, Teaching Assistant	*Polytech , Orleans, France*

Mentoring & supervision

2021	**BA Ibou Lay**, Ms Student, Université de Aix-Marseille	*Orleans, France*
2020	**Zhe Wang**, Ms Student, IMT Lille	*Orleans, France*

Research Experience

INTERESTS

- Deep Learning, Self-supervised Learning, Bayesian Neural Networks, Domain adaptation, Visual Attention, Image perception.

PROJECTS

University of Orleans *Rue de Blois*

SUPERVISORS: DR. ALADINE CHETOUANI *2020, 2023*

- Projects: TicArt : Regional Project with the Partnership of C2RMF research center and 10 museums for painting digitization and perceptual behaviour study.

University of Orleans & University of Tours

SUPERVISORS: DR. ALADINE CHETOUANI *2022, ...*

- Projects: ARTISM : Project with the Partnership of Inserm Institut for Health and Medical Research for the study of perceptual behaviour of autistic patients using painting images.

Outreach & Professional Development

SERVICE AND OUTREACH

2021 **Salon-Forum des professionnels culture patrimoine tourisme**, Presenter *Blois, France*

DEVELOPMENT

Program Committee member HBAxSCES workshop ICIAP 2021 1st Workshop.

Organizers Committee member, Webmaster 20th International Conference on Content Based Multimedia Indexing 2023
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PEER REVIEW

Reviewer : Computer Vision Pattern Recognition CVPR-W NTIRE 2022
Reviewer : ICIP 2022
Guest Editor : Journal of Imaging : Special Issue (HBAxSCES) 2022