

CloPeMa organises workshop at euRobotics Forum 2014:

Dexterous Robotic Manipulation Systems for Clothing and Flexible Materials

Where: euRobotics Forum 2014 (Rovereto, Italy held during 12th – 14th March)

When: 13 March, 13:30-18:00 (Track 4)

Overview: International experts will present the current state-of-the-art in systems for robotic manipulation of flexible materials. The workshop will address the challenges found in sensing, perception, cognition, planning and handling, as well as manipulator design. Expertise and capability in dexterous manipulation of flexible materials being of critical importance to EU manufacturing robotics, this workshop is intended to serve as a forum to identify key unsolved problems in this field. We also intend this workshop to act as a catalyst for forming new collaborations targeting Horizon 2020 robotics funding.

Follow links these links for details of the [euRobotics Forum](#), [full programme](#) and [registration](#).

Workshop Programme:

13.30 **Introduction by the Chair:** Dr W. Paul Cockshott, University of Glasgow, UK

13.50 Presentations I

- ***The special features of the Clopema hand:*** Dr Matteo Zoppi/Prof. Giorgio Cannata, University of Genoa, Italy
- ***Autonomous unfolding of garments:*** Dr Sotiris Malassiotis, University of Thessaloniki, Greece
- ***A unified computational framework for prosthetic manipulation:*** Prof. Hongai Liu, University of Portsmouth, UK
- ***Understanding, dual-arm folding of a piece of garment on the CloPeMa test bed:*** Prof. Vaclav Hlavac, Czech Technical University, Czech Republic

15:30 **Coffee & Networking**

16:00 Presentations II

- ***Mechanisms of the human hand, and how to emulate them:*** Dr Nick Hockings, University of Bath, UK
- ***Algorithms for nonrigid object reconstruction and recognition:*** Dr Francesc Moreno, Institut de Robòtica i Informàtica Industrial, Spain
- ***Active Binocular Range Sensing and Interpretation for Clothing Manipulation:*** Dr Gerardo Aragon-Camarasa, University of Glasgow, UK
- ***The Shadow Dexterous Hand:*** Rich Walker, The Shadow Robot Company, UK

17:40 **Discussion**

18:00 **Close**