

IEEE/RSJ International Conference









Robotics for Quality of Life and Sustainable Development

# IEEE/RSJ International Conference on Intelligent Robots and Systems

October 7-12, 2012 Vilamoura, Algarve [Portugal]

### Celebrating 25 Years of IROS

#### **General Chairs:**

Anibal T. De Almeida and Urbano Nunes University of Coimbra, Portugal



























## Plenary Talks and Round Table

- Robot & Remote-Controlled Machine Technology for Response Against Accident of Nuclear Power Plants and Toward Their Decommission (Prof. Hajime Asama)
- Surgical Robotics Achievements and Challenges (Prof. Paolo Dario)
- European Robotics Research: Achievements and challenges (Dr. Libor Kral)
- Today's DARPA Robotics Programs: Towards a Symbiosis of Productivity and Protection (Dr. Gill A. Pratt)
- Round Table: Robotics R&D Future Research Directions



































## **IROS 2012 Numbers**

- 1801 papers submitted from 53 Countries,
   806 accepted, to be presented in 11 Parallel sessions
- 60 Video Contributions submitted, 39 selected
- 13 Silver Jubilee Video Contributions, 11 selected
- 49 Workshop and Tutorial proposals, 33 selected













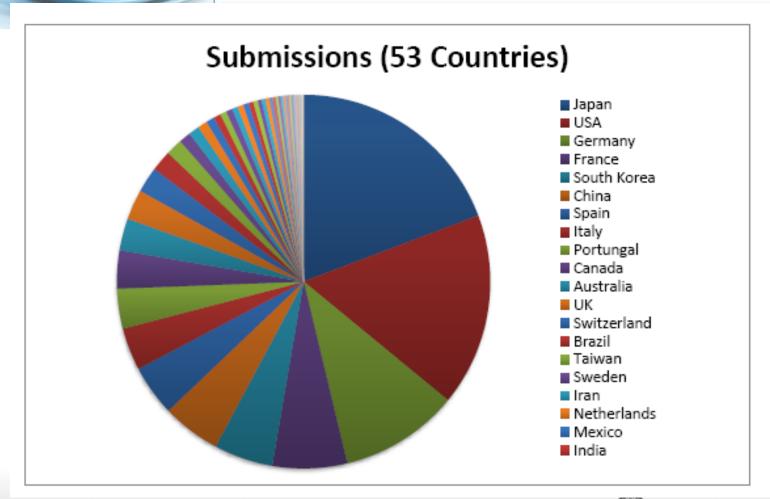








### **Paper Submissions by Country**

















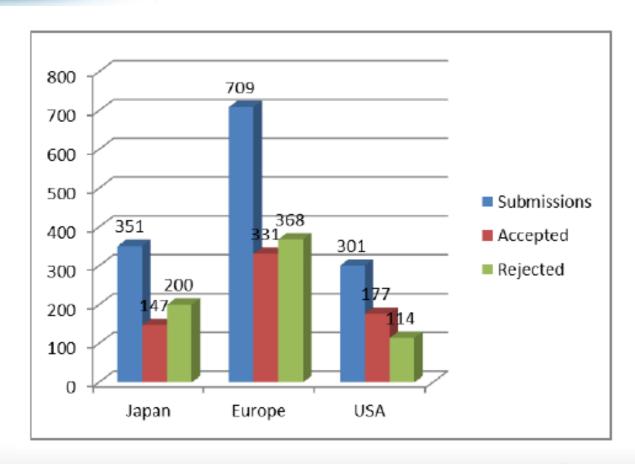






## **Accepted Papers by Region**

75% of paper submissions















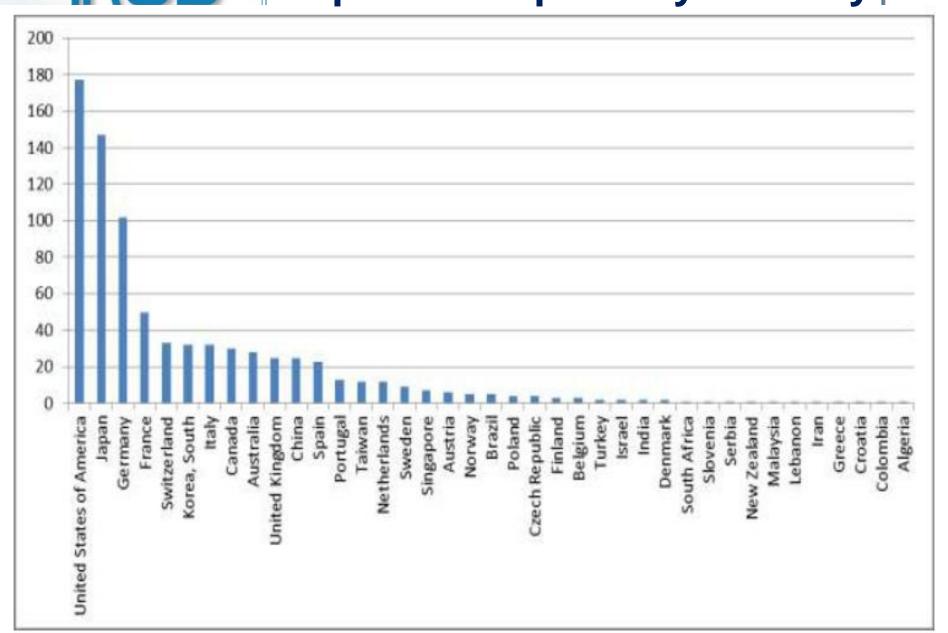




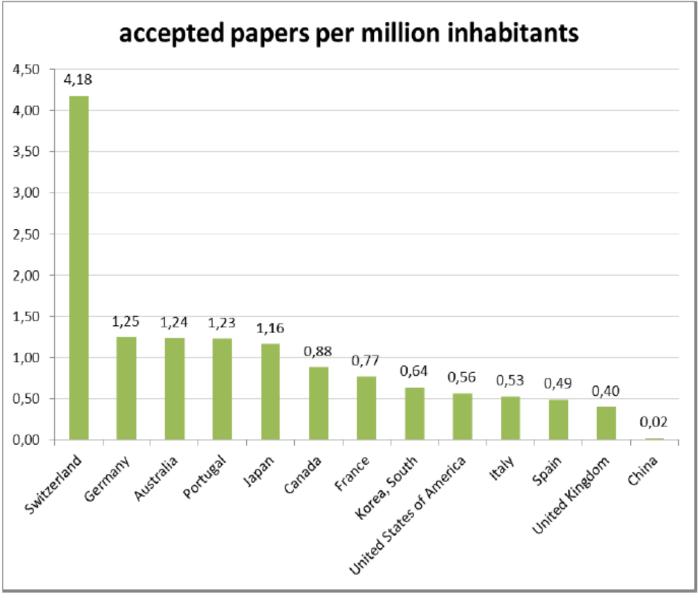




# Papers Accepted by Country



















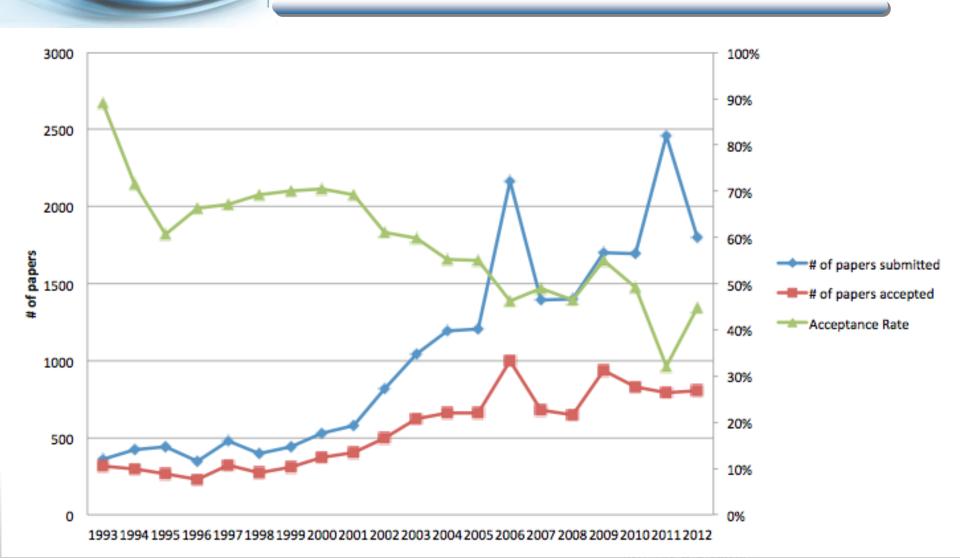






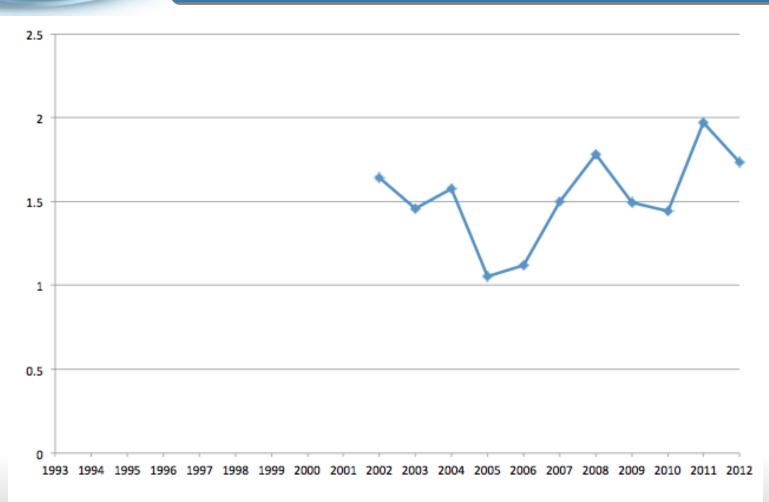


# Number of papers & acceptance rate of IROS





# Attendees rate against accepted papers









# Participant Numbers!

- Over 1535 IROS2012 attendees (including Volunteers, IEEE, Exhibitors)
  - 646 students
- 650 attendees of Workshops and Tutorials
  - 29 Workshops and 2 Tutorials
  - 1 free special invited workshop on EU R&D Program
- 33 exhibitors













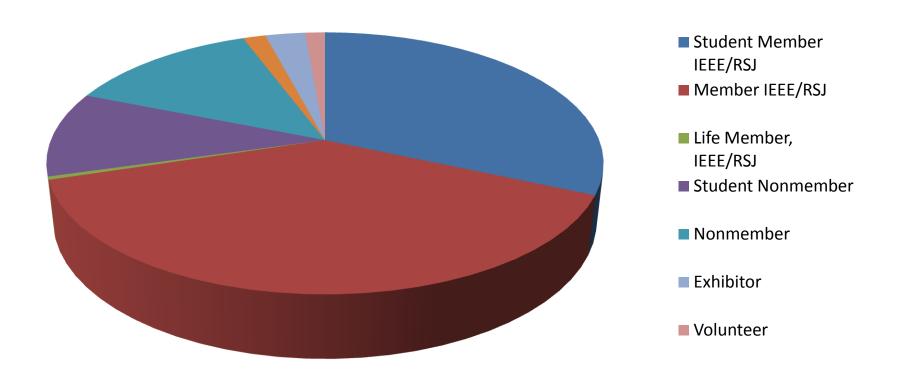








# **1535 Participants**























# Special Features

- Video contributions integrated in regular sessions
  - 3 min video presentations
  - Best video award
- Interactive Displays
  - Browsing booths: IROS info, sessions, full paper contents
  - Interactive sessions (Selected videos)
- Proceedings on your iPad, smartphone or PDA
  - Local network mirror: http://10.1.1.1





















## **Industrial Forum**

#### Key topics discussed:

- Vision of industry leaders about the future of robotics
- Personal robots are seen as a major market change for the near future, but security issues arising from the interaction of robots with common persons may be still an issue.
- The role of open source vs. proprietary software in robotics About 100 attendees























# COMPETITION & EXHIBITIONS

#### 3 teams

- LUHbots, Leibniz University Hannover, Germany
- Team Ephesus, Sabanci University, Turkey
- b-it-bots, Bonn-Rhein-Sieg U. of Applied Sciences, Germany

#### 19 participants

**Goal:** push ahead robotics research through competitions and benchmarking using common challenges\

#### 33 Exhibitors









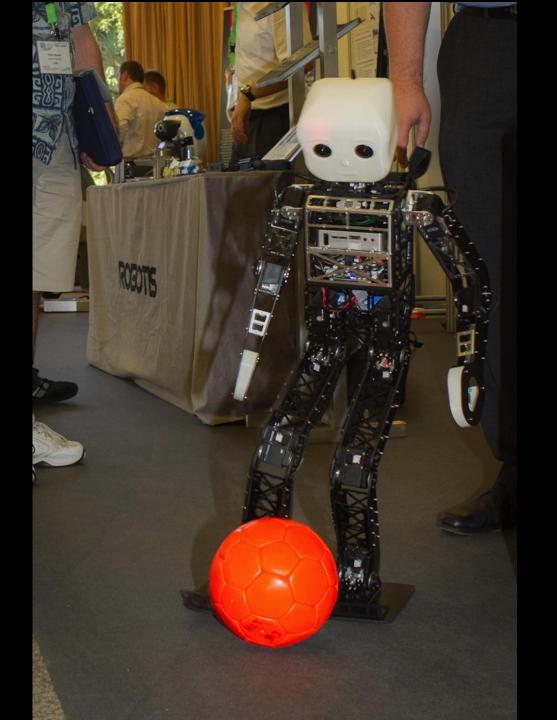




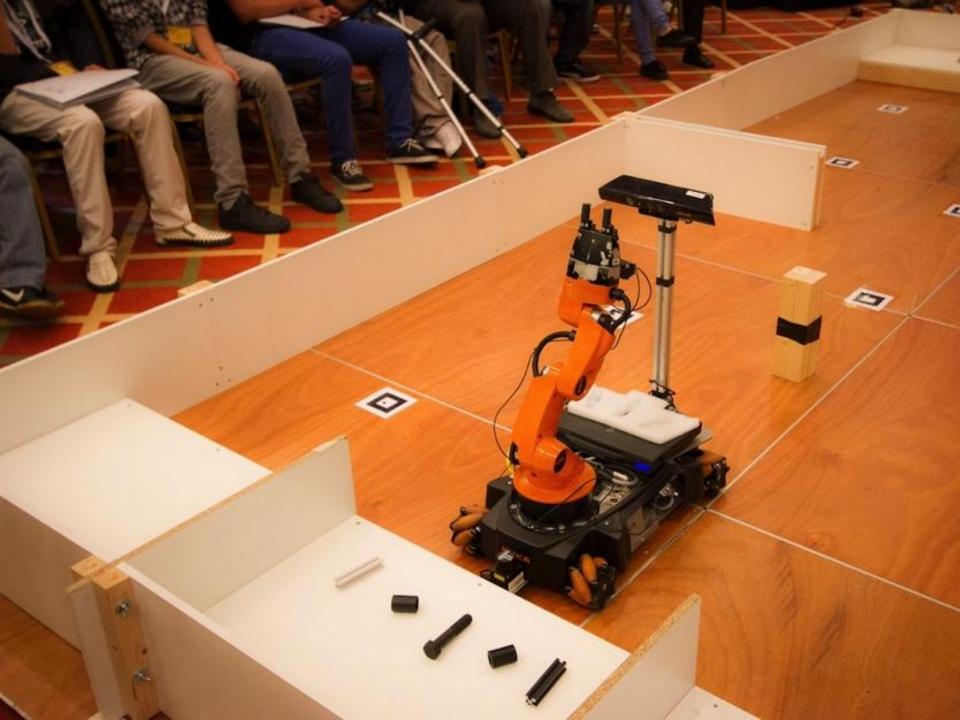


















# Celebrating 25 Years

- Special Jubilee Session
- Jubilee Video
  - Presentation of 5 minute professional videos
  - Special session with Jubilee
  - Best IROS Jubilee Video Award
- Award Ceremony

























### Youth Outreach Event

#### Pre-College Student Event

- 40 students from schools of Algarve Region
- invited to visit the Exhibitors Areas
- contact with the latest robotics-related technologies
- attend some plenary sessions and robotics competitions.
- special session on how to become a robot creator.





















## **Social Events**

- Opening Ceremony Monday, October 8, 9:00-9:30.
- Welcome Reception Monday, October 8, 19:00-21:00.
- RAS events:
  - Women's Lunch Tuesday, October 9, 12:45-13:45.
  - Gold Lunch On Wednesday, October 10, 12:45-13:45,
  - Lunch with Leaders October 10, 12:45-13:45.
- Gala Dinner Wednesday, October 10, evening by the pool.
- Silver Jubilee Celebrations and Award Ceremony Thursday, October 11, at 10:00 a.m.
- Farewell Lunch Thursday, October 11, at 12:30

































### **Organizing Institutions:**

- University of Coimbra, Portugal
- Institute for Systems and Robotics (ISR)

Program Chair: Prof. Eugenio Guglielmelli

Vice Chair: Prof. Kazuhiro Kosuge

Vice & Financial Chair: Dr. Paulo Peixoto

#### **Program Cochairs:**

-Dr. Dino Accoto and Dr. Christian Laugier

#### ICRB:

-Nancy Amatto, Editors and Associate Editors

#### **IROS Silver Jubilee Committee Chair**

-Tzyh-Jong Tarn, Washington University, USA





















# **Organizing Committee**

- Workshops/Tutorial Chairs
   Iniversity of Coimb
  - Jorge Lobo, University of Coimbra, Portugal; Peter Corke, Queensland University of Technology, Australia; Radu Bogdan Rusu, Willow Garage/Stanford University, USA;
- Organized/Special Sessions
   Stefano Stramigioli (chair), Twente University, The Netherlands;
   Jianwei Zhang, University of Hamburg, Germany;
   Kazuhito Yokoi, IS/AIST, Japan
- Interactive Sessions Co-chairs
   Yasuhisa Hasegawa, Tsukuba Univ., Japan;
   Estela Bicho, University of Minho, Portugal
- Video Sessions Chair Raffaella Carloni, Twente University, The Netherlands
- Local Arrangements
   João Barreto (chair), University of Coimbra, Portugal;
   Paulo Menezes, University of Coimbra, Portugal





















# **Organizing Committee**

- Publications Chair: Jorge Batista, University of Coimbra, Portugal
- Exhibitions Committee
   Lino Marques (Chair), University of Coimbra, Portugal;
   Raj Madhavan, University of Maryland, College Park, USA
- Competitions Co-chairs
   Pedro Lima, Instituto Superior Técnico, UTL, Portugal;
   Rui Cortesão, University of Coimbra, Portugal
- Awards Committee
   Shigeki Sugano (Chair), Waseda University, Japan;
   Martin Buss, Technical University of Munich, Germany;
   Lynne Parker, University of Tennessee, USA
- Registration Chair: Rui Rocha, University of Coimbra, Portugal
- Publicity Co-chairs
   Yasushi Nakauchi, University of Tsukuba, Japan;
   Luis Gomes, University Nova de Lisboa, Portugal
- Information Technology Chair: Rui Araújo, University of Coimbra, Portugal























## **Corporate Sponsors**

### **Gold Corporate Sponsors exhibiting:**





### Silver Corporate Sponsors exhibiting:











































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# Thank you for Your Participation!

**But...** Enjoy the Farewell Lunch and the Remaining Workshops

















