FINAL PROGRAM

5-7 June 2006

UNIVERSITY OF PALERMO

Organized by

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European Technology Institute

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ICAR CNR

Dipartimento di ELETTRONICA, INFORMATICA E SISTEMISTICA

ENSAIT
Ecole Nationale Supérieure des Arts et Industries Textiles

UNIVERSITEIT GENT

AEKI

UNIVERSIDAD POLITECNICA DE VALENCIA

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General Information

1. Conference Location

The Conference is held at

Università degli Studi di Palermo
Viale delle Scienze
I-90128 Palermo
General Chair Telephone Number: +39.329.614.7704
General Chair Fax Number: +39.91.65.23.124

The registration desk will be placed in the hallway of the University of Palermo from Monday June 5th morning onwards, where registration will start at 08.00 and will end at 17.30. On Tuesday June 6th registration will be from 8.30 a.m. - 17.00 p.m. with Wednesday registration only from 8.30 a.m.- 9.00. a.m.

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

How to get to the University:
Falcone e Borsellino Airport (Palermo) is the closest airport to Palermo, located at Punta Raisi, about 32km (20 miles) far from the university campus. The airport is well connected with Palermo by a light rail service (Trinacria Express), with trains running all day long between the airport and *Palermo Central* Railway Station. One of the stops along the route, called *Orleans*, is located just in front of the main entrance of the University campus. The airport is also connected to Palermo by motorway, and a regular service of coaches connects the terminal with the town centre (one way ride about 50 mins).
The **Italian Railways** offer daily connections with the European railway network, and provides daily connections with all the Italian major cities from Palermo's central rail station. Several night and day train services run from Palermo to Rome (journey about 12 hrs) and from Palermo to Milan (17-18 hrs)
by car: drive along the A19/20 motorway from Catania/Messina towards Palermo; once entering Palermo's area, A29 will become a urban ring road called Viale Regione Siciliana. Keep driving along Viale Regione Siciliana in the west-bound direction (towards Trapani), till you get to the crossing with Via Ernesto Basile. Turn to the right (in the direction towards the sea) to enter Via Ernesto Basile. After a couple of miles driving down Via Ernesto Basile you get the university campus located on your left. Now you can easily drive into the campus by following the street signs.
by light rail metro: departures from Palermo's main railway station with stops located along the route within the town. Getting off at *Orleans* metro stop, you will be in front of one of the main entrances to the campus, at walking distance from DIMA (5 mins).

2. Badges

Each registrant will receive a name badge upon registration. The badge must be worn, in order to be admitted to the technical sessions, lunches and social event. **One day participants will receive a one day designated badge. One day participants are admitted to the technical sessions and lunches of the day in which they participate.**

3. Tickets

Extra tickets for the social event and lunches are available from the registration desk. Price: (or equivalent in another currency) for extra tickets

Extra conference dinner and guided tour of the botanical gardens:	**€ 60**
Extra lunch ticket	**€ 20**

4. Registration

The ISC'2006 Registration Desk will be open for information and registration:

Monday, June 5 .....8.00 a.m. to 5.00 p. m.
Tuesday, June 6 .....8.30 a.m. to 5.00 p. m.
Wednesday, June 7.....8.30 a.m. to 9.00 a.m.

The location of the registration desk will be signposted

5. Conference Proceedings

Each fully paid registrant will be provided with a copy of the Conference Proceedings (printed format).**This is NOT applicable to students who are not authors**.
(Extra copies are available on a cash and carry basis at special rates during **ISC'2006**)

Price: (or equivalent in another currency) for an extra copy

ISC'2006 Proceedings CASH AND CARRY	**€ 50**

6. Meeting Rooms

The meeting rooms are designated A-B-C and D (Internet). The way to the rooms will be signposted

General Information

7. Need Help?

Please see the conference desk for your questions

8. Social Events and Lunches

All full paying registrants are invited to
The **get-together party** on Monday June 5th at 6.00 p.m. at the University of Palermo. **This party is open to full 3-day registrants only.**
All **lunches** are served at the University of Palermo

The Conference Dinner
All full paying participants are invited to the conference dinner on **TUESDAY** the **6th of June**. As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Monday lunchtime**. The conference dinner will be held at the Orto Botanico di Palermo and will start at .8.00 p.m. after the guided tour. (the start time of the tour will be announced at the conference)

Address: **Via Lincoln, 2/A - 90123 Palermo – Italy**

Information:: Numero Verde 800-903631 **or +39 0916238234**

Another detailed map can be found at the back of the programme

9. Best Paper Award

During the conference the papers, which were accepted as extended papers will be judged by the committee in order to choose the best paper of the **ISC'2006** conference.

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL

THE NUMBERS NEXT TO THE PRESENTATIONS DENOTE THE PAGE-NUMBERS IN THE PROCEEDINGS. IF NO NUMBERS ARE MENTIONED THEN THIS PAPER IS NOT PUBLISHED IN THE PROCEEDINGS

THE AUTHORS WHO ARE UNDERLINED ARE NORMALLY THE PRESENTERS

PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS ELIGIBLE FOR THE BEST PAPER AWARD

CHECK OUT THE OTHER EUROSIS EVENTS ON OUR WEBSITE:
http://biomath.rug.ac.be/~eurosis **and http://www.eurosis.org**

MONDAY, 5th JUNE 2006

08.00-17.00	REGISTRATION			
09.00-09.15	OPENING SESSION IN THE MAIN HALL			
09.15-10.00	KEYNOTE ADDRESS BY HEINZ WEIGL, TU VIENNA, AUSTRIA			
10.00-10.30	COFFEE BREAK			
10.30-12.30	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	AOSE AND SIMULATION	HEALTH CARE LOGISTICS	ELECTRONICS DESIGN SIMULATION	INTERNET ROOM
12.30-14.00	LUNCH BREAK			
14.00-15.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	MULTI-AGENT SYSTEMS	ORGANIZATIONAL SIMULATION	BACK-UP SESSION	INTERNET ROOM
15.00-15.30	COFFEE BREAK			
15.30-18.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	AGENT BASED TECHNOLOGY ROUND TABLE DISCUSSION	COMPLEX SYSTEMS SIMULATION	SEMI-CONDUCTOR MANUFACTURING	INTERNET ROOM

18.00 19.30 GET-TOGETHER-PARTY at the University of Palermo

TUESDAY, 6th JUNE 2006

08.30-17.00	REGISTRATION			
09.00-10.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	DISTRIBUTED SIMULATION	SIMULATION DRIVEN DESIGN	LOGISTICS SIMULATION	INTERNET ROOM
10.00-10.30	COFFEE BREAK			
10.30-12.30	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	VIRTUAL TEXTILES AND OPTIMIZATION	MANUFACTURING PROJECT DATA SIMULATION AND MILITARY ORGANIZATION	SUPPLY CHAIN SIMULATION AND OPTIMIZATION	INTERNET ROOM
12.30-14.00	LUNCH BREAK			
14.00-15.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	AI BASED SIMULATION APPLICATIONS	LARGE SCALE SIMULATORS	INDUSTRIAL PROCESS ANALYSIS SIMULATION I	INTERNET ROOM
15.00-15.30	COFFEE BREAK			
15.30-18.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	TEXTILE PROCESS SIMULATION	TRAINING SIMULATORS AND DISTANCE LEARNING	INDUSTRIAL PROCESS ANALYSIS SIMULATION II	INTERNET ROOM
20.00 – 23.00	CONFERENCE DINNER			

WEDNESDAY, 9th JUNE 2006				
08.30-09.30	REGISTRATION			
09.00 10.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	VISUAL INTERACTIVE SIMULATION	SIMULATION IN ROBOTICS	TEMPERATURE AND AIRFLOW SIMULATION	INTERNET ROOM
10.00-10.30	COFFEE BREAK			
10.30 12.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	STEEL MANUFACTURING SIMULATION	DECISION SUPPORT SYSTEMS	SIMULATION OF ECOLOGICAL SYSTEMS	INTERNET ROOM
12.00-12.15	CLOSING SESSION AND BEST PAPER AWARD MAIN HALL			

Monday, 5th June 2006

HALLWAY

Registration

08.00 - 17.00

MAIN HALL

09.00 – 10.00

Opening ISC2006 and Welcome

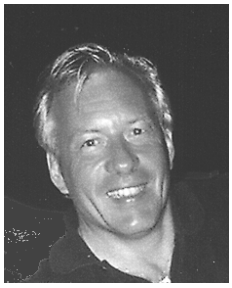
Welcome Address

Professor Alessandro Genco
University of Palermo
ISC'2006, General Conference Chair

Philippe Geril
EUROSIS, Ghent University
EUROSIS Coordinator

09.15 – 10.00

KEYNOTE SPEECH
Chair: Alessandro Genco, University of Palermo, Palermo, Italy



Didactic Role of Computer Simulation in Education and Industry
K. Heinz Weigl **5**

Monday, 5th June 2006

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

ROOM A- 10.30-12.30 AGENT
AOSE AND SIMULATION
Chair: Massimo Cossentino, ICAR, Palermo, Italy

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Juan Pavón, Candelaria Sansores and Jorge Gómez-Sanz..... **9**

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Giancarlo Fortino, Alfredo Garro, Wilma Russo, Roberto Caico, Massimo Cossentino and Francesco Termine..... **17**

AGENT-07
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Sara Montagna, Alessandro Ricci and Andrea Omicini..... **25**

AGENT-08
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Peter Summons and Joël Colloc..... **454**

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TRAF-13
A Decisional Model for the Performance Evaluation of the Logistic Process: Application on a Consultation Ambulatory Unit of a Hospital Supply Chain
Christian Alexandre, Pierre Féniès and Sophie Rodier **459**

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ELECTRONICS DESIGN SIMULATION
Chair: Oliver Rose, Dresden University of Technology, Dresden, Germany

ELEC-01
Fuzzy Simulation to Speedup Computer Design
Giuseppe Ascia, Vincenzo Catania, Alessandro G. Di Nuovo, Maurizio Palesi and Davide Patti **285**

ELEC-08
SIMPil-K: a SIMD Reconfigurable Platform Processor for Real-Time Image Processing
F. S. Fabiano, A. Gentile and F. Sorbello **290**

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ELEC-07
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Peter Lawrence **300**

ROOM D- 10.30-12.30 INTERNET
INTERNET ROOM

12.30 - 14.00
LUNCH BREAK

Monday, 5th June 2006

14.00 – 15.00

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MULTI-AGENT SYSTEMS
Chair: Giancarlo Fortino, Universita della Calabria, Rende, Italy

AGENT-02
Biometric Authentication and Reputation Based Policies in a MAS Security Framework
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ToothAgent: Brushing on your Behalf
Sameh Abdel-Naby and Paolo Giorgini **49**

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Improving a Call Center Performance at a Telecommunication Company
Fawaz Abdulmalek **93**

TRAF-15
A New Highly Flexible Simulation Model for an Adaptable, Efficient and Safe Sectorization in an Air Traffic Area Control Center
Lorenzo Brunetta and Giorgio Romanin-Jacur **97**

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BACK-UP SESSION
Chair: to be announced later

This session is for people who cannot present their paper at the allotted time within the conference programme and who would like to move their presentation to this session. Authors are required to inform the organization before the start of the conference.

Monday, 5th June 2006

ROOM D- 14.00-15.00 **INTERNET**
INTERNET ROOM

15.00 - 15.30
COFFEE BREAK

15.30 - 18.00

ROOM A- 15.30-17.00 **AGENT**
AGENT BASED TECHNOLOGIES
Chair: Andrea Omicini, University of Bologna, Cesena, Italy

AGENT-01
Choosing the right Design Pattern: the Implicit Culture Approach
Aliaksandr Birukou, Enrico Blanzieri and Paolo Giorgini **55**

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Knime: The Konstanz Information Miner
Michael R. Berthold, Nicolas Cebron, Fabian Dill, Giuseppe Di Fatta, Thomas R. Gabriel, Florian Georg, Thorsten Meinl, Peter Ohl, Christoph Sieb and Bernd Wiswedel **58**

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Ari Happonen and Jari Porras **175**

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Ilka Habenicht..... **309**

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Jens Zimmermann and Lars Mönch **314**

ELEC-04
Analysis of a semiconductor wafer fab with an intermediate storage for partially finished logic products
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EUROSIS **ORGANIZATION UPDATE SESSION 17.15-17.45**

Monday, 5th June 2006

ROOM D- 15.30-17.30 **INTERNET**
INTERNET ROOM

18.00 -19.30

GET-TO-GETHER PARTY

All participants will meet at a designated point at the University of Palermo. Depending on the weather this will be held inside or outside the conference building.

Tuesday, 6th June 2006

HALLWAY

Registration

08.30 - 17.00

09.00 – 10.00

ROOM A- 09.00-10.00 METH
DISTRIBUTED SIMULATION
Chair: Alexei Lisounkin, Fraunhofer IPK, Berlin, Germany

METH-01
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Chair: Salvatore Sorce, University of Palermo, Palermo, Italy

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Architecture for integrated simulation driven design systems
Kaushik Sinha and Roland Haas **205**

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Life Cycle Features for Mechanical Product Analysis and Simulation
Christian Mascle **210**

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Chair: Hans Veeke, TU Delft, Delft, The Netherlands

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Katrien Ramaekers and Gerrit K. Janssens **409**

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TRAF-01
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10.00 - 10.30
COFFEE BREAK

10.30 - 12.30

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Chair: Vladan Koncar, ENSAIT, Roubaix, France

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Chair: Roland Haas, DaimlerChrysler Research, Bangalore, India

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Project Selection using Monte Carlo Simulation Technique
Ahmad R. Sarfaraz **199**

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ROOM C- 10.30-12.30 LOGIS

SUPPLY CHAIN SIMULATION AND OPTIMIZATION

Chair: Alessandro Genco, University of Palermo, Palermo, Italy

TRAF-04
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Thomas Thron, Niaz Wassan and Gábor Nagy **423**

TRAF-11
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Steven Moerman, Jaap Ottjes, Mitch Gorsira and Gabriel Lodewijks **431**

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INTERNET ROOM

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A. Augello, A. Santangelo, A. Gentile, S. Gaglio and G. Pilato..... **86**

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Chair: Mike Letherwood, US Army-RDECOM-TARDEC, Warren, USA

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A Flight Simulation Environment at the University of Naples
Domenico P. Coiro, Agostino De Marco and Fabrizio Nicolosi..... **115**

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ROOM D- 14.00-15.00 INTERNET
INTERNET ROOM

15.00 - 15.30
COFFEE BREAK

15.30 – 18.00

ROOM A- 15.30-18.00 TEX
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Chair: Vladan Koncar, ENSAIT, Roubaix, France

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Aron Pujana-Arrese, Ana I. Martínez-Esnaola, Félix Martínez, Carlos F. Nicolás and Joseba Landaluze **131**

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TRAIN-03
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Tiziana Durante, Annunziata Cascone and Rosaria Menna **156**

ROOM C- 15.30-17.30 IND
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Chair: Habtom Mebrahtu, Anglia Ruskin University, Chelmsford, UK

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An On-Line Parameter Estimation Scheme for a Fault Diagnosis System
C. Angeli and A. Chatzinikolaou **229**

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METH-06
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CHEM-06
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Bryan A.Buffham and Ian W.Cumming..... **242**

ROOM D- 15.30-17.30 INTERNET
INTERNET ROOM

CONFERENCE DINNER – 20.00 -23.00

At the **Orto Botanico di Palermo**. There will be a guided visit for all participants to the botanical garden followed by the conference dinner. More detailed information will be available at the conference site.

Address: Via Lincoln, 2/A - 90123 Palermo - Italy

Information:: Numero Verde 800-903631 +39 0916238234

Wednesday, 7th June 2006

HALLWAY

Registration

08.30 - 09.00

09.00 – 10.00

ROOM A- 09.00-10.00 GRAPHICS
VISUAL INTERACTIVE SIMULATION
Chair: Antonio Gentile, University of Palermo, Palermo, Italy

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Alessandro Genco, Salvatore Sorce, Rossella Battaglia and Eleonora La Spina..... **486**

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Chair: Hans Ottjes, TU Delft, Delft, The Netherlands

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Karol Kostur and Ján Kacur..... **515**

Wednesday, 7th June 2006

AERO-03
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Osama E. Abdellatif 520

ROOM D- 09.00-10.00 **INTERNET**
INTERNET ROOM

10.00 - 10.30
COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.00 **STEEL**
STEEL MANUFACTURING SIMULATION
Chair: Alessandro Genco, University of Palermo, Palermo, Italy

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Simulation of the Formation Process of Regular Grooves on Surface Ground
Piotr Stepien and Błażej Balasz 269

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The use of simulation to validate a new objective of steelmaking production
A. Bellabdaoui and S. Allet 251

MANUF-09
Coupled heuristic and simulation for steel production planning
A. Bellabdaoui 259

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Piotr Stępień, Błażej Bałasz, Tomasz Szatkiewicz and Tomasz Królikowski 265

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Chair: Peter Lawrence, Monash University, Clayton, Australia

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An Object Oriented Time Model of a Decision Support System for Intoxication Diagnoses
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TRAF-08
Multi Skilled Maintenance of a High-Speed Railway
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SIMULATION OF ECOLOGICAL SYSTEMS

Chair: Antonio Gentile, University of Palermo, Palermo, Italy

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Arturo de Salabert, Alfonso Ortega and Manuel Alfonseca **493**

METH-09-VERIF
Evaluation of Simulations with Conflicting Goals with Application to Cleaning of Young Forest Stands
Ulla Ahonen-Jonnarth and Jan Odelstad **498**

METH-11
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Ahmad Bagheri, Majid Alitavoli, Mehdi Aghakashi, Salar Basiri and Amir Hajiloo **504**

METH-05
A Spectral Expansion Method for the Simulation of Vertical Salinity Variations in Upper-Milford Haven Estuary, South Wales, UK
Bahareh Kaveh, Naghmeh Keshavarzi-Roonizi, Rahim Ghorashi and Vahid Nassehi **508**

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ROOM D- 10.30-11.00 **INTERNET**
INTERNET ROOM

MAIN HALL 12.00 - 12.15 **BEST PAPER**
CLOSING SESSION AND BEST PAPER AWARD
Chair: Alessandro Genco and Philippe Geril

SEE YOU ALL
JUNE 10- JUNE 12, 2007
AT THE TECHNICAL UNIVERSITY OF DELFT
FOR ISC'2007
IN DELFT, THE NETHERLANDS

Track proposals and tutorial proposals can be sent in by June 30th, 2006

CONFERENCE HOTELS

The following hotels are being used by the conference participants

Politeana Palace Hotel
Piazza Ruggero Settimo, 15
I-90133 Palermo, Italy
Tel: +39.09.132.2777
Fax: +39.09.161.11589

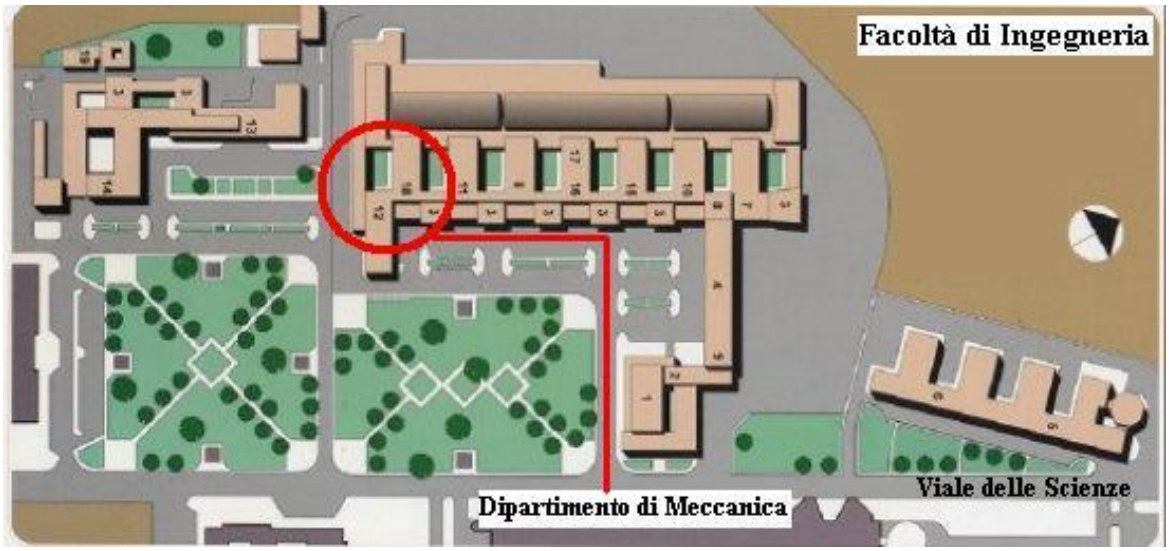
Hotel Plaza Opera
Via N.Gallo 2
I-90139 Palermo, Italy
Tel: +39.091.381.9026
Fax: +39.091.381.9260

Europa Hotel
Via Agrigento n.3
I-90141 Palermo, Italy
Tel: +39.091.625.6323
Fax: +39.091.625.9209

Atheneum Hotel
Near the University

Massimo Plaza Hotel
Via Maqueda 437
I-90133 Palermo, Italy

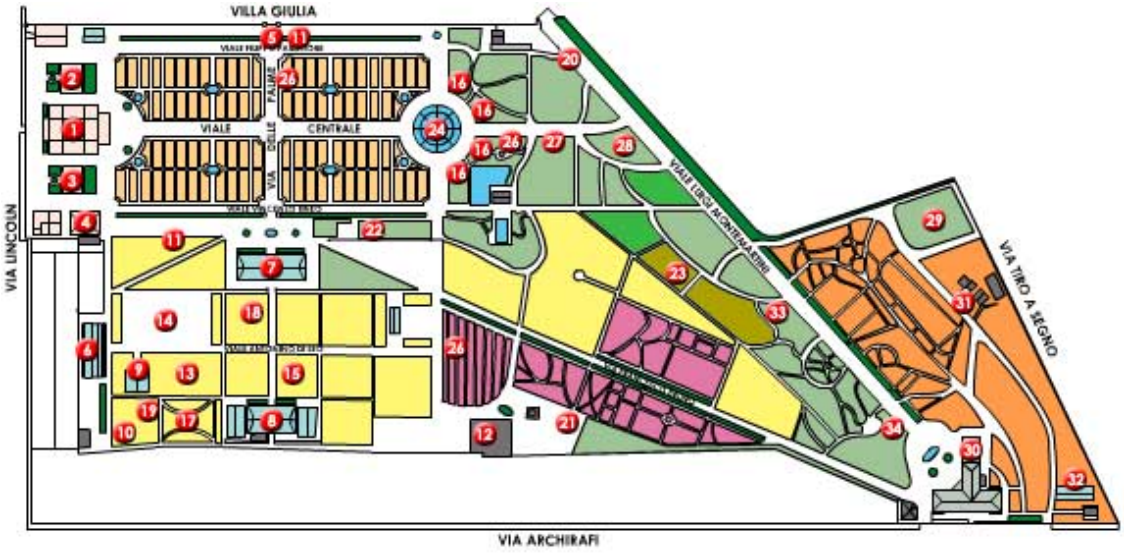
Conference Site Maps



Plan of the University of Palermo
The conference will be held in the L-shaped building on the left hand top of the map, NOT where indicated by the red circle.

The way to the building will be signposted

Conference Site Maps



Detailed Map of the Conference Dinner Site

Palermo by Rail

Conference Site Maps

EUROSIS was borne out of discussions with the European Community to set up a new kind of Society, which would be project driven instead of driven by pure membership and conferences.

The aim of the new Society will be to set up topic related Technical Committees which will link directly to European Projects in the field of computer simulation and related areas and to act as a knowledge pool for future European Networks of Excellence, like MOSAIC. A first general information meeting is scheduled for ESM2007 in Toulouse in October 2007.

If you would like to receive more information about EUROSIS, please contact

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EUROSIS Info