

Robotics Research Jam Sessions 7th edition

June 11 and 12, 2018
School of Engineering, University of Pisa

PROGRAMME

June 11 – Polo A, Aula Magna “U.Dini”

14.00 Welcome

Antonio Bicchi, Università di Pisa, Pisa, Italy, and Istituto Italiano di Tecnologia, Genoa, Italy

14.15 Introduction

Matteo Bianchi, Università di Pisa, Pisa, Italy

14.30 Force Feedback for Fingertips

J. Edward Colgate, Northwestern University, Evanston, Illinois, USA

15.00 Wearable Haptics for Humans and Robots

Domenico Prattichizzo, Università degli Studi di Siena, Siena, Italy

15.30 Enhancing Human Performance with Wearable Haptics

Marcia K. O'Malley, Rice University, Houston, Texas, USA

16.00 The research on artificial hands at the BioRobotics Institute

Christian Cipriani, Scuola Superiore Sant'Anna, Pisa, Italy

16.30 Coffee Break

17.00 Adaptive effort allocation principles for dynamic human-robot interaction and collaboration

Arash Ajoudani, Istituto Italiano di Tecnologia, Genoa, Italy

17.30 Robotic interfaces for telepresence and remote presence: from remote inspection to bilateral manipulation

Antonio Frisoli, Scuola Superiore Sant'Anna, Pisa, Italy

18.00 Haptic Communication for physical Human-Robot Interaction (pHRI)

Cagatay Basdogan, Koc University, Istanbul, Turkey

18.30 Hands in the real world, from prosthetics to remote avatars

Manuel G. Catalano, Istituto Italiano di Tecnologia, Genoa, Italy

June 12 – Polo Etruria, Room F3

8.30 Collaborative robots that understand humans

Andrea M. Zanchettin, Politecnico di Milano, Milan, Italy

9.00 Towards semi-autonomy in robotic surgery through force feedback

Fanny Ficuciello, Università di Napoli Federico II, Napoli, Italy

9.30 Tactile Reality

Katherine J. Kuchenbecker, Max Planck Institute for Intelligent Systems, Stuttgart site, Stuttgart, Germany

10.00 The quest for a bionic hand: recent achievements and future perspectives

Silvestro Micera, Scuola Superiore Sant'Anna, Pisa, Italy, EPFL, Lausanne, Switzerland

10.30 Coffee Break

11.00 Wearable haptics for virtual and augmented reality: applications in the entertainment and robotic fields

Claudio Pacchierotti, CNRS-Rennes, Rennes, France

11.30 How physics shapes the messages that are sent to the tactile brain

Vincent Hayward, Sorbonne Université de Paris, Paris, France

12.00 Haptics at Multiple Scales: Design, Mechanics, and Perception

Yon Visell, University of California Santa Barbara, Santa Barbara, California, USA

12.30 Closing and Discussions

Matteo Bianchi and Antonio Bicchi

12.45 Lunch

