Mastane Achab, PhD

Abu Dhabi, UAE

mastane.achab@gmail.com

PUBLICATIONS

Lightlike pseudo-Riemannian adaptive gradient method	preprint, 04/2025
A Bregman firmly nonexpansive proximal operator for baryconvex optimization	preprint, 11/2024
Investigating regularization of self-play language models	preprint, 04/2024
Deep reinforcement learning algorithms for hybrid V2X communication	IEEE ICC 2024, 06/2024
A risk-averse framework for non-stationary stochastic bandits	ICDM WS, 12/2023
Theory and algorithm for sum-log-concave optimization	preprint, 09/2023
One-step distributional reinforcement learning	TMLR, 08/2023
A nested matrix-tensor model for noisy multi-view clustering	preprint, 05/2023
Distributional deep Q-learning with CVaR regression	NeurIPS WS, 12/2022
Checkered Regression	preprint, 02/2022
Robustness via distributional dynamic programming	preprint, 12/2021
Weighted empirical risk minimization	ESANN, 10/2020
Dimensionality reduction and (bucket) ranking	ALT, 03/2019
Profitable bandits	ACML, 11/2018
Ranking data with continuous labels	NeurIPS, 12/2017
Max k-armed bandit: on ExtremeHunter and beyond	ECML-PKDD, 09/2017

EXPERIENCE

Technology Innovation Institute (TII), Abu Dhabi, UAE AI Researcher	2022 - 2024
Pompeu Fabra University, Barcelona, Spain Postdoc researcher: distributional dynamic programming, safety	2020 - 2021
DeepMind, London, UK PhD internship: distributional (and deep) reinforcement learning, exploration	2019 (5 months)
Inria, SequeL team, Villeneuve d'Ascq, France Research internship: multi-armed bandit, shortest path problem	2015 (5 months)

EDUCATION

Télécom Paris, LTCI lab, Palaiseau, France PhD thesis: 'Ranking and Risk-Aware Reinforcement Learning'	2016 - 2020
École normale supérieure de Cachan, Cachan, France MSc 'MVA': machine learning	2015 - 2016
École polytechnique, Palaiseau, France MSc: applied mathematics, computer science	2012 - 2015

TECHNICAL STRENGTHS

Programming	Python, PyTorch, TensorFlow
Languages	French (fluent), English (fluent)