Alessandro Carfi

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RESEARCH INTERESTS	In my last year of the Master I have developed an interest toward research in the human robot interaction (HRI) field that led me to apply for a PhD position in Genoa, Italy. Currently my research is focused in applying machine learning techniques to improve HRI in different contexts. I have designed and developed a system based on Recurrent Neural Networks for gesture recognition and tested both in an Ambient Assisted Living application and in a cooperative manufacturing context. In this second scenario I have studied kinesthetic teaching and started exploring possible approaches to increase its efficacy. I am eager to share and discuss ideas for explanding and applying the practical knowledge I have acquired onto new and different fields.
EXPERIENCE	
2016-present	Università degli Studi di Genova Postdoctoral Researcher
Project	InDex: Robot In-hand Dexterous manipulation by extracting data from human ma- nipulation of objects to improve robotic autonomy and dexterity.
Supervisor	Fulvio Mastrogiovanni
<u>TEACHING</u> 2019 - present	Computer Programming Basics - Lecturer (BSc in Chemical Engineering - Università degli Studi di Genova)
2020 - present	Computer Programming Basics - Lecturer (BSc in Mechanical Engineering - Università degli Studi di Genova)
2016 - 2019	Computer Programming Basics - Teaching Assistant (BSc in Computer Engineering - Università degli Studi di Genova)

2018 - 2019	Embedded Systems Programming - Teaching Assistant (MSc in Mechatronics Engineering - University Campus G. Marconi)
2018 - 2019	Embedded System Programming - Lecturer (European Master on Advanced Robotics - Warsaw University of Technology)
EDUCATION	
2016-2020	Università degli Studi di Genova PHD, Bioengineering and Robotics
Supervisor	Fulvio Mastrogiovanni
Thesis Title	On the role of gestures in human-robot interaction
2014-2016	Ecole Centrale de Nantes - Università degli Studi di Genova Master Degree in Robotics Engineering, European Master on Advanced RObotics, EMARO
Description	EMARO is a double degree master program conducted by Ecole Centrale de Nantes (France), Warsaw University of Technology (Poland), the University of Genoa (Italy) and Jaume I University (Spain). The master program is characterized by lectures on Mathematical Modeling, Control Engineering, Computer Engineering and Mechanical Design. (master-emaro.ec-nantes.fr)
Thesis Title	A study of Human-Robot handover and influence of item physical quality.
Supervisors	Fulvio Mastrogiovanni and Nak Young Chong.
Collaboration	The thesis was held in collaboration with the Japan Advanced Insitute of Sicence and Technology (Ishikawa, Japan) where I have spent 5 months.
2011-2014	Università degli Studi di Genova Bachelor Degree in Computer Engineering
Thesis Title	Development of an Android application for geotracking,
Supervisor	Armando Tachella
<u>COMPUTING</u> <u>AND OTHER</u> <u>SKILLS</u>	 Applications: Matlab, Office, LATEX. Programming Languages: Python, C++, C, Java, HTML. Operating Systems: Windows, Unix. Languages: Good English level, Italian mother tongue and speak basic conversational French.

PUBLICATIONS

L. Lastrico, A. Carfi, A. Vignolo, A. Sciutti, F. Mastrogiovanni and F. Rea "Careful with That! Observation of Human Movements to Estimate Objects Properties 13th International Workshop Human-Friendly Robotics, 2020

M. Ruzzon, A. Carfi, T. Ishikawa, F. Mastrogiovanni and T Murakami "A multisensory dataset for the activities of daily living" Data in Brief, 2020.

A. Carfi, J. Villalobos, E. Coronado, B. Bruno and F. Mastrogiovanni, "Can humaninspired learning behaviour facilitate human-robot interaction?" International Journal of Social Robotics, 2018.

A. Carfi, F. Foglino, B. Bruno and F. Mastrogiovanni, "A multi-sensor dataset of human-human handover" Data in Brief, 2018.

L. Buoncompagni, A. Carfi and F. Mastrogiovanni, "A Software Architecture for Multimodal Semantic Perception Fusion" in 5th Italian Workshop on Artificial Intelligence and Robotics (AIRO 2018), Trento, Italy, November, 2018.

A. Carfi, C. Motolese, B. Bruno and F. Mastrogiovanni, "Online Human Gesture Recognition using Recurrent Neural Networks and Wearable Sensors" in Proceeding of the 2018 IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2018), Nanjing, China, August, 2018.

J. Villalobos, E. Coronado, A. Carfi, B. Bruno and F. Mastrogiovanni, "Is Kinesthetic Teaching What Smart Factories Really Need?" in 4th Italian Workshop on Artificial Intelligence and Robotics (AIRO 2017), Bari, Italy, November, 2017.

REFERENCES I am happy to supply these on request