FP6-001917
EURON
European Robotics Network

Network of Excellence
Information Society Technologies

DR.7.3
Summer Schools Organised Yr 2

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EPFL

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EURON Deliverable 7.6:

Evaluation of second year’s schools

In order to observe and continuously improve the quality of the EURON schools, we again asked each participant to fill in a questionnaire. The results of the questionnaire enable us to judge on the quality of the individual school and draw conclusions for future schools.

This document gives an overview on the evaluation results of the 2005-06 schools. It is an update of the presentation that was made at the EURON annual meeting in March 2006. The following Summer schools have been supported and the quality evaluated in the year 2005-06:

- **2nd EURON GeoPlex Summer School**
  **Modeling and Control of Complex Dynamical Systems**
  - 17-23 July 2005, Residential Center of the University of Bologna
  - [http://www-lar.deis.unibo.it/euron-geoplex-sumsch](http://www-lar.deis.unibo.it/euron-geoplex-sumsch)
  - Claudio Melchiorri, Stefano Stramigioli
  - **39 participants**

- **Perception and Sensor Fusion in Mobile Robotics (PSFMR)**
  - September 1-7, 2005, Ancona, Italy
  - [http://psfmr.univpm.it](http://psfmr.univpm.it)
  - Primo Zingaretti
  - **43 participants**

- **IURS-2005 Robotics and Neuroscience**
  - September 5-9, 2005, Benicassim, Spain
  - [http://www.robot.uji.es/research/events/iurs05](http://www.robot.uji.es/research/events/iurs05)
  - Angel P. del Pobil, Yiannis Demiris, Jose M. Carmena
  - **51 participants**

- **Surgical Robotics**
  - September 7-14, 2005, Montpellier, France
  - [http://www.lirmm.fr/UEE05](http://www.lirmm.fr/UEE05)
  - Etienne Dombre, France
  - **37 participants**

- **Camp on Rescue Robotics**
  - October 29 - November 2, 2005, ROMA, Italy
  - [http://sied.dis.uniroma1.it/camp](http://sied.dis.uniroma1.it/camp)
  - Daniele Nardi
  - **47 participants**

- **IURWS-2006 (1st Int. UMH Robotics Winter School) Telesurgery**
  - March 26–31, 2006, Flamingo Oasis Hotel, Benidorm, Spain
  - José Maria Azorín
  - **24 participants**
EURON II Schools

1. Report EURON Schools 2005-06
2. Summer Schools 2006
3. Update on Funding Policy
4. Ideas for the Future

Four Summer Schools 2005

- **2nd EURON GeoPlex Summer School**
  - *Modeling and Control of Complex Dynamical Systems* 39 participants
  - 17-23 July 2005, Residential Center of the University of Bologna
  - http://www-lar.deis.unibo.it/euron-geoplex-sumsch
  - Claudio Melchiorri, Stefano Stramigioli

- **Perception and Sensor Fusion in Mobile Robotics** 43 participants
  - September 1-7, 2005, Ancona, Italy
  - http://psfmr.univpm.it
  - Primo Zingaretti

- **IURS-2005 Robotics and Neuroscience** 51 participants
  - September 5-9, 2005, Benicassiml, Spain
  - http://www.robot.uji.es/research/events/iurs05
  - Angel P. del Pobil, Yiannis Demiris, Jose M. Carmena

- **Surgical Robotics** 37 participants
  - September 7-14, 2005, Montpellier, France
  - http://www.lirmm.fr/UEE05
  - Etienne Dombre, France

Thank you to all organizers, lecturers and participants
Winter Schools 2005/06

- **Camp on Rescue Robotics**
  - October 29 - November 2, 2005, ROMA, Italy
  - [http://sied.dis.uniroma1.it/camp](http://sied.dis.uniroma1.it/camp)
  - Daniele Nardi

- **IURWS-2006 (1st International UMH Robotics Winter School)**
  - Telesurgery
  - March 26-31, 2006, Flamingo Oasis Hotel, Benidorm, Spain
  - José Maria Azorín

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EURON Schools 2005-06

**Participants by Country (EU)**

- **Total Europe:** 209 (112 in 2004-05)
- **Total others:** 32 (75 in 2004-05)

Number of participants from new member countries are increasing.
Participants by Country (EU)

**Participants 2005-06 from Outside Europe by Country and School**

- **Country:**
  - USA
  - Japan
  - Australia
  - Canada
  - Korea
  - Mexico
  - Singapore

**Number of Students**

- **Total Europe:** 209 (112 in 2004-05)
- **Total others:** 32 (75 in 2004-05)

**Major/Level of education of Participants**

**Major of Participants (%)**

- Electrical engineering
- Mechanical engineering
- Computer science
- Others

**Level of Education of Participants (%)**

- Master
- Doctoral Student (first half)
- Doctoral Student (second half)
- Postdoc

**How to get mechanical engineers involved?**

**Major of Participants (%)**

- Electrical engineering
- Mechanical engineering
- Computer science
- Others

**Level of Education of Participants (%)**

- Master
- Doctoral Student (first half)
- Doctoral Student (second half)
- Postdoc
EURON Schools 2005-06

Quality of Program, Lectures, Exercises and Rhythm,

- Problem with exercises still remain
- % of very good decreased

EURON Schools 2005-06

General Quality by School

- PSFMR
- Robotics and Neuroscience
- Geoplex
- Surgical Robotics
- Telesurgery
- Rescue Robotics

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EURON Schools 2005-06

Quality of Side Elements

- In general a little better

EURON Schools 2005-06

Costs / Future Editions

Do you like to participate on future editions of EURON Summer Schools?

- Yes absolutely 67% (71% in 2004)
- Probably 31.5% (29% in 2004)
- No 1.5% (0% in 2004)
2 Summer Schools 2006

- 2nd Summer School on Perception and Sensor Fusion in Mobile Robotics
  - September 11 - 16, 2006, Fermo, Italy
  - http://psfmr06.univpm.it/
  - Primo Zingaretti <zinga@diiga.univpm.it>

- 3rd Summer School in Simultaneous Localisation and Mapping
  - August 27-31 2006, University of Oxford, UK
  - www.robots.ox.ac.uk/~SSS06
  - Paul Newman <pnewman@robots.ox.ac.uk>

- IURS-2006 (6th International UJI Robotics School)
  - Humanoid Robots
  - September, 18-22, 2006 Hotel Bonaire Benicàssim, Spain
  - http://www.robot.uji.es/lab/plone/iurs06/
  - Angel P. del Pobil pobil@icc.uji.es

Thank you to all proposers, sorry for those who did not make it

3 Update on Funding Policy

- Basic Conditions:
  - Sponsoring only possible if you have at least 15 registrations from at least 10 different EURON member institutions.

- Budget Allocation:
  - A maximum of 3 k€ for supporting travel and accommodation of lecturers
  - A maximum of 1 k€ for administration and other elements
  - A maximum of 200 € per participating student from EURON member institution.
  - Maximum: 10 k€ (if 30 and more students)
4 Ideas for the Future

- Conservation of course material of the summer school
  - Collect it on one Web server
  - Simple structures to access the material
  - Rating based on summer school questionnaire

- Summer school for high- / primary-school teachers
  - Goal: To attract more female students for studies in science and technology
  - Collection of interesting material (mainly videos)

- EURON distinguished lecturer program for high-/primary-schools

4 Propositions of Students for Future Schools

- The key list

![Bar chart showing propositions for future schools]
Other Propositions of Students for Future Schools

- Active sensing
- Advanced issues in manipulation
- Applications of Service Robots
- Artificial skins
- Autonomous systems
- Medical, biomedical robotics
- Bionic, Biologically-inspired robotics
- Cognition, knowledge models
- Computer vision
- Developmental Robotics
- Different (fast) learning principles
- Emotions
- Grasping
- HRI Evaluation
- Impact of Software frameworks
- Learning and Evolution
- Mixed Imitative interaction
- Modelling 3D of the environment
- More Affective Computing
- Motion control
- Motion detection and Tracking
- Neuroscience and Robotics
- Object recognition
- Primitives of outdoor recognition
- Qualitative approaches, planning, reasoning
- Robot Architecture (design and implementation)
- Robotic Application to human
- Robotics and AI
- Robotics and Ethics
- Sociable Robots
- Tactile Sensors
- Team Work / Collaboration
- User models