DOMENICO MURA

Automation & Robotic Engineer

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EXPERIENCE

PhD Fellow

University of Pisa, Department of Information Engineering

November 2018 – Ongoing | Pisa, PI

- PhD Course in Information Engineering
- Research Field: Robotics and Automation

Fellow

Italian Institute of Technology

January 2018 – October 2018 | Genoa, GE

- Research line: Soft Robotics for Human Cooperation and Rehabilitation
- Cooperative and Continuative Collaboration

Scientific Collaborator

Research Center E. Piaggio

October 2017 – December 2017 | Pisa, PI

- Team working on my master thesis device improvements and on the robotic hand pose reconstruction problem

PUBLICATIONS

Journal Articles

- Mura, Domenico, Espen Knoop, et al. (2020). "On the role of stiffness and synchronization in human–robot handshaking". In: *The International Journal of Robotics Research*.
- Mura, Domenico, Cosimo Della Santina, et al. (2019). "Exploiting Adaptability in Soft Feet for Sensing Contact Forces". In: *IEEE Robotics and Automation Letters* 5.2, pp. 391–398.
- Mura, Domenico, Manuel Barbarossa, et al. (2018). "A Soft Modular End Effector for Underwater Manipulation: A Gentle, Adaptable Grasp for the Ocean Depths". In: *IEEE Robotics & Automation Magazine* 25.4, pp. 45–56.

PROJECTS

Socio-Physical Interaction Skills for Cooperative Human-Robot Systems in Agile Production (SOPHIA)

1/12/19 – 30/11/23

- SOPHIA has received funding from the European Union's Horizon 2020 Research and Innovation Programme (H2020-ICT-2019-2/2019-2023) under grant agreement No. 871237
- Project site: https://project-sophia.eu/

SUMMARY

Currently a PhD Fellow in Information Engineering, graduated in Automation and Robotic Engineering with a master thesis on soft robotic manipulation.
Robotics, and its impact on our life and health, has always fascinated me, even when I was a biomedical engineering student. My current research interests consist in sensorization of soft robotic devices and in underwater manipulation for archaeological/biological tasks.

LANGUAGES

Italian
English

STRENGTHS

Matlab/Simulink | C/C++ | LaTeX | Model Based Design | ROS | PTC Creo CAD | Rapid Prototyping

Communication/Presentation Skills | Positive Attitude | Love of Learning | Creative Problem Solving | Teamwork

EDUCATION

M.Sc. in Robotic and Automation Engineering

Università di Pisa

2014 – 2017 | 110/110

B.Sc. in Biomedical Engineering

Università di Pisa

2007 – 2014 | 90/110

Classical High School Diploma

L. Cl. Giorgio Asproni

2001 – 2006 | 94/100