Federico Baldo

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Viale del Risorgimento 2, 40136, Bologna (BO)

Federico Baldo was born on November 22, 1994, in Cividale Del Friuli

EDUCATION

PhD - Computer Science and Engineering   *November 2020 - October 2023*
University of Bologna - Department of Computer Science and Engineering

Master's degree in Computer Science   *September 2016 - July 2019*
University of Padova - Department of Computer Science
Deep Learning for Probability Estimation in Optimization Problems

Bachelor's degree in Computer Science   *September 2013 - December 2016*
University of Udine - Department of Computer Science

ACADEMIC ACTIVITIES

Visiting Period   *September 2022 - March 2023*
Institut Pierre Louis d'Epidmiologie et de Sant Publique (France)
Transfer Informed Deep Learning for Epidemics Forecasting

Academic tutor for the course of Informatics' Foundation   *March 2020 - June 2022*
University of Bologna
Automation Engineering and Computer Engineering

Fellow Researcher   *October 2019 - October 2020*
University of Bologna - Department of Computer Science and Engineering
Advancements in Empirical Model Learning With Application on Transprecision Computing

WORK EXPERIENCE

Python Developer & Project Specialist   *January 2016 - January 2017*
Infolab iRecovery Group Srl (Verona)
Sentiment Analysis for Social Media Management

TECHNICAL SKILLS

Programming Languages	Python, C, Java, Haskell
Machine Learning Libraries	Tensorflow, Keras, Pytorch
Optimization Tools	OR-Tools, IBM ILOG CPLEX
Other Skills	LaTeX, Google App Engine, ITILv3 (basic)

LANGUAGES

Italian	Native language
English	Advanced (C1) - *self-assessed*
Spanish	Basic (A2) - *self-assessed*

CONFERENCE PUBLICATIONS

An analysis of Universal Differential Equations for data-driven discovery of Ordinary Differential Equations

Mattia Silvestri, Federico Baldo, Eleonora Misino and Michele Lombardi

ICCS 2023

Informed Deep Learning for Epidemics Forecasting

Federico Baldo, Michele Iannello, Michele Lombardi, Michela Milano

PAIS 2022 - Presenting Author

Lagrangian Duality for Constrained Deep Learning [1]

Ferdinando Fioretto, Pascal Van Hentenryck, Terrence WK Mak, Cuong Tran, Federico Baldo, Michele Lombardi *ECML PKDD 2020*

Injective Domain Knowledge in Neural Networks for Transprecision Computing [2]

Andrea Borghesi, Federico Baldo, Michele Lombardi and Michela Milano

LOD 2020 - Presenting Author

WORKSHOP PUBLICATIONS

An Analysis of Regularized Approaches for Constrained Machine Learning [3]

Michele Lombardi, Federico Baldo, Andrea Borghesi, Michela Milano

TAILOR 2020

Integrating Deep Learning and Optimization for Epidemic Control [4]

Federico Baldo, Andrea Borghesi, Michele Lombardi

IJCAI-DSO 2021 - Presenting Author

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[1] https://arxiv.org/abs/2001.09394
[2] https://arxiv.org/abs/2002.10214
[3] https://arxiv.org/pdf/2005.10674
[4] https://arxiv.org/pdf/2005.10674