Marco Parola

Ph.D. candidate

MLPI member

Last update: November 22, 2023

Up-to-date version of CV is available at
https://MarcoParola.github.io/cv

Linkedin

Telegram

GitHub

Stack Overflow

Email

PhD student enrolled in the Information Engineering course at the University of Pisa (Italy). Professional interest areas include research in the fields of deep learning, computer vision and explainable artificial intelligence. Great enthusiasm for open source and open data principles: actively contributing to the Stack Overflow community and GitHub.

Education

01/11/2022 - present

Ph.D.

Ph.D. in Information Engineering enrolled in the XXXVIII cycle of the PhD in Information Engineering at University of Pisa. (in progress)

15/10/2019 - 18/02/2022

Master degree

Master degree in Artificial Intelligence and Data Engineering at University of Pisa. Mark: 110/110

08/11/2015 - 14/10/2019

Bachelor degree

Bachelor degree in Computer Engineering at University of Pisa. Mark: 97/110

Python	●●●●	DL	●●●●	OpenCV	●●●●	XAI	●●●●	ML	●●●●	Data	●●●●
Linux	●●●●	Git	●●●●	Backend	●●●○	Frontend	●●●○	Web	●●●○		

Professional Experience

01/11/2022-present

Ph.D. candidate

Ph.D. candidate enrolled in Information Engineering phd program at University of Pisa.

Deep Learning | XAI | Medical Imaging | Computer Vision

01/05/2022-31/10/2022

Research fellow

Research fellow on "Decision support systems with explainable models for diagnosis and prognosis based on medical images" funded by MUR-PRIN REASONIG 2020 project, supervisors Prof. Gigliola Vaglini and Prof. Mario GCA Cimino; at University of Pisa.

Deep Learning | XAI | Medical Imaging | Computer Vision

15/10/2021-30/04/2022

Machine learning engineer

Machine learning engineer at Move Solutions - Move S.r.l., Lucca. Part time. I developed microservices to be integrated into the Move Solutions platform architecture to provide ML analysis on sensor signals.

Python | Flask | MongoDB | Signal processing | Sensors

01/09/2019-15/06/2021

Software developer

Software developer at 5Space S.n.c., Livorno. I worked part-time on OptGear project, a web application to perform optimization calculations for mechanical gears, which finds the best combination of gear parameters.

.NET | ASP.NET | MSSQL | C# | web

30/07/2018-31/01/2019

Software developer intern

Software developer at Labortori Archa S.r.l., Pisa. Internship. Implementation of LIMS (Laboratory Information Management System) using Microsoft technology stack.

.NET | ASP.NET | MSSQL | C# | web

Publications

C

2023

Parola, M., La Mantia, G., Galatolo, F., Cimino, M.G., Campisi, G., Di Fede, O., 2023. Image-based screening of oral cancer via deep ensemble architecture, in: 2023 IEEE Symposium Series on Computational Intelligence (SSCI), IEEE. pp. 1570–1576. doi:10.13140/RG.2.2.24070.34880

source code

Object Detection | Medical Imaging | Deep Leraning | Ensemble Learning | Oral Cancer

C

2023

Simionato, G.; Parola, M.; and Cimino, M.; (2023). Impressionist Hole Detection and Healing Using Swarms of Agents with Quantized Perception. In Proceedings of 2023 IEEE Symposium Series on Computational Intelligence. (2023).

source code

Drone | Swarm Intelligence | Hole Detection

C

2023

Parola, M.; Dirrhami, H.; Cimino, M. and Squeglia, N. (2023). Effects of Environmental Conditions on Historic Buildings: Interpretable Versus Accurate Exploratory Data Analysis. In Proceedings of the 12th International Conference on Data Science, Technology and Applications - DATA; ISBN 978-989-758-664-4; ISSN 2184-285X, SciTePress, pages 429-435. DOI: 10.5220/0012119700003541

source code

Regression | Stuctural Health Monitoring | Deep Leraning | Sensors | Tower of Pisa

C

2022

Cimino, M.; Galatolo, F.; Parola, M.; Perilli, N. and Squeglia, N. (2022). Deep Learning of Structural Changes in Historical Buildings: The Case Study of the Pisa Tower. In Proceedings of the 14th International Joint Conference on Computational Intelligence (IJCCI 2022) - NCTA; ISBN 978-989-758-611-8; ISSN 2184-3236, SciTePress, pages 396-403. DOI: 10.5220/0011551800003332

source code

Stuctural Health Monitoring | Deep Leraning | Sensors | Tower of Pisa

C

2022

Parola, M.; Galatolo, F.; Torzoni, M.; Cimino, M. and Vaglini, G. (2022). Structural Damage Localization via Deep Learning and IoT Enabled Digital Twin. In Proceedings of the 3rd International Conference on Deep Learning Theory and Applications - DeLTA; ISBN 978-989-758-584-5; ISSN 2184-9277, SciTePress, pages 199-206. DOI: 10.5220/0011320600003277

source code

data

Stuctural Health Monitoring | Deep Leraning | Sensors | Digital Twin