

Giorgio Carpino



Born in Naples (Italy) on 05/07/1983

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Current Position: Post Doc.

Supervisor: Marco Borra

Affiliation:

Section Grant&Innovation Office, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Department of Engineering, Università degli Studi Federico II di Napoli, Naples, Italy	B.Sc.	2001-2005	Biomedical Engineering
Department of Engineering, Università degli Studi Federico II di Napoli, Naples, Italy	M.Sc.	2006-2008	Biomedical Engineering
Department of Engineering, Università Campus Bio-Medico di Roma, Rome, Italy	Ph.D.	2009-2011	Biomedical Engineering
Department of Engineering, Università Campus Bio-Medico di Roma, Rome, Italy	Postdoc	2012-2018	Biomedical Engineering

Appointments and awards

2008 – Professional Engineering license in Information Engineering @ National Engineering Register - Section of Naples (Italy)

Other matters relevant to scientific career

Programme Committee Member of: UCAmI&IWAAL 2014, UCAmI 2015, IWAAL 2015 & AmIHEALTH 2015, UCAmI 2016.

Peer reviewer for the journals: Actuators, IEEE Transactions on Robotics, Sensors, Robotica, Applied Bionics and Biomechanics, International Journal of Advanced Robotic Systems, Medical Engineering and Physics.

Peer reviewer for the international conferences: IEEE BIOROB 2016, IEEE EMBS 2009, IEEE/RSJ IROS 2009, IEEE ROMAN 2009, CIS-RAM 2010, IEEE BIOROB 2010, IEEE ICRA 2011, IEEE IROS 2011, ICINCO 2012, IEEE BIOROB 2012, IEEE EMBC 2012, IEEE EMBC 2013, IEEE IROS 2013, UCAmI & IWAAL 2014, IFAC WC 2014, MBEC 2014, UCAmI 2015, IWAAL 2015 & AmIHEALTH 2015, IEEE BioRob 2016, UCAmI 2017, IEEE BIOROB 2018, IFAC CHPS 2018.

Member of the Local Committee for the organisation of the following conferences: OCTOPUS-EVRYON-WSK-TNg Summer School 2012, IEEE BIOROB 2012.

Publications

Author of 8 publications on ISI-journals and 1 book chapters

List of publications of the last 10 years:

Journal Papers

Carpino G, Pezzola A, Urbano M, Guglielmelli E. (2018). Assessing Costs and Effectiveness in Robot-mediated Lower Limbs Rehabilitation: a Meta-analysis and State of the Art. *Journal of Healthcare Engineering*, 1-9

Giannatiempo S, Carpino G, Petitti T, Zobel BB, Grasso RF, Guglielmelli E. (2018). Efficacy and economic impact evaluation of a navigation system for assisted lung biopsies. *Healthcare Technology Letters*, 5: 49-53

Simonetti D, Zollo L, Papaleo E, Carpino G, Guglielmelli E. (2016). Multimodal adaptive interfaces for 3D robot-mediated upper limb neuro-rehabilitation: an overview of bio-cooperative systems. *Robotics and Autonomous Systems*, 85: 62-72

Accoto D, Sergi F, Tagliamonte NL, Carpino G, Sudano A, Guglielmelli E. (2014). Robomorphism: A Nonanthropomorphic Wearable Robot. *IEEE Robotics and Automation Magazine*, 45-55

Accoto D, Carpino G, Sergi F, Tagliamonte NL, Guglielmelli E. (2013). Design and Characterization of a Novel High-Power Series Elastic Actuator for a Lower Limbs Robotic Orthosis. *International Journal of Advanced Robotic Systems*, 10:359

Tagliamonte NL, Sergi F, Accoto D, Carpino G, Guglielmelli E. (2012). Double actuation architectures for rendering variable impedance in compliant robots: A review. *Mechatronics*, 22:1187-1203

Carpino G, Accoto D, Sergi F, Tagliamonte NL, Guglielmelli E. (2012). A novel compact torsional spring for Series Elastic Actuators for assistive wearable robots. *ASME Journal of Mechanical Design*, 134:121002

Sergi F, Accoto D, Tagliamonte NL, Carpino G, Guglielmelli E. (2011). A systematic graph-based method for the kinematic synthesis of non-anthropomorphic wearable robots for the lower limbs. *Frontiers of Mechanical Engineering*, 6:61-70

Book chapters

Accoto D, Sergi F, Tagliamonte NL, Carpino G, Guglielmelli E. (2014). A Human Augmentation Approach to Gait Restoration. *In: Artemiadis P, Eds. Springer, Neuro-robotics: From brain machine interfaces to rehabilitation robotics; 2014. pp. 345-377*