Riccardo Franceschini

Robotic Researcher

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About Me

I am a curious and passionate robotic researcher who loves tackling new challenges and pushing the boundaries of deep learning. Always eager to explore, I thrive on turning innovative ideas into real-world solutions.

Skills

- Python
- C++
- Pytorch
- OpenCV
- Docker
- Git
- Unity 3D
- Open 3D
- ROS1/2
- Tensorflow Lite
- Linux
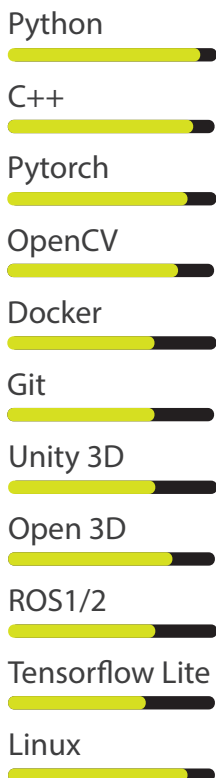
Languages

Spanish	Professional
Italian	Native
English	Professional
Catalan	Basic

Publications

7 publications at international confereces and workshops

Google Scholar Profile

https://tinyurl.com/wy7yvbty

Passions
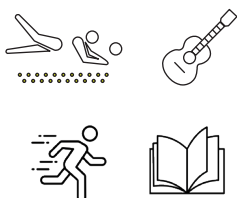
Work Experiences

Robotic Researcher @ Eurecat
jul 2021 - now

Developing and deploying advanced autonomy and shared-autonomy teleoperation for aerial inspection. It integrates augmented reality elements and deep learning approaches, running on embedded hardware, to retain human decision-making while leveraging autonomy features

Technology used : C++, Python, Pytorch, Robot Operating System (ROS1/2), OpenCV, Open3D, Unity 3D, TensorFlow, Docker, Git, DDS

Deep Learning Researcher @ University of Trento
feb 2020- jul 2021

Development of deep learning multimodal attention methods, combining combining extracted information from text, audio and video for emotion recongition in the context of human robot interaction

Technology used : Python, Pytorch, Numpy, Sci-kit, Pandas, Docker,Git

Deep Learning Researcher @ FBK
oct 2020 - dec 2020

Research on for an external company on unsupervised human pose keypoint estimation from video sources

Technology used : Python, Pytorch, Numpy, Sci-kit, Pandas, Git

Deep Learning Researcher @ Bosch
feb 2020- oct 2020

Development of deep learning attention methods for pedestrian and vehicle future trajectory prediction in the context of autonomous driving

Technology used : Python, Pytorch, Docker, Git

Full Stack Developer Intern @ Zucchetti Healthcare
mar 2018- jun 2018

Development front-end and back-end of a Social Media Website in nursing houses for supporting reminesce activities.

Technology used : HTML, CSS, React Js, Node Js, SQLite

Studies

PhD, Human-Robot Interaction
2021-2024

Industrial Robotic & AI PhD at Danish Technical University conducted at Eurecat (Spain) under the MSCA-ITN programme

Thesis Title : : Designing a Human-Drone Interaction: Insights from the AeroAssistant Framework

MSc, Autonomous Systems
2018-2020

European Double Program at University of Trento (Italy) and Aalto University (Finland) under the EIT Digital Master Programme

Major Robotics & AI | Minor Business & Entrepreneurship

Thesis Title: Feasible and adaptive attention-based models for multimodal trajectory prediction in urban driving scenarios

BSc, Computer Science
2015-2018

Bachelor degree at University of Trento, Italy, ranked 1st for CS in Italy