

# ***Università Politecnica delle Marche - Ancona***

***Facoltà di Ingegneria***

***Dipartimento di  
Ingegneria Informatica,  
Gestionale e  
dell'Automazione***



***Dr. Andrea Monteriù***

***(a.monteriu@univpm.it)***

# **Engineering Faculty**

## **11 Departments**

- **Basic Sciences**
- **Industrial engineering**
- **Civil / Environment engineering - Architecture**
- **Information engineering**

**≈ 6000 students**

**11 Laurea courses (1<sup>st</sup> level)**

**12 Laurea magistrale (2<sup>nd</sup> level)**

**≈ 160 Professors / Assistants**



***SIOI (Social Integration of Immigrants)***

***C.I.R.A.B. (Centro Interdipartimentale  
di Ricerca per l'Adriatico e Balcani)***

***... as a continuation of***

***SeA (Secretariat for the Adriatic Sea)***

***Regione Marche: collaboration with CIRAB***

## ***Our approach:***

***Research Activity as opportunity to introduce significant collaborations between University and Industries***

***to extend to SIOI project:***

***The same approach (the same model) can be used in this project: to use of scientific activities to increase the collaboration between the “two sides” of the Adriatic Sea!!***

***Our department:***

***Dipartimento di Ingegneria Informatica,  
Gestionale e dell'Automazione***

***Sections:***

- ***Systems Engineering and Automation***
- ***Computer Engineering***
- ***Management***



## ***Se.A. (Secretariat for the Adriatic Sea)***

### ***Start-up Communities***

#### ***Community:***

- Industrial Automation for Innovation***
- Young Experts in Information Technology***

***Prof. Sauro Longhi***  
***PhD Andrea Monteriù***  
***PhD Massimo Vaccarini***

# ***Industrial Automation for Innovation & Young Experts in IT***

## **■ Marine Systems**

- › *Autopilot*
- › *Course Keeping*
- › *Roll Stabilization*
- › *Navigation*

## **■ Robotics**

- › *Mobile Robots*
- › *Sensor fusion*
- › *Vision*
- › *Swarm Formations*

## **■ Process Control**

- › *Decentralized Control and Coordination*
- › *Control with Constraints*
- › *Safety and Security*

## **■ ICT in automation**

- › *Networked Control Systems*
- › *Networks of Sensors and Actuators*
- › *Platforms and Operating Systems for ICT*

## *Results:*

***Create the opportunity for activating a collaboration among the regions involved in the Se.A. Project, starting from the academic world where some cooperations already exist.***



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*Created the opportunity for activating a collaboration among the regions involved in the Se.A. Project, started from the academic world where some cooperations already exist.*



*Extended the activity to the public administrations and the private sector in order to make the community more useful and effective.*



# Results:

**Create the opportunity for activating a collaboration among the regions involved in the Se.A. Project, starting from the academic world where some cooperations already exist.**

**Activity A: Special session Se.A. at the CAMS 2007 Conference (Bol, Croatia, September 2007).**

**Extend the activity to the public administrations and the private sector in order to make the community more useful and effective.**



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**Activity B: DataBase for Young Experts in IT to avoid the brain drain, and to build a quality working mobility useful for economy and company development on both shores**

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**Activity C: Database of professions** to identify immigrants professional competences and their level of instruction (in collaboration with Terzavia Onlus Association).

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**Extend the activity to the public administrations and the private sector in order to make the community more useful and effective.**

**Activity D: Promotion of the community** in both sides of the Adriatic Sea.

# Activity A: Special session Se.A. at the CAMS 2007

## IFAC Conference on Control Applications in Marine Systems



**Bol, Croatia**  
**September 19-21, 2007**

<http://www.cams07.fer.hr/>

### IMPORTANT DATES

July 30, 2007 Paper proposals deadline  
August 6, 2007 Posters acceptance notification  
August 20, 2007 Final poster submission deadline

### POSTER SESSION

**“Collaborative Activities in Marine Systems around the Adriatic Region”**

### CALL FOR POSTERS

Dear colleagues and researchers,

It is our pleasure to announce a “Poster Session” entitled “Collaborative Activities in Marine Systems around the Adriatic Region” inside the next IFAC Conference on Control Applications in Marine Systems (CAMS’07) to be held in Bol, Croatia from September 19 to 21, 2007. All information about the conference is available at the website of CAMS’07: <http://www.cams07.fer.hr/>

The Poster Session is supported by the “SIOI Project” (Social Inclusion Of Immigrants), an INTERREG project coordinated by Professor Eros Moretti of Polytechnic University of Marche. The project consists of a series of pilot actions, included in the different approaches to the problem of immigrant social integration and the support to the structures working with immigrants. The general goal of the INTERREG IIIA Adriatic Crossborder Operational Programme is the “promotion of social and economic development and cooperation between the Countries of the Adriatic Area”. The INTERREG programme aims to increase awareness by the local communities involved of their belonging to one Adriatic community, whose creation is the goal of the programme. Therefore, the programme aims to help the different populations involved achieve the same living standard, one that is also closer to EU standards.

In this context, it is born a “CAMS’07 Poster Session”, a sort of a “scientific meeting”, where students, young researchers, scientists, professors and companies of the different countries of the Adriatic area can discuss of their research interests and developments, the latest research findings, and thus, share their knowledge. This is a significant opportunity to interact to each other and to attract attention of the conference participants. In this special session each contributor is called to expose his/her original, previously published or unpublished work within the scope of CAMS’07, aimed at promoting discussion on relevant and timely topics within the different technical conference tracks.

You are kindly invited to submit your work, by the following deadlines:

<b>Poster Abstract Proposals Submission Deadline:</b>	<b>July 30, 2007</b>
<b>Decision of acceptance of Poster Proposals:</b>	<b>August 6, 2007</b>
<b>Final Poster Submission Deadline:</b>	<b>August 20, 2007.</b>

All submissions are to be conducted by electronic mails. Detailed instructions will be found at <http://www.cams07.fer.hr>. All Posters must be written in English. The posters to be submitted to the conference should contain sufficient details including key concepts and features of the work. Every poster should include the title, authors, affiliations and email addresses. The Poster Template will be available on the website and will be sent by mail to each contributor. The Poster Session topics are the same of the conference, but are not limited to those ones.

We look forward to meeting you in Bol in September 2007.

Kindest regards,

Prof. Sauro Longhi  
IFAC CAMS’07 International Program Committee Chair

Prof. Zoran Vukic  
IFAC CAMS’07 National Organizing Committee Chair

Dr. Andrea Monterù  
IFAC CAMS’07 Special Poster Section Organizer

Supported by:



European Programme of  
Cross Border Cooperation



Social Integration  
Of Immigrants

## *Activity A: Special session Se.A. at the CAMS 2007*

- ✓ **“CAMS’07 Poster Session”** has been held in Bol on Friday September 22nd, 2007 from 10:15am to 12:00pm
- ✓ **Different contributors, coming from different countries, have participated to the Poster Session**
- ✓ **This Poster Session has contributed to achieve the SIOI objective, promoting discussion on relevant and timely topics within the different technical conference tracks**
- ✓ **9 posters of a high level of quality and professionalism**

## *Activity A: Special session Se.A. at the CAMS 2007*

- ✓ During the afternoon, all contributors of the Poster Session have continued their work in a coordination meeting
- ✓ “CAMS’07 Poster Session” has offered a great chance for a sort of a “scientific meeting”, where students, young researchers, scientists, professors and companies of the different countries of the Adriatic area have discussed of their research interests and developments, the latest research findings, and thus, shared their knowledge and know-how

## *Activity B: DataBase for Young Experts in IT*

- ✓ Database for young experts in Information Technology, in the Adriatic area, in collaboration with the technical, scientific Faculties of the partner universities
- ✓ The database is reachable from Se.A. Online Community
- ✓ The database is available from companies, both for Eastern Adriatic Countries and Italian Adriatic Region, in order to avoid the brain drain, and to build a quality working mobility useful for economy and company development on both shores



Your topics



All topics

Total members: 98

Topics list

SIOI - Social Inclusion of Immigrants



**SOCIAL INTEGRATION OF IMMIGRANTS**

NPPA INTERREG-CARDIS-PHARE / INTERREG IIA Adriatico

The project aims to promote the establishment of an Adriatic Observatory for Migrants, as a permanent network among the various competent institutions and organizations involved in the management of immigration flows, including immigrants associations. It also aims to identify and develop new forms of attracting qualified migration flows, and to create a network of centres and qualified operators for the animation and inclusion of local immigrants communities.

Enter

Database for Young Experts in IT **NEW**

Last Threads ➤ View All



Project Documents



Project Documents



Project Contacts

Last Documents ➤ View All



Project Starting Report SIOI\_ita  
23/05/2007 18.27.18



Application Form Interreg III A  
SIOI\_english 22/05/2007 17.26.08



Formulario Progetto Interreg III A  
SIOI 22/05/2007 17.29.07

Last Events ➤ View All



**Date:** Dal 09/06/2008 al 10/06/2008 **At:** All day **Place:** Ancona - Economics Faculty - Council Room



**FINAL MEETING OF THE S.I.O.I. PROJECT (INTERREG IIIA)**

The main scope has been to promote the activation of a path for the creation of the Adriatic Observatory for Migrations, as a permanent network among the various competent institutions and organisations in management the migratory flows, including the associations of immigrants.



Program of the S.I.O.I. Final Meeting



**Date:** Dal 19/09/2007 al 21/09/2007 **At:** All day **Place:** Bol, Croatia



**CAMS 2007 - POTER SESSION FOR SIOI PROJECT**

The scope of the IFAC conference on Control Applications in Marine Systems, CAMS



**Your topics**

**All topics**

Total members: **98**

**Topics list**

SIOI - Social Inclusion of Immigrants

**Database for Young Experts in IT** NEW



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Enter

**Last Threads** → View All



Forum of young experts in Information Technology

**Last Documents** → View All



CAMS2007: POSTER #1



CAMS2007: POSTER #2



CAMS2007: POSTER #3



CAMS2007: POSTER #4



CAMS2007: POSTER #5

**Last Events** → View All

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[Your topics](#)

[All topics](#)

 Total members: **98**
**DATABASE FOR YOUNG EXPERTS IN IT**

[Documents](#)

[Forum](#)

[Events](#)

Document name	Alert	State	Author	Creation date
CAMS2007: POSTER #1		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #2		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #3		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #4		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #5		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #6		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #7		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #8		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #9		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #10		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #11		On going	Andrea Monteriù	09/06/2008
CAMS2007: POSTER #12		On going	Andrea Monteriù	09/06/2008
ALPIQuadro Company		On going	Andrea Monteriù	08/06/2008
IDEA Company		On going	Andrea Monteriù	08/06/2008
INTEGRA Company		On going	Andrea Monteriù	08/06/2008
SEED Company		On going	Andrea Monteriù	08/06/2008

Resources from users (go to forum and insert your resources).	Author	Creation date
CAMS 2007 Web Site	Andrea Monteriù	08/06/2008
SIOI: form for database of the professions	Andrea Monteriù	08/06/2008


[Your topics](#)

[All topics](#)

 Total members: **98**


### DATABASE FOR YOUNG EXPERTS IN IT > Forum of young experts in Information Technology


[Documents](#)

[Forum](#)

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[New post](#)

Author	Thread: Forum of young experts in Information Technology	Attachments
<p>Andrea Monteriù</p>  <p>Subscribed from 25/05/2007</p>	<p>Posted: 08/06/2008 at 18.35</p> <p>The forum of IT experts and researchers is available for the enterprises and permits to strengthen the IT sector in the Adriatic Sea through training courses and exchanges of researches. In this context, you are wellcome to share your experiences and specialisations which can be easily replicable in other contexts.</p> <p> <b>Reply</b></p>	<p>none</p>

**Your topics**

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**DATABASE FOR YOUNG EXPERTS IN IT**

**Documents**

**Forum**

**Events**

Suggest an event

■ **Date:** Dal 09/06/2008 al 10/06/2008 **At:** All day **Place:** Ancona - Economics Faculty - Council Room



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Program of the S.I.O.I. Final Meeting

< June 2008 >						
mo	tu	we	th	fr	sa	su
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

■ **Date:** Dal 19/09/2007 al 21/09/2007 **At:** All day **Place:** Bol, Croatia



**CAMS 2007 - POTER SESSION FOR SIOI PROJECT**

The scope of the IFAC conference on Control Applications in Marine Systems, CAMS 2007, is to bring together players in new technologies, methodologies and development of control systems that is playing a significant role for surface vessels, floating structures, sub-sea vehicles, and other devices within the marine environment. Mathematical modelling, simulation, advanced control, artificial intelligence techniques, communication technologies etc. can improve performance, reliability, security, economy and ecology of marine systems. The aim of the CAMS 2007, is to highlight all these topics, present the state of the art and the current research activities and advances in this field, establish the lines of innovative activities and analyse the transfers of innovative solutions to the industrial production marine systems.

The Conference topics include, but are not limited to:

- \* Marine traffic systems
- \* Ship manoeuvring
- \* Ship autopilots
- \* Roll damping
- \* Surface ship track control
- \* Dynamic positioning systems for ships \* Position mooring systems for ships
- \* Marine navigation systems
- \* Risk assesment and fault handling
- \* Offshore systems modelling and control \* Information systems and methods
- \* Intelligent marine control systems
- \* Thrusters and propulsion systems
- \* Modelling and identification
- \* Navigation, guidance, and control of autonomous marine vehicles (surface - ASVs and underwater - AUVs)
- \* Control of remotely operated vehicles (ROVs)
- \* Sensors and sensor integration in autonomous marine robots
- \* Maritime security and operational safety \* Cooperative navigation and control
- \* Control applications in shipbuilding

CAMS 2007 - CALL FOR POSTERS

Search events

From:   
 To:

Search

## *Activity C: DataBase of professions*

- ✓ **Permits to identify immigrants professional competences and their level of instruction through a form, specifically created for this object**
- ✓ **Increases the employment of immigrated workers**
- ✓ **The form completed with data and evaluation of competency is uploaded both on the site of the association and on the one activated for the project**
- ✓ **The local authorities, the employment offices and the private companies operating in the territory are able to use the forms for their employing search**



**Menu principale**

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Chi siamo

Cosa facciamo

Il nostro Statuto

Progetti

**Banca Dei Mestieri**

Pubblicazioni

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Contattaci

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Libro degli ospiti

Terzavia crede che per buona integrazione sociale degli immigrati sia importante la valorizzazione delle loro professionalità, competenze e interessi artistici. Per questo nell'ambito del progetto S.I.O.I. è stata creata questa banca dati sperimentale che vuole essere uno strumento per conoscere e contribuire ad utilizzare meglio le professionalità straniere. Chi è interessato può compilare o aggiornare la scheda di rilevazione che abbiamo preparato in collaborazione con la facoltà di Ingegneria dell'Università Politecnica delle Marche. I dati inviati saranno trattati nel rispetto della legge sulla privacy.

**DATI RELATIVI ALLA PERSONA.**

Cognome (\*)

Nome (\*)

Via (\*)

Città (\*)

Provincia (\*)

CAP (\*)

Telefono abitazione

Interessi (sport,arte,spettacolo,abilita' particolari,hobbies)

**DATI RELATIVI ALLA FAMIGLIA.**

Cognome della moglie/marito/convivente

Nome della moglie/marito/convivente

Eta' della moglie/marito/convivente

Nazionalita' della moglie/marito/convivente

Professione della moglie/marito/convivente

Note su altro componente familiare:

Nore aggiuntive:

*Le informazioni contenute in questa scheda sono riservate e destinate esclusivamente alla gestione della Banca dei Mestieri interna a Terzavia.*

Autorizzazione per il trattamento dei dati personali (\*)

**Autorizzo l'Associazione Terzavia al trattamento dei miei dati nell'ambito dei fini previsti dal progetto e nelle modalita' regolate dal Decreto Legge n.196/2003.**

**Invia**



*Activity D:  
Promotion of the community*

***Two PhD Students from Tirana:***

**Industrial automation:**

- 1. dott. Renalda Kushe (Industrial automation:  
Robotics)**
- 2. dott. Alfred Pjetri (Industrial automation:  
Electrical motors).**

## *Activity D: Promotion of the community*

*Already existent partnerships with local companies interested to join the community:*

*For example...*

***SPES*** is a company whose main goal is to provide high-tech design and consultant services, in the field of electronics and information technology, mainly addressed to small and medium companies and devoted to develop innovation technology based projects.



***Preliminary contacts in Albania ...***

## Concluding

### ***Our contributions:***

***to increase the study mobility of professor and PhD students***

***to plan the development of research projects***

***to promote the technological transfer between Universities and Industries***