

## Program Committee

---

### General Chair

**Rezia Molfino**, Univ. of Genoa, Italy

### Members

**Manuel Armada**, CSIC, Spain

**Arturo Barancelli**, COMAU, Italy

**Massimo Callegari**, Univ. P.M., Italy

**Jian Dai**, King's College London, UK

**Paolo Dario**, Scuola Superiore S.Anna, Italy

**Charlie Duncheon**, Adept Technology, Inc, USA

**Vladimir F. Filaretov**, F.E.T.U. Vladivostok, Russia

**Paolo Fiorini**, University of Verona, Italy

**Toshio Fukuda**, Nagoya University, Japan

**Clement Gosselin**, Laval University, Canada

**Gert Hirzinger**, DLR, Vessling, Germany

**Peter Kopacek**, Vienna Univ. of Tech., Austria

**Konstantinos Kyriakopoulos**, N.T.U.A., Greece

**Ju-Jang Lee**, KAIST, Korea

**Hiroshi Makino**, Yamanashi University, Japan

**Claudio Melchiorri**, University of Bologna, Italy

**Jean Pierre Merlet**, Sophia Antipolis, France

**Rinaldo Michelini**, University of Genoa, Italy

**Giovanni Muscato**, University of Catania, Italy

**Mauro Onori**, Stockolm KTH, Sweden

**Pedro Sanz**, Jaume-I University Castello, Spain

**Bruno Siciliano**, Univ. Federico II Naples, Italy

**Gabor Szekely**, ETH, Switzerland

**Junichi Takeno**, Meiji University, Japan

**Don Vincent**, Robotic Industries Association, USA

**Gurvinder Virk**, University of Leeds, UK

**Yuru Zhang**, Beijing University, China

**Teresa Zielinska**, Warsaw Univ. of Tech., Poland

## Welcome Committee Genova 2004

---

**Giuseppe Casalino**, Director of DIST

**David Corsini**, President of Polo della Robotica

**Rezia Molfino**, President of SIRI

**Giulio Sandini**, Science and Technological Park of Liguria

**Alfredo Squarzoni**, Director of DIMEC

**Gianni Vernazza**, Dean of the Faculty of Engineering

## Organisation Committee

---

**Luca Bruzzone**

**Emanuele Cavallo**

**Francesco Cepolina**

**Emanuela Cepolina**

**Sandro Costo**

**Silvia Frumento**

**Roberto Pani**

**Roberto Razzoli**

**Matteo Zoppi**

**Giorgio Zurlo**



Villa Cambiaso – XVI century

# IMGO4

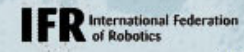
## International Conference on Intelligent Manipulation and Grasping

Genoa - Italy July 1-2, 2004

[www.imgo4.com](http://www.imgo4.com)



University of Genova - Department of  
Mechanics and Machine Design



Robotics & Automation Society

## Preface

---

Nowadays robotics is gaining new and new application fields, becoming pervasive in the daily life. Manipulation skills are very important requirements for the emergent robot applications, both in industry (e.g. handling food, fabrics, leather) and in less structured domains (e.g. cyber-surgery, space, undersea). Intelligent manipulation and grasping systems are a vital part of industrial, service and personal robotics for various applications and environments to advance manufacturing automation, to make safe hazardous operations and to enhance in different ways the living standard. The goal of the conference is to exchange and stimulate research ideas about intelligent manipulation and grasping devices and systems as well as to disseminate knowledge and solutions and promote transfer to industry.

## Venue

---

The conference will take place at Villa Cambiaso, head office of the Faculty of Engineering of the University of Genova. Villa Cambiaso is an historical villa built by Galeazzo Alessi in 15th century on the east side of the center of Genova.

In 2004 Genova will be the European Capital of Culture, serving as a focusing point for several international cultural events. This will give a unique opportunity for the participants to the conference to visit the City and to join other cultural events. Genova is also the centre of the Ligurian Riviera, with the renown tourist resorts of Portofino and Cinque Terre, at an easy reach.

## Topics

---

include but are not limited to:

- Lightweight manipulation
- Dexterous manipulation
- Modular reconfigurable manipulation and grasping devices
- Mechanical architectures
- Parallel and hybrid mechanisms
- Assembly and micro-assembly
- Planning and control architectures
- Haptic interfaces
- Vision and sensory guided manipulation
- Manipulation and grasping for climbing and walking robots
- Biologically inspired manipulation and grasping
- Neurobiology of sensorimotor coordination:
- Interactive emotional robots
- Reality based manipulation and grasping systems modelling and simulation
- Microgrippers
- Manipulation of limp, soft and difficult objects
- Healthcare and medical robots
- Rehabilitation systems
- Domestic robots, domotics
- Humanoids
- Robots for food industry
- Robots in hazardous, space and underwater environments



## Papers Submission

---

Prospective authors are invited to submit full paper in PDF or DOC formats to the conference secretariat, following the guidelines available on the workshop WEB site:

**www.IMG04.com**

Manuscript are peer reviewed by two independent reviewers. Accepted papers must be presented by one of the authors in order to appear in the conference Proceedings with ISBN and CD.

### Important dates

Submission of manuscript: **March 1, 2004**

Notifications of acceptance: **April 20, 2004**

Final manuscript and registration: **May 4, 2004**

## IMG04 Secretariat

---

### Dept. of Mechanics and Machine Design

University of Genoa  
Via Opera Pia 15/A  
16145 Genova, Italy  
+39 010 353 2837 (phone)  
+30 010 353 2298 (fax)  
e-mail: [img04@dimec.unige.it](mailto:img04@dimec.unige.it)  
Web site: [www.img04.com](http://www.img04.com)

### Registration Fees (tax included)

---

	Before 04/05/2004	After
Regular fee	300 €	350 €
Student fee	100 €	130 €