

JOB APPLIED FOR POSITION
PREFERRED JOB
STUDIES APPLIED FOR
PERSONAL STATEMENT

Mechanical Engineer, Researcher in Mechanics and Mechanism Theory, Robotics

WORK EXPERIENCE

Nov 2018, current **Assistant Professor**
Dept. of Information Engineering and Mathematical Science, University of Siena, Siena, Italy Scientific sector SSD ING---IND/13, (Mechanics)

Sept 2015, 2019 **Visiting Scientist**
Dept. of Advanced Robotics, Istituto Italiano di Tecnologia, Genoa, Italy

Jan 2008 – Nov 2018 **Assistant Professor**
Dept. of Information Engineering and Mathematical Science, University of Siena, Siena, Italy Scientific sector SSD ING---IND/13, (Mechanics)

Jan 2003, Dec 2007 **Researcher**
University of Firenze, Department of Energy Engineering "Sergio Stecco"
Researcher of Mechanical Engineering

EDUCATION AND TRAINING

Mar 2003 **PhD in Applied Mechanics**
University of Bologna, Bologna, Italy

Sept 1999 **Master Degree in Mechanical Engineering**
University of Firenze, Firenze, Italy

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Projects

- 2010-2012 Scientific coordinator of the contract between the University of Florence, Department of Energy Engineering, and the University of Siena, Department of Information Engineering and Mathematics for the study of localization and speed estimation of railway vehicles. Contribution for the University of Siena: euro 70000.
- 2012-2016 Unit coordinator for the project MODELACT, founded by the Italian Ministry of Education, Universities and Research (MIUR) Code RBFR12C608. Contribution for the University of Siena: euro 120.979 (from MIUR) + euro 31148 (co-founding).

- 2015-2016 Scientific coordinator of the contract between the University of Siena, Department of Information Engineering and Mathematics, and MerMec company, for the study of localization and speed estimation of railway vehicles. Contribution for the University of Siena: euro 25000.
- 2016 – 2017: project “Robotica nelle scuole ” (Robotics at school) founded by Consiglio Regionale, Regione Toscana, consisting in organising seminars, lectures, lab activities with high school students, with the goal of presenting robotics challenges. Role: coordinator of the University of Siena Unit.
- 2018-2020 Directorate-General Communications Networks, Content and Technology Digital Industry Robotics and Artificial Intelligence INBOTS CSA H2020 Project - Inclusive Robotics for a Better Society, Grant Agreement n. 780073. Role: coordinator of the UNISI team.

2021-2023 Erasmus+ BeReady project. Role: coordinator of the UNISI team.

Research participation to the following projects

- Seventh Framework Program ECHORD European Clearing House for open Robotics
Development <http://www.echord.info/wikis/home-wiki/home> 01/01/2009 - 30/06/2012;
- Seventh Framework Program THE The Hand Embodied
<http://www.thehandembodied.eu> 01/03/2010 - 28/02/2014;
- Seventh Framework Program WEARHAP Wearable Haptics for Humans and Robots 01/03/2013 - 28/02/2017,
- Horizon 2020 Program “SOMA”: SOft MAnipulation Grant No. H2020- ICT-645599,
- Horizon 2020 Program “SoftPro”.

Presentations

13/12/2014: Participation to the TEDx Arezzo conference, presenting a talk entitled “Io e i Robot”.
6/6/2016 MODELACT Conference Action, Language and Cognition, Roma, Presentation entitled “Mapping human actions to robotic systems, a task based approach”.
27-28/2/2017: Participation to Research to Business, Firenze. “ Presentation: Robot indossabili per applicazioni di Human Augmentation.”
9/2/2018 “Robotica e futuro: fra didattica innovazione e lavoro” Seminario di presentazione della Rete Scolastica Toscana per la Robotica Educativa ROBOTOSCANA, San Giovanni Valdarno, FI. Presentation entitled: “Esperienze di collaborazione tra Università e Scuola Superiore: le attività di robotica.”
14/04/2018 Conference entitled: Robotica e Intelligenza Artificiale: l’impatto dell’infosfera sulla vita dell’uomo. Presentation: “Robot indossabili per aptica e human augmentation: progettazione, controllo e applicazioni”

Acknowledgements May 2019: The paper F. Vigni, E. Knoop, D. Prattichizzo, M. Malvezzi. The Role of Closed-Loop Hand Control in Handshaking Interactions. IEEE Robotics and Automation Letters, 4(2):878-885, 2019 was finalist for the Best Paper Award on Human-Robot Interaction at the conference IEEE International Conference on Robotics and Automation - ICRA 2019.

September 2019: the paper “The Closure signature: a new approach to model soft robotic hand” di Maria Pozzi, Gionata Salvietti, Joao Bimbo, Monica Malvezzi e Domenico was awarded with the best presentation award at the first I-RIM 3D conference in Rome.

June 2017: the paper “Towards wearability in fingertip haptics: a 3-DoF wearable device for cutaneous force feedback.” by Domenico Prattichizzo, Francesco Chinello, Claudio Pacchierotti, Monica Malvezzi. published on IEEE Transactions on Haptics, 6(4):506-516, 2013 has been acknowledged as the second most downloaded paper on the IEEE Transactions on Haptics journal by the EIC Lynette Jones during the World Haptics Conference.

December 2016: The demo “A novel 3RRS wearable fingertip cutaneous device for virtual interaction” (F. Chinello, C. Pacchierotti, M. Malvezzi, D. Prattichizzo) won the AsiaHaptics Silver Award.

September 2015: The John F Alcock Memorial Prize to the paper "A localization algorithm for railway vehicles based on sensor fusion between tachometers and inertial measurement units" (M.Malvezzi, G. Vettori, B. Allotta, L. Pugi, A. Ridolfi, A. Rindi).

Conference and Workshops May, 2016 Organizer of the Workshop on “Exploiting contact and dynamics in manipulation”, International Conference on Robotics and Automation, ICRA 2016, Stockholm, Sweden, 16 May 2016, http://ecexploit_ws_icra2016.diism.unisi.it

June, 2016, Organizer of the First MODELACT Conference Action, Language and Cognition 6-7 June 2016 / Rome, P.le Aldo Moro 7 – Consiglio Nazionale delle Ricerche.

October, 2016, Organizer of the workshop “Evaluation and Benchmarking of Underactuated and Soft Robotic Hands” at the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) - October 9–14, 2016, Daejeon, Korea.

PUBLICATIONS

Google Scholar Page <https://scholar.google.com/citations?user=MONWWgcAAAAJ&hl=it>