

Jonathan Cacace

Date of Birth: 13-12-1987 E-mail: jonathan.cacace[at]gmail[dot]com Homepage: http://wpage.unina.it/jonathan.cacace Tel.: (+39) 08176-83875, (+39) 345 3338141 Github page: https://github.com/jocacace Occupation field: Assistant professor in robotics

SKETCH BIO

Jonathan Cacace was born in Naples, Italy, on December 13, 1987. He received his Master's degree in computer science from the University of Naples Federico II. He completed the PhD degree in Information and Automation Engineering at the Department of Electrical Engineering and Information Technology (DIETI) in the same institution. Currently, he is assistant professor in Robotics for the automation engineering degree.

CURRENT POSITION

Assistant professor at University of Naples Federico II.

WORK EXPERIENCE

Sept 2021 - Curr	Assistant professor at University of Naples Federico II, department of Information Technology and Electrical Engineering, Naples (Italy). Assistant professor in robotics. Lecturer of Robotics Lab course for automation engineering degree.	
May 2019 - Sept 2021	Post-Doc at PRISMA Lab, department of Information Technology and Electrical Engineering, Naples (Italy). Researcher and developer in Robotics.	
Jul 2020 - Feb 2021	Technical mentor at CREATE consortium [remote] Technical mentor supporting research project funded in DIH square project.	
Feb. 2019 - May 2019	Software Developer at ASLATECH, Bologna (Italy) Researcher and developer in Robotics. Topics: Precision agriculture, Search & Rescue in hazardous environment using drones.	
Feb. 2018 - Feb. 2019	Post-Doc at PRISMA Lab, department of Information Technology and Electrical Engineering, Naples (Italy). Researcher and developer in Robotics. Topics: Human-Robot Interaction and Cooperation, Autonomous action execution of Unmanned Aerial Vehicles, High-level and Low-level action planning and execution.	
Jun. 2017 Apr. 2018	Author at Packt Publishing Author of <i>Mastering ROS for Robotics Programming - Second Edition</i> , published on Febrauary 2018.	
Jul. 2015 Dec. 2015	Technical Reviewer at Packt Publishing Technical reviewer for the book <i>Mastering ROS for</i> <i>Robotics Programming</i> by Joseph Lentin.	
Mar. 2016 Gen. 2018	Consultant at <u>CREATE</u> consortium, Naples (Italy). Researcher and developer in Robotics. Topics: Human-Robot Interaction and Cooperation, Autonomous action execution of Unmanned Aerial Vehicles, High-level and Low-level action planning and execution.	
2016	Consultant at <u>CREATE</u> consortium, Naples (Italy). Feasibility study for a visual inspection system suitable to be mounted on a VToL UAV. Customer: GE Oil & Gas.	

Gen. 2014 Feb. 2016	Fellowship at PRISMA Lab, department of Information Technology and Electrical Engineering, Naples (Italy). Human-Robot interaction and control with multiple UAVs to perform Search & Rescue operation in mountains.
Jul. 2013 Dec. 2013	Consultant at CREATE consortium, Naples (Italy). Robotics developer in Human-Robot interaction and task planning and execution applications with a humanoid robot.
May. 2013	Consultant at CREATE consortium, Naples (Italy). Robotics developer for Search & Rescue with UAV applications.

EDUCATION

May. 2013	Ph.D degree in Computer Science and Automation Engineering at Università degli	
Jun. 2016	Studi di Napoli Federico II, department of Information Technology and Electrical Engineering.	
	Dissertation: A Control Architecture for Unmanned Aerial Vehicles Operating in Human-Robot	
	Team for Service Robotic Tasks. Advisor: prof. Vincenzo Lippiello.	
Sept. 2010	MSc in Computer Science (Magna cum laude) at Università degli Studi di Napoli Federico	
Oct. 2012 II, School of Mathematical, Physical and Natural Science.		
	Dissertation: A Mixed-Initiative Control System for an Aerial Service Vehicle. Advisor: dr.	
	Alberto Finzi.	
Sep. 2007	7 BSc in Computer Science at Università degli Studi di Napoli Federico II, School of	
Feb. 2010	Mathematical, Physical and Natural Science.	
	Dissertation: An interactive control system for batch jobs in a grid environment: g-shell.	
	Advisor: dr. Silvio Pardi.	

TEACHING EXPERIENCES

- Robotics Lab, spring semester: University of Naples Federico II. Master's Course in Automation Engineering (Second year, second semester)
- Robotics and Automation technologies: University of Naples Federico II. Master's Course Science and Technology in Agriculture and Animal Husbandry (Second year, first semester).

COMMITTEES

- Reviewer for international conferences: IEEE International Conference on Robotics and Automation, IEEE/RSJ International Conference on Intelligent Robots and System, European Control Conference, IEEE International Symposium on Robot and Human Interactive Communication.
- Reviewer for international journals: IEEE Robotics and Automation Magazine, IEEE Robotics and Automation Letters, Intelligent Service Robotics.
- Associate Editor: Associate Editor for IEEE International Conference on Robotics and Automation 2020, 2021 and 2022.
- Associate Editor: Associate editor for IEEE Robotics and Automation Letters journal
- Local Chair, 10th International Workshop on Human-Friendly Robotics 2017, to be held in Napoli, Italy, November 6-7, 2017.
- PC member for:

- Robot Operating System (ROS): The Complete Reference (Volume 6), Editors: Anis Koubaa published by Springer
- PlanRob 2020: Planning and Robotics workshop is proposed in synergy with International Conference on Automated Planning and Scheduling (ICAPS) 2020 tracks
- HFR 2019: Human-Friendly Robotics 2019 organized by the University of Modena and Reggio Emilia.
- HFR 2020: Human-Friendly Robotics 2020 organized by University of Innsbruck, Innsbruck, Austria

AWARDS

- Second prize at First "Robotics Made in Italy" Video Contest IEEE Robotics & Automation Society Italian Chapter: "Making a pizza: a robotic approach", Jonathan Cacace and Mario Selvaggio.
- Maker of Merit at Maker at Maker Fair 2017, Fiera di Roma, Roma.

INVITED SPEAKER

• Pint of Science 2017, Naples, Italy. Talk (in italian): "Al vostro servizio: Le nuove frontiere della robotica"

SKILLS

Programming Languages	C/C++, Python, $C#$, Latex.
Scripting Languages	Bash, MATLAB, Perl.
Operating System	GNU/Linux, Windows, Qnx, Android.
Development Environment	Robot Operating System (ROS), Boost, CMake, .NET framework.
Embedded Hardware Platforms	Mbed, Arduino, Pixhawk and Ardupilot Mega autopilot.
Robotic Platorms	Kuka Lightweight and Schunk Powerball.
Main competences	Intelligent Systems, Robotics, Aerial Robotics,
_	Robotic Manipulation, Automatic Control.

SPOKEN LANGUAGES

- *Italian*: Mother tongue.
- English: Excellent knowledge in speaking and writing.

LAST UPDATE

09 January 2022.