Lucci Niccolo'

PhD Student

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Education

Politecnico di Milano
M. Sc. in Automation and Control engineering | 2017-2020 | 110L/110

Shanghai Jiao Tong University
(Double degree program)
M. Sc. in Control Science engineering | 2018-2019 |
GPA 3.88/4

Politecnico di Milano
B. Sc. in Automation and Control engineering | 2014-2017 | 106/110

Skills

Programming Languages: C++, ROS, ROS2, Git, Unity, C# and Python.
OS : Linux, Windows.
Main Topics : Manipulative Robotics, Task Action Motion Planning, Robotic Semantic Understanding, Artificial Intelligence.
Languages : Italian(mother tongue), English(IELTS:6.5) and Spanish (basic level).

About me

Robotics innovator versed in independent and team-based projects to enhance research, design, development and testing of robotic systems. Experienced in completing complex calculations and code reviewing designs. Excellent resilience, and coding skills useful in code development and developer management.

Work History

2020 - Now — Phd candidate in Information Technology at Politecnico di Milano
I am currently a PhD student at Merlin Laboratory under the supervision of the Prof. Andrea Maria Zanchettin. My research area deals with Task Action Motion Planning (TAMP) through Kinestetich Teaching for robotics manipulators.

2020 - 2020 — Consultant Engineer at Logistics Reply
For four months I developed, updated and organized MYSQL databases to handle customer dataset.
Modified existing databases to meet unique needs and goals determined during initial evaluation and planning process.

Research and Projects

2023 — Competition: Winners of Kuka Innovation Award 2023
A team composed of four people from Merlin Lab. joined the Kuka Innovation Award 2023. Kuka granted us free of charge the new LBR iisy together with a ROS2 interface to develop our application. As part of the team I lead and developed the Software part.

2022 — Publication at ROMAN 2022 - Naples
Title: Learning Human Actions Semantics in Virtual Reality for a Better Human-Robot Collaboration

2022 — Publication at Robotics Computer Integrated Manufacturing Journal
Title: Workflow modelling for human-robot collaborative assembly operations

2021 — Publication at ICAR 2021 - Ljubljana
Title: Neural networks based human intent prediction for collaborative robotics applications.

2020 — Publication at IROS 2020 and RA-L journal
Title: Combining speed and separation monitoring with power and force limiting for safe collaborative robotics applications.

2021-2022 — Teaching and Lab. assistant for Automatic Control course
I took part as Teaching and Lab. Assistant for the course Automatic Control. The course deals with: basic control such as Regulator syntheses (PID) both continuous and discrete, advanced control techniques (poles placement and LQ) and robotics motion planning.

2022-2023 — Teaching and Lab. assistant for Automatic Control course

Achievements

2020 — Attended the course of Collaborative Robotics in collaboration between Experis Group and Universal Robots.

2018 — Merit scholarship for average above 29/30.

2015 — IELTS exams: 6.5.