

FP7 ICT-2013.9.1 Future and Emerging Technologies FET-Open Coordination Action



SUSTAINABLE MANUFACTURING THROUGH ADVANCED ROBOTICS TRAINING IN EUROPE

FP7 PEOPLE-2013-ITN

Soft Roboties Week

April 13-17, 2015 Livorno, Italy

Program













Program of the week

Monday 13, 2015

Time	Lecture/activity		Location
9:00 – 9:30	Registration (poster and exhibition set-up)		Grand Hotel Palazzo Reception desk at the entrance
9:30 – 10:15	Cecilia Laschi The BioRobotics Institute, RoboSoft Coordinator	Welcome and introductory lecture	Grand Hotel Palazzo Sala Marconi
10:15 – 11:00	Fumiya lida ETH Zurich	Designing and building soft robots	Grand Hotel Palazzo Sala Marconi
11:00 – 11:30	Coffee break (poster and exhibition set-up)		Grand Hotel Palazzo Sala Marconi and Sala Fattori
11:30 – 12:15	Espen Knoop University of Bristol	Electroactive Polymers - soft actuators for soft robots	Grand Hotel Palazzo Sala Marconi
12:15 – 13:00	Matteo Cianchetti The BioRobotics Institute	SMA, Jamming, Pneumatic technologies - soft actuators for soft robots	Grand Hotel Palazzo Sala Marconi
13:00 – 14:30	Lunch break		Walking transfer to the Marine Robotics Centre and free lunch
	Starts of hands-on sessions of students working groups		Marine Robotics Centre
14:30 – 15:30	Espen Knoop University of Bristol	Dielectric Elastomer Actuators	Marine Robotics Centre
15:30 – 16:30	Matteo Cianchetti The BioRobotics Institute	SMA, Jamming, Pneumatic technologies	Marine Robotics Centre
16:30 – 18:30	Students working groups		Marine Robotics Centre
19:00 – 20:30	Welcome cocktail		Baracchina II Delfino

Tuesday 14, 2015

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Time	Lecture/activity		Location
9:00 – 9:40	Adam Stokes The University of Edinburgh	The Fabrication Challenge in Soft Robotics and Integrated Soft Systems	Grand Hotel Palazzo Sala Marconi
9:40 – 10:20	Christian Duriez Institut National de Recherche en Informatique et Automatique	From Soft-Tissue to Soft-Robot: Modeling deformations in real-time using SOFA	Grand Hotel Palazzo Sala Marconi
10:20 - 11:00	Frédéric Boyer Ecole des Mines de Nantes	Bio-inspired Locomotion Dynamic Modelling: from discrete to continuous and soft systems	Grand Hotel Palazzo Sala Marconi
11:00 – 11:30	Coffee break + poster & exhibition		Grand Hotel Palazzo Sala Marconi and Sala Fattori
11:30 – 12:10	Antonio De Simone SISSA - International School for Advanced Studies, Trieste, Italy	Some case studies in the modeling of bio-inspired motility: euglenoid movement and snake-like undulatory locomotion	Grand Hotel Palazzo Sala Marconi
12:10 – 12:50	Francesco Giorgio-Serchi The BioRobotics Institute	Flexibility: Nature's secret to aquatic and aerial locomotion. A lesson learnt for Soft Robotics.	Grand Hotel Palazzo Sala Marconi
12:50 – 14:30	Lunch break		Walking transfer to the Marine Robotics Centre and free lunch
14:30 - 19:00	Students working groups		Marine Robotics Centre

Wednesday 15, 2015

Time	Lecture/activity		Location
9:00 – 9:30	Cecilia Laschi The BioRobotics Institute, RoboSoft Coordinator	Opening of the RoboSoft Plenary Meeting	Grand Hotel Palazzo Sala Marconi
9:30 – 10:15	Joint Talk Rolf Pfeifer (Specially Appointed Professor at Osaka University) & Benny Hochner (The Hebrew University of Jerusalem)	Embodied Intelligence Theory. The embodied organization of the octopus motor control or why the octopus motor system is full of surprises	Grand Hotel Palazzo Sala Marconi
10:15 – 11:00	Ruairi Glynn Interactive Architecture Lab at University College London	Softening Architecture	Grand Hotel Palazzo Sala Marconi
11:00 – 11:30	Coffee break + poster & exhibition		Grand Hotel Palazzo Sala Marconi and Sala Fattori
11:30 – 12:15	Giulia Tancredi Innovative Startups Incubator of Polytechnic of Turin (I3P S.c.p.a.)	From lab to market: seizing the opportunities of soft robotics	Grand Hotel Palazzo Sala Marconi
12:15 – 13:00	Plenary discussion of RoboSoft working groups		Grand Hotel Palazzo Sala Marconi
13:00 – 14:30	Lunch break		Grand Hotel Palazzo Sala Marconi and Sala Fattori
14:30 – 16:30	Parallel session of RoboSoft working groups		Grand Hotel Palazzo Sala Marconi and Salone delle Feste
17:30	Tour "Livorno by boat"		
20:00	Social Dinner		Ristorante L'Ancora

Thursday 16, 2015

Time	Lecture/activity		Location
9:00 – 9:45	Barry Trimmer Tufts University Soft Robotics Editor In-Chief	How will soft technology make better robots?	Grand Hotel Palazzo Sala Marconi
9:45 – 10:30	Paul Beardsley and Moritz Bächer Disney Research Zurich (DRZ)	Intro to DRZ and Intentions in Soft Robotics	Grand Hotel Palazzo Sala Marconi
10:30 – 12:00	Parallel session of RoboSoft working groups (coffee served)		Grand Hotel Palazzo Sala Marconi and Salone delle Feste
12:00 – 12:45	Wrap-up of RoboSoft working groups and plenary discussion		Grand Hotel Palazzo Sala Marconi
12:45 – 13:00	Closing of the RoboSoft Plenary Meeting and announcements		Grand Hotel Palazzo Sala Marconi
13:00 – 14:30	Lunch break		Free lunch
14:30 - 19:00	Students working groups		Marine Robotics Centre

Friday 17, 2015

Time	Lecture/activity		Location
9:00 – 9:15	Cecilia Laschi The BioRobotics Institute, RoboSoft Coordinator	Introduction	Grand Hotel Palazzo Sala Marconi
9:15 – 11:00	Students teasers on the working group projects		Grand Hotel Palazzo Sala Marconi
11:00 - 12:00	Soft Robots Competition		Marine Robotics Centre
12:00 – 13:00	Award and closing		Grand Hotel Palazzo Sala Marconi

Organizers

Cecilia Laschi, RoboSoft Coordinator, The BioRobotics Institute, Scuola Superiore Sant'Anna, Italy **Samia Nefti-Meziani**, SMART-E Coordinator, University of Salford, UK

Fumiya Iida, ETH Zurich, Switzerland

Jonathan Rossiter, University of Bristol, UK

Helmut Hauser, University of Bristol, UK

Matteo Cianchetti, The BioRobotics Institute, Scuola Superiore Sant'Anna, Italy

Laura Margheri, The BioRobotics Institute, Scuola Superiore Sant'Anna, Italy

On-site contact persons

Registration: Serena Tricarico (serena.tricarico@sssup.it) and Mariangela Manti

(mariangela.manti@sssup.it)

Poster and exhibition: Marcello Calisti (marcello.calisti@sssup.it) and Francesco Giorgio-Serchi

(f.serchi@sssup.it)

Hands-on sessions: Matteo Cianchetti (matteo.cianchetti@sssup.it)

General management: Laura Margheri (laura.margheri@sssup.it, +39 347 1329605)

Sponsors

RoboSoft: A Coordination Action for Soft Robotics

FP7 ICT-2013.9.1 Future and Emerging Technologies FET-Open, contract # 619319

SMART-E: Sustainable Manufacturing through Advanced Robotics Training in Europe

FP7-PEOPLE-2013-ITN Initial Training Networks, contract # 608022

Soft Robotics Journal (SoRo, http://www.liebertpub.com/overview/soft-robotics/616/)

Meeting attendees will benefit of free online access for 30 days

Soft Robotics Week website

http://www.robosoftca.eu/information/events/soft-robotics-week















