Gaetano Saurio

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Dream

I'm driven by a profound passion for unravelling the complexities of AI and its application in understanding nature's marvels while contributing to meaningful advancements for humanity. My curiosity extends towards pioneering approaches leveraging data to address pressing human challenges while safeguarding our planet's ecological balance. I dream of embracing study without forsaking creativity, openness, compassion, and reverence for nature.

Employment History

2016 – 2022	**Tenured computer science teacher ,** Italian Ministry of Education.
2021	**Freelance corporate trainer,** Leonardo.
2018 – 2019	**Big Data developer/consultant,** Rugghia & As. for Team System.
2015 – 2018	**Maker-inventor,** Poommarobot.

Education

2022 ⋯   **Ph.D. in Data Science, Sapienza University of Rome**.
Proposed thesis title: *Deep Plant Understanding.*

2019   **First-level Profess. Master's Programs, G.Fortunato University** in Edu innovation.
Thesis title: *The future of School: Artificial Intelligence and Virtual Reality.*

2018   **First-level Profess. Master's Programs, e-campus University** in Edu innovation.
Thesis title: *Artificial Intelligence and Autism.*

2017   **First-level Profess. Master's Programs, G.Fortunato University** in Edu innovation.
Thesis title: *New frontiers of educational tools: from IWB to STEM Robotics.*

2015   **M.Sc. in Computer Science, Federico II University of Naples** Robotics.
Thesis title: *Platform for an Open-Oriented, Multipurpose, Mobile, Approach to ROBOTics.*

Research Publications

Journal Articles

[1] A. Carraro, G. Saurio, and F. Marinello, "Towards rigorous dataset quality standards for deep learning tasks in precision agriculture: A case study exploration," *Available at SSRN 4789228,*

Conference Proceedings

[1] A. Carraro, G. Saurio, A. López-Maestresalas, S. Scardapane, and F. Marinello, "Convolutional neural networks for the detection of esca disease complex in asymptomatic grapevine leaves," in *International Conference on Image Analysis and Processing,* Springer, 2023, pp. 418–429.

[2] G. Saurio, M. Muscas, I. Spinelli, V. Rughetti, I. Della Giovampaola, and S. Scardapane, "Archeoweednet: Weed classification in the parco archeologico del colosseo," in *International Conference on Image Analysis and Processing,* Springer, 2023, pp. 430–441.

Skills

Languages	Strong reading, writing and speaking competencies in Italian and English.
Coding	Python, C, C++, Java, SQL, XML, LaTeX, …
Libs	PyTorch, Keras, Numpy, Pandas, Scikit-learn, Matplotlib, PySpark, Anaconda, Jupyter, …
Robots …	Smartphone-based robotics, Linux, Android, IoT, Nvidia Jetson Tx2, etc, …
Misc	Academic research, teaching, training, consultation, vision, motivation, passion, creativity, innovation, collaboration, flexibility, independence, diversity and inclusion-orientation, openness, …

Miscellaneous Experience

Certifications and schools

2023	**School on GNN and Explainable AI**. University of Liverpool (UK).
	III Mediterranean Machine Learning Summer School. American College of Thessaloniki (Greece).
2022	**II Mediterranean Machine Learning Summer School**. Bicocca University of Milan (Italy).
	Deep Learning Specialization . Andrew Ng.
2019	**Machine Learning**. Stanford with Coursera.

Personal interests

2019…	**Macrophylla** , guitarist, singer-songwriter.
2010…	Volunteer for refugees, for the environment and animal shelters, …
2004…	Gardener, traveller, …

References

Available on Request