EDEN BELOUADAH, PH.D.

Personal Information ADDRESS: Paris, France eden.belouadah@yahoo.fr EMAIL: Scholar | GitHub | LinkedIn | Kaggle LINKS: **EDUCATION** Ph.D. in Artificial Intelligence - Continual Learning DEC. 2021 IMT Atlantique, Brest & CEA-LIST, Paris-Saclay, France. Master's degree in Machine Learning - Ranked 2/40 SEP. 2018 University of Paris-Saclay, Orsay, France. Master's degree in Artificial Intelligence - Ranked 1/40 **JUNE 2017** University of Sciences and Technology Houari Boumediene (USTHB), Algiers, Algeria. Bachelor's degree in Mathematics and Computer Science - Ranked 2/80 **JUNE 2015** University of Sciences and Technology Houari Boumediene (USTHB), Algiers, Algeria. Professional Experience Deep Learning Researcher | Datakalab, Paris, France DEC. 2021 - PRESENT Tools: Continual Learning, Object Detection, LLMs, Jira, Git, Tensorflow, Pytorch, AWS, GCP, SLURM RESEARCH AND DEVELOPMENT INTERNSHIPS Continual Deep Learning | CEA-LIST, Paris-Saclay, France MAR. 2018 - SEP. 2018 Tools: Convolutional Neural Networks, Support Vector Machines, Python Pytorch, Git, SpaCy, Numpy, Scikit-Learn, Latex Adaptation of "Bee Swarm Optimization" for continuous problems | LRIA, Algeria JAN. 2017 - JUN. 2017 Tools: Meta-heuristics, Continuous Optimization Problems, Java, GUI, Latex, Git. Fall detection of elderly people using Kinect sensor | LRIA, Algeria JAN. 2015 - JUN. 2015 Tools: C, C#, QtCreator, OpenCV, Microsoft SDK, Visual Studio, Matlab, Kinect

THEORETICAL AND TECHNICAL SKILLS

Operating Systems: Linux, Windows, MacOS

Computer Vision: Classification, object detection, segmentation, image generation

Natural Language Processing: Large Language Models, Parameter-Efficient Fine-Tuning, Named Entities Recognition, Sentiment Analysis, CRF Wapiti, Text Mining

Al Models: Multi-Layer Perceptrons, Convolutional Neural Networks, Generative Adversarial Networks, Hidden Markov Models, Transformers, Decision Trees, KNN, Support Vecteor Machines

Languages: Python, C, Git, Latex **Frameworks**: PyTorch, Keras

SELECTED PUBLICATIONS (SEE FULL LIST HERE)

Belouadah, E., Dapogny, A., Bailly, K., "MultIOD: Rehearsal-free Multihead Incremental Object Detector". Under review. Pre-print: https://arxiv.org/abs/2309.05334

Lomonaco, V., Lorenzo, P., Cossu, A., Carta, A., Graffieti, G., Hayes, T....<u>Belouadah, E.,....</u> Popescu, A....(*long list*). "Avalanche: an End-to-End Library for Continual Learning". Proceedings of the Computer Vision and Pattern Recognition workshops (W-CVPR 2021).

Belouadah, E., Popescu, A. and Kanellos, I., 2020. A Comprehensive Study of Class Incremental Learning Algorithms for Visual Tasks. Elsevier's Neural Networks, t. 135, pp. 38-54.

Belouadah, E. and Popescu, A., 2020. ScalL: Classifier Weights Scaling for Class Incremental Learning. The IEEE Winter Conference on Applications of Computer Vision (WACV 2020), pp. 1266-1275. Belouadah, E. and Popescu, A., 2019. IL2M: Class incremental learning with dual memory. Proceedings of the IEEE International Conference on Computer Vision (ICCV 2019). pp. 583-592. Belouadah, E. and Popescu, A., 2018. DeeSIL: Deep-Shallow Incremental Learning. Proceedings of the European Conference on Computer Vision workshops (W-ECCV 2018). BOOKS Belouadah, E., Abbad, H. and Zebbouchi, A., 2017. Learn to program in C language. Translated from French to Arabic (original title: 'Apprenez à programmer en C!, Mathieu Nebra). (link). SELECTED CERTIFICATIONS (SEE FULL LIST HERE) Generative AI with Large Language Models (16 hours)
Deep Learning Specialization (122 hours) (cert. 1 | cert. 2) DeepLearning.Al Ongoing DeepLearning.Al Ongoing Advanced Python: going further (5 hours) (certificate) Udemy DEC. 2022 Google Cloud Platform (GCP) Fundamentals for Beginners (4 hours) (certificate) Udemy Nov. 2022 Git and Gitlab: from beginner to professional (9 hours) (certificate) Udemy JUL. 2022 Deep Learning for Computer Vision with Tensorflow 2 (12 hours) (certificate) Udemy FEB. 2022 AWS Machine Learning Course (8 hours) (certificate) Udacity JUL. 2020 TEACHING **Deep Learning** DEC. 2020 - FEB. 2021 Students of 2nd year of Master's, Centrale Supélec Superior School (Paris-Saclay) **Operating Systems (Unix)** SEP. 2020 - DEC. 2020 Students of 2nd year of Bachelor's, Paris-Sud university (Paris-Saclay). SUPERVISING Research internship on Continual Learning without memory MAR. 2021 - SEP. 2021 Habib Slim (habib.slim@grenoble-inp.org), ENSIMAG, Grenoble, France. REVIEWING Elsevier's Neurocomputing Journal AUG. 2022-PRESENT CLVISON Workshop, Computer Vision and Pattern Recongnition (W-CVPR). MAR. 2023 Winter Conference on Applications of Computer Vision (WACV) AUG 2022 AUG. 2021 Winter Conference on Applications of Computer Vision (WACV). British Machine Vision Conference (BMVC 2021). JUNE. 2021 British Machine Vision Conference (BMVC 2020). AUG. 2020 **ACTIVITIES AND AWARDS** Virtual Participation in the NASA Space apps challenge. OCT. 2019 3rd position in iFood-2019 Kaggle challenge with CEA-LIST Team, France Jun. 2019 1st position in LEGO Mindstorms EV3 DZBOT challenge, Free Forward Team, Algeria. DEC. 2015 4th position in video games development challenge (AGC), Brother & Sister Team. Algeria. MAY 2015 1st position in the National Judo Championship, Médéa, Álgeria. JUL. 2010 LANGUAGES Arabic - French - English

Autonomy, team spirit, motivation, dedication

SOFT SKILLS

INTERESTS AND EXTRACURRICULAR ACTIVITIES

Traveling - reading - playing video games - practicing sports