

Riccardo Scheda

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PhD Student

Formation

- November 2020-Present PhD student in Bioengineering, Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi", University of Bologna, Italy. Research topic: *Advanced Artificial Intelligence Techniques for Health and Well being*. Supervisor: Prof. Stefano Diciotti
- 2018-2020 Master's Degree in Physics, 110/110 cum laude, University of Bologna, Department of Physics and Astronomy, Bologna, Italy. Final Dissertation: "*Modeling cell differentiation using dynamical systems on graphs*", Supervisor Prof. Armando Bazzani (University of Bologna) and Prof. Fabio Luciani (University of New South Wales, Sidney, Australia)
- 2015-2018 Bachelor's Degree in Physics, 110/110, University of Bologna, Department of Physics and Astronomy, Bologna, Italy. Final Dissertation: "*Master Equation per modelli di Lotka-Volterra*", Supervisor: Prof. Armando Bazzani (Università of Bologna)

Followed Events

- 1/11/2021 - 43rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society held - Online Workshop
- 08/02/2021 - GIDRM "Workshop artificial intelligence in NMR, MRI and neuroscience" - Online workshop
- 31/03/2021
- 17/03/2021 "Can GAIA-X transform Europe's industrial tech?" - Online webinar
- 26/11/2020 "NVIDIA AI Technology Centre Italy 'explained'" - Online webinar
- 12/11/2020 - IEEE EMBS Grand Challenges Forum, "IEEE Online Covid-19 Healthcare, screening, tracing and treatment." - Online webinar
- 15/11/2020
- 7/09/2020 - XXXIX Bioengineering Annual School, "AI-enabled health care: from decision support to autonomous robots" - Online Summer School
- 10/09/2020

Skills

- Operating Systems GNU/Linux (Debian / CentOS), MacOS, Windows
- Softwares Microsoft Office, Visual Studio Code, Docker, Atom, Git, VirtualBox, Anaconda
- Programming Languages
 - Python: very good
 - C/C++ : good
 - Bash: good
 - L^AT_EX: good
 - MatLab: basics
 - R: basics
- Spoken Languages
 - Italian: native speaker
 - English: IELTS C1

Publications

- Yagis, E.; Atnafu, S.W.; García Seco de Herrera, A.; Marzi C.; Scheda R.; Giannelli M.; Tessa C.; Citi L; Diciotti S., *Effect of data leakage in brain MRI classification using 2D convolutional neural networks*. «SCIENTIFIC REPORTS» (2021)
- Scheda R.; Vitali S.; Giampieri E.; Pagnini G.; Zironi I., *Study of Wound Healing Dynamics by Single Pseudo-Particle Tracking in Phase Contrast Images Acquired in Time-Lapse*. «ENTROPY», (2021)

Thesis Contributions

Co-Supervisor of Dott. Riccardo Benedetti, Supervisor: Prof. Stefano Diciotti, Dissertation entitled: *Neuroimaging e disturbo dello spettro autistico: classificazione con approccio explainable AI*, Master Degree in Biomedical Engineering, University of Bologna

Collaborations

Project: Collaboration with *Istituto Nazionale di Fisica Nucleare (INFN)*. The aim of this project *Re-usable Data Analysis Tools* is to develop and apply an ecosystem of tools to improve the use, accessibility, and reproducibility of machine learning data analysis for medicine and neuroimaging.

ASD Diagnosis Collaboration with Prof. Claudio Paolucci, Department of Philosophy and Communication Studies, University of Bologna; Aim of the collaboration: Implementation of machine learning algorithms to predict ASD diagnosis from behavioral data of children

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