

Final Program



27-29. October 2003



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L-UNIVERSITÀ TA' MALTA



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the Consiglio Regionale della Campania (Campania Regional Council)
Assessorato all' Università e Ricerca Scientifica, Innovazione Tecnologica e
Nuova Economia

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General Information

1. Conference Location

The ESMc conference itself, is held at the main building of the Consiglio Regionale della Campania in the new administrative centre of Naples under the patronage of the CRC and of the Assessorato alla Ricerca Scientifica. The CRC is located at the Centro Direzionale, Isola F13.

The registration desk will be placed near the Internet Room from Monday morning onwards, where registration will start. On Monday and Tuesday registration will be from 8.30 a.m. - 5.00 p.m. with Wednesday registration only from 8.30 a.m.- 10.00. a.m.

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

TRAVEL INFO

From Hotel Holiday Inn: You are already at "Centro Direzionale"

From Hotel Rex : Go through via Nazario (the way beneath the sea) until you reach via Ferinando Acton (in red). At The first bus station get on the TRAM n.1 or any bus to Piazza Garibaldi. Get Off at Piazza Garibaldi(you can see a copper statue of Garibaldi). Get On the "Vesuviana" railway (near the central station in Piazza Garibaldi) to Centro Direzionale.

From P.za Garibaldi (Hotel Terminus and Central Station) Get the "Vesuviana" railway to "Centro Direzionale" near the central station.

From the airport: the best choice is to get a taxi

To P.Za Garibaldi (central station and Hotel Terminus) from the Airport: outside the Airport there is a bus (ALIBUS) leaving from it every 15 minutes. It stops directly in Piazza Garibaldi. Another Bus you can get outside the Airport to reach P.Za Garibaldi are the numbers:14 and 15

To Centro direzionale from P.za Garibaldi (central station and Hotel Terminus).

Outside the central station you can get the buses n. 30 and 58. You can reach the Centro Direzionale by foot also, turning on the right leaving the central station station. You have to get "Corso Meridionale" getting the first turn on the right. The Centro direzionale is about 1 Km far from the beginning of the way.

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.

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

conference dinner:	50 EURO	
Trip and inner on Wednesday	20 EURO	

General Information

4.Registration

The ESM'2003 Registration Desk will be open for information and registration:

Monday, October 27..... 8.15 a.m. to 5.00 p. m. in the hallway of CRC
Tuesday, October 28..... 8.15 a.m. to 5.00 p. m. in the hallway of CRC
Wednesday, October 29 8.30 a.m. to 10.00 a.m. in the hallway to CRC

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 ESM'2003)

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

ESM'2003 Proceedings	50 EURO
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6. Meeting Rooms

The four meeting rooms will be indicated by EUROSIS signs at the event.

7. Need Help?

Please see the conference desk for your questions

8. Social Events and Lunches

All registrants are invited to

All **buffet lunches** are served at CRC.

The Conference Dinner

All participants are invited to the conference dinner on Tuesday the 28th of October. The conference dinner will be held at la Bersagliera, Borgo Marinari 10/11, Santa Lucia 80132 Naples. Tel: +081.764.6016. Participants will meet at the bridge along the promenade near the Castel d'Oro in Naples at 8.00 p.m. (an exact plan will be posted at the registration desk)

The Conference Trip and visit on Wednesday afternoon to ancient Stabia, then the Fincantieri (**Cantieri Navali in Castellammare di Stabia**) shipyard in Castellammare followed by a "welcome" from the Major of Castellammare di Stabia, Ersilia Salvato, and Assessore for Culture Emma Giammattei. Followed by dinner at the Tico Tico Restaurant in Castellammare.

As we need to give an exact number of participants for this event, we would appreciate **your confirmation at the desk before Monday evening.**

General Information

9. Company Visit

A Company visit is scheduled for Tuesday afternoon to the Multimedia Design Laboratory of ARPA. University "Federico II" of Naples. This is within walking distance of the CRC Building.

A company visit is envisaged to the **FINCANTIERI - Cantieri Navali in Castellammare di Stabia** shipyard.

The bus for the visit will leave CRC at 2.00 p.m. on Wednesday afternoon. The visit will be part of the Wednesday trip.

a. 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 ESM'2003 conference.

b. Paper Legend:

O= Overhead
SL= Slide Projector
LCD= Projector
VCR= Video
PC= PC

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>

SUNDAY, 26 th OCTOBER 2003					
MONDAY, 27 th OCTOBER 2003					
08.30-17.00	REGISTRATION				
09.00-10.15	OPENING SESSION AND KEYNOTE SPEECH BY MANUSH GUPTA IN ROOM A				
10.15-10.30	COFFEE BREAK				
10.30-12.30	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	INVITED PRESENTATION ALOK CHOUDARY	SIMULATION LANGUAGES AND MODELS	WEB BASED SIMULATION	NUMERICAL MODELLING TECHNIQUES	INTERNET ROOM
12.30-13.30	LUNCH BREAK				
13.30-15.00	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	INVITED PRESENTATION PETER KACSUK	SIMULATION IN HEALTH CARE MANAGEMENT	PETRI NETS II	PERFORMANCE MODELLING AND ANALYSIS I	INTERNET ROOM
15.00-15.30	COFFEE BREAK				
15.30-17.30	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	DISTRIBUTED HARDWARE SOFTWARE ENVIRONMENTS	TRAFFIC SIMULATION TOOLS AND SIMULA APPLICATIONS	PETRI NETS III	PERFORMANCE MODELLING AND ANALYSIS II	INTERNET ROOM
18.00 FREE EVENING					

TUESDAY, 28th OCTOBER 2003					
08.30-17.00	REGISTRATION				
09.00-10.00	PARALLEL SESSIONS				
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	DISTRIBUTED SIMULATION IN PRODUCTION	TOOLS FOR ENERGY SIMULATION	AI AGENTS	INVITED PRESENTATION LUCILLA DE ARCANGELIS	INTERNET ROOM
10.00-10.30	COFFEE BREAK				
10.30-12.30	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	VALIDATION, ANALYSIS AND EVALUATION	PETRI NETS I	AI IN EXPERT SYSTEMS	SIMULATION OF BIOLOGICAL SYSTEMS	INTERNET ROOM
12.30-13.30	LUNCH BREAK				
13.30-15.00	PARALLEL SESSIONS AND COMPANY VISIT TO THE MULTIMEDIA DESIGN LABORATORY AT ARPA				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	OBJECT ORIENTATION AND RE-USE	TUTORIAL	NEURO FUZZY MODELLING	SIMULATION IN DISEASE CONTAGION	INTERNET ROOM
15.00-15.30	COFFEE BREAK				
15.30-17.30	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	SIMULATION IN DISTRIBUTED NETWORKS	SIMULATION IN SERVICES AND MANAGEMENT	NEURO FUZZY MODELLING WITH EXPERT SYSTEMS	SIMULATION IN ECOSYSTEMS	INTERNET ROOM
20.00	CONFERENCE DINNER at La Bersagliera				

WEDNESDAY 29th OCTOBER 2003					
08.30-10.00	REGISTRATION				
09.00 10.00	PARALLEL SESSIONS				
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	DISTRIBUTED SIMULATION APPLICATIONS	ROBOTICS SIMULATION	FLUID FLOW SIMULATION	VR APPLICATIONS	INTERNET ROOMI
10.00-10.30	COFFEE BREAK				
10.30 12.00	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	MOSAIC- GAMENET AND EUROSIS TC UPDATE MEETING	BACK-UP SESSION	ANALYTICAL SIMULATION OF ELECTRONIC CIRCUITS	GRAPHICS VISUALIZATION SIMULATION	INTERNET ROOM
12.00-12.15	CLOSING SESSION AND BEST PAPER AWARD ROOM A				
14.00-22.00	Afternoon trip ancient Stabia, then the Fincantieri (Cantieri Navali in Castellammare di Stabia) shipyard in Castellammare followed by a "welcome" from the Major of Castellammare di Stabia, Ersilia Salvato, and Assessore for Culture Emma Giammattei. Followed by dinner at the Tico Tico Restaurant in Castellammare.				

NOTES

Monday, 27th October 2003

HALLWAY

Registration

08.30 - 17.00

MAIN HALL

09.00 - 09.30

Opening ESM[®]2003 and Welcome

Welcome Address

Dr. Beniamino Di Martino
University of Naples II
ESM'2003, General Conference Chair
Welcome by

Ing. Bruno Casamassa, President of CRC

Prof. Luigi Nicolais, the "Assessore" (regional minister) of the assessurato

Prof. Antonio Grella, Rector of the University of Naples II

Prof. Oreste Greco, Dean of the faculty of Engineering at the University of Naples II

Philippe Geril
EUROSIS, Ghent University
EUROSIS Coordinator

Welcome

Monday, 27th October 2003

MAIN AUDITORIUM

09.30 - 10.15

KEYNOTE SPEECH

Chair: Beniamino Di Martino, University of Naples II, Naples, Italy

BlueGene/L: A Powerful Platform for Simulation

Manish Gupta **552**

10.15 - 10.30

COFFEE BREAK

Monday, 27th October 2003

10.30 – 13.00

ROOM A- 10.30-11.30

HPC

INVITED PRESENTATION

Chair: Beniamino Di Martino, University of Naples II, Naples, Italy

INV

A Case for on-line Data Analysis for large-scale Scientific Simulations

Alok Choudhary5

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METH

SIMULATION LANGUAGES AND MODELS

Chair: Sergio Briguglio, ENEA Italia, Frascati, Italy

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WEB

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Chair: Marcello Martinez, University of Naples II, Naples, Italy

WEB-2-LCD

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INTERNET ROOM

12.30 - 13.30

LUNCH BREAK

Monday, 27th October 2003

13.30 – 15.00

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HPC

INVITED PRESENTATION

Chair: Beniamino Di Martino, University of Naples II, Naples, Italy

INV

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

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INTERNET

INTERNET ROOM

15.00 - 15.30

COFFEE BREAK

Monday, 27th October 2003

15.30 - 18.00

ROOM A- 15.30-18.00

HPC

DISTRIBUTED HARDWARE SOFTWARE ENVIRONMENTS

Chair: Marco Briscolini, IBM Italia

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INTERNET ROOM**

INTERNET

FREE EVENING

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Tuesday, 28th October 2003

HALLWAY

Registration

08.30 - 17.00

09.00 – 10.00

ROOM A- 09.00-10.00

METH

DISTRIBUTED SIMULATION IN PRODUCTION

Chair: Raffaele Martone, University of Naples II, Naples, Italy

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INVITED

INVITED PRESENTATION

Chair: Beniamino Di Martino, University of Naples II, Naples, Italy

INV

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INTERNET

INTERNET ROOM

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

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METH

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Chair: Giorgio Ventre, University "Frederico II", Naples, Italy

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PETRI NETS

PETRI NETS I

Chair: Alexandre Nketsa, Universite Paul Sabatier, Toulouse, France

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Chair: Annamaria Molinari, University of Naples li, Naples, Italy

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BIO

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Chair: Giorgio Romanin-Jacur, University of Padova, Padova, Italy

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INTERNET

INTERNET ROOM

12.30 - 13.30

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14.00 - 15.30

**COMPANY VISIT TO MULTIMEDIA DESIGN LABORATORY
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are not in sessions.**

Tuesday, 28th October 2003

ROOM A- 13.30-14.30

METH

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Chair: Pasquale Russo, E-Works Sud

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Mercedes Ruiz, University of Cadiz, Isabel Ramos and Miguel Toro, University of Seville, Spain.

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AI

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Chair: Marco D'Apuzzo, University of Naples II, Naples, Italy

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INTERNET ROOM

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SIMULATION IN DISTRIBUTED NETWORKS

Chair: Beniamino Di Martino, University of Naples II, Naples, Italy

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

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AI

NEURO FUZZY MODELLING WITH EXPERT SYSTEMS

Chair: Razman Mat Tahar, University Utara Malaysia, Malaysia

NEURAL-3

Simulation and Modelling of Concurrency Control Enhancement through an Adaptive Neuro-Fuzzy Inference Expert System

Munib Qutaishat 229

METH-8-NEURAL-O-LCD

Machine Learning Fuzzy Method for the Modeling of Experts and Systems

Peter Otto 237

ROOM D- 15.30-16.30

BIO

SIMULATION IN ECOSYSTEMS

Chair: to be announced later

BIO-7-LCD

Changing the Level of Description in Ecosystem Models: An Overview

Pierrick Tranouez, Sylvain Lerebourg, Cyrille Bertelle and Damien Olivier..... 355

BIO-5-LCD

Hybrid and Hierarchic compartmental Approach for Ecosystem applied to Estuaries Modelization

Guillaume Prevost, Pierrick Tranouez , Cyrille Bertelle and Damien Olivier..... 360

Tuesday, 28th October 2003

BIO-12-BIOMAG

The Possibility of Qualitative Modeling of Renewable Fish Resources

Ante Munitic, Merica Sliskovic, Josko Dvornik and Gorana Jelic 364

BIO-8-AI-LCD

Agent Modeling of the Caparo Forest Reserve

Magdiel Ablan, Jacinto Dávila,, Niandry Moreno,, Raquel Quintero

and Mayerlin Uzcátegui..... 367

ROOM E- 15.30-17.30

INTERNET

INTERNET ROOM

CONFERENCE DINNER at 8.00 p.m.

All participants will meet at a designated point, which will be indicated at the conference desk.

The conference dinneris held at La Bersagliera, Borgo Marinari 10/11, Santa Lucia, 80132 Naples.

Parallel Sessions - Tuesday

Wednesday, 29th October 2003

HALLWAY

Registration

08.30 - 10.00

09.00 – 10.00

ROOM A- 09.00-10.00

HPC

DISTRIBUTED SIMULATION APPLICATIONS

Chair: Beniamino Di Martino, University of Naples II, Naples, Italy

HPC-1-O-LCD

Model Integrity and Distributed Process Interaction Simulation

Hans P.M. Veeke and Jaap A. Ottjes 279

HPC-2-O-LCD

Transparent Distributed Discrete Event Modeling

Jaap A.Ottjes and Hans P.M.Veeke 283

ROOM B- 09.00-10.00

TOOLS

ROBOTICS SIMULATION

Chair: Bruno Fadini, University "Federico II" of Naples, Naples, Italy

TOOLS-2-VISUAL-VCR

VirtualRobot: An open general-purpose simulation tool for Robotics

Martin Mellado, Carlos Correcher, Juan Vicente Catret and David Puig..... 155

METH-15

Sliding mode control applied to mobile robot: Continuous-time and Discrete-time case

M. Hamerlain and T. Alalouche 163

ROOM C- 09.00-10.00

FLUID

FLUID FLOW SIMULATION

Chair: to be announced later

FLUID-2-O-LCD

Simulation of Electric Fields around Transmission Lines for Proximity Prediction

Amruth Sivalenka, Mohammed Saffiudin and Satish Mohan..... 453

Wednesday, 29th October 2003

ANMT-5-FLUID

Modelling of Layered Fluid Flow in a Circular Microchannel

Manisah Aumeerally and Renate Sitte..... 458

ROOM D- 09.00-10.00

GRAPHICS

VR APPLICATIONS

Chair: Philippe Geril, Ghent University, Ghent, Belgium

VISUAL-2

Spline Approximations of Flexible Deformations for Fast Dynamic VR

Visualizations

Kevin Tatur and Renate Sitte 309

A1-2-VISUAL

Automatic 3D Object Placement for 3D Scene Generation

Yoshiaki Akazawa, Yoshihiro Okada and Koichi Nijima..... 316

ROOM E- 09.00-10.00

INTERNET

INTERNET ROOM

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-11.30

EU

MOSAIC-GAMENET AND EUROSIS TC UPDATE MEETING

Chair: Philippe Geril, Ghent University, Ghent, Belgium

This session will give an update on the present work of EUROSIS in European Projects.

ROOM B- 10.30-12.00

BACK-UP SESSION

BACK-UP SESSION

Chair: to be announced later

This session is set up for those authors who could not present their papers in the allocated time-slots.

Wednesday, 29th October 2003

ROOM C- 10.30-12.30

ANMT

ANALYTICAL SIMULATION OF ELECTRONIC CIRCUITS

Chair:

ANMT-6-LCD

Performance Assessment of Two D/A Models when operating on Telecommunication Signals

Leopoldo Angrisani, Massimo D'Apuzzo and Mauro D'Arco..... 429

ANMT-9-LCD

On the Use of Modulated S Parameters for Modeling RF Wideband Amplifiers

Leopoldo Angrisani, Francesco Falanga and Alessandro Masi..... 434

ANMT-13-SL

Numerical Method used for Simulation of Power Electronic Circuit. Modelisation of the Semi-Conductor by Perfect Switches

Faouzi Boulos..... 442

ANMT-12

Information Theoretic Approximations for the M/G/1 Retrial Queue with unreliable Server

A. Aissani and R. Smail 448

ROOM C- 10.30-12.00

GRAPHICS

GRAPHICS VISUALIZATION SIMULATION

Chair: Renate Sitte, Griffith University, Gold Coast, Australia

VISUAL-1

Advanced Accident Flight Path Simulation and Innovative Visual Animation

Domenico P. Coiro, Agostino De Marco and Paolo Leoncini..... 291

VISUAL-3

Simulated Stroboscopic Illumination for Unsynchronized Motion Dynamics

Zhaoyi Li and Renate Sitte..... 298

METH-5

Integration of System Dynamics Models and Geography Information Systems

Stefano Mazzoleni, Francesco Giannino, Marco Colandrea, Massimo Nicolazzo and Jonathan Massheder..... 304

ROOM E- 10.30-12.00

INTERNET

INTERNET ROOM

Wednesday, 29th October 2003

ROOM A 12.30 - 12.45

BEST PAPER

CLOSING SESSION AND BEST PAPER AWARD

Chair: Beniamino Di Martino and Philippe Geril

FROM 2.00 P.M. ONWARDS

Afternoon trip to ancient Stabia, then the Fincantieri (**Cantieri Navali in Castellammare di Stabia**) shipyard in Castellammare followed by a "welcome" from the Major of Castellammare di Stabia, Ersilia Salvato, and Assessore for Culture Emma Giammattei. Followed by dinner at the Tico Tico Restaurant in Castellammare.

**SEE YOU ALL
NEXT OCTOBER AT ESM[®]'2004
IN NAFPLIO, GREECE**

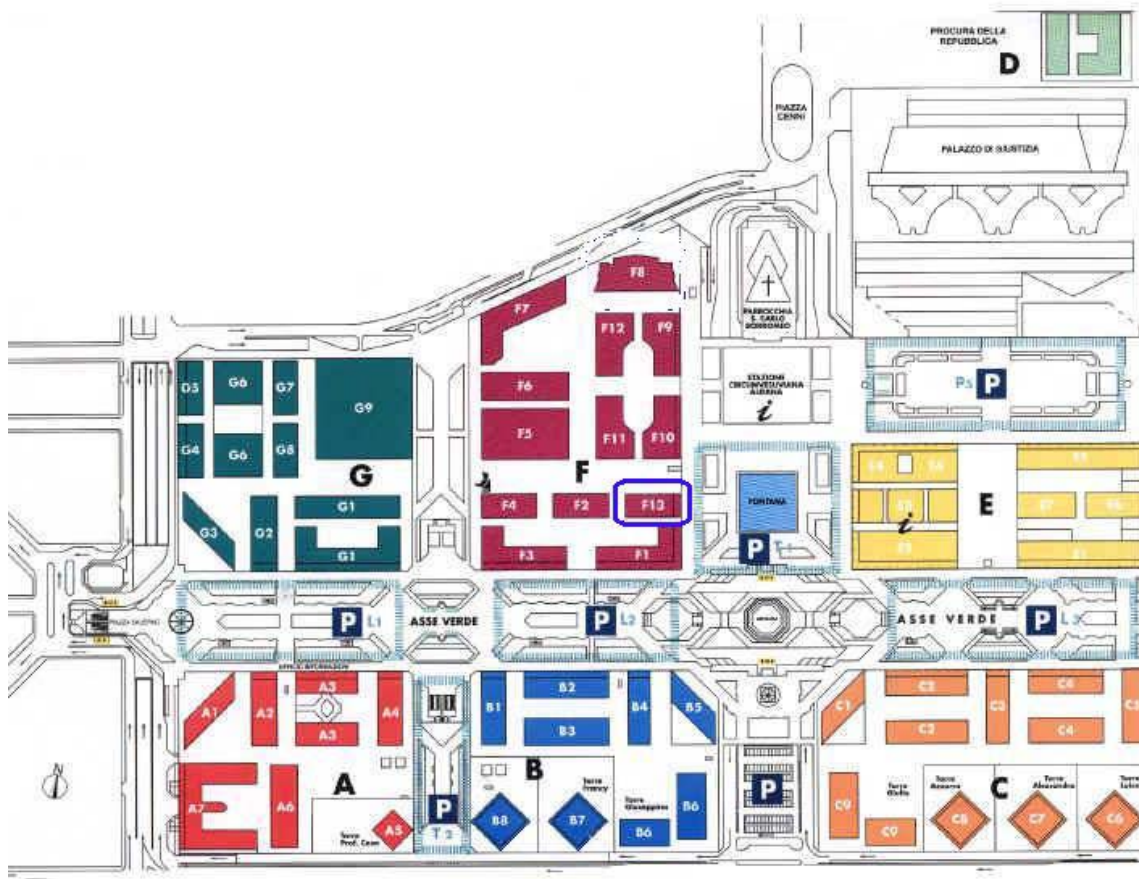
OR AT THE OTHER EUROSIS EVENTS FOR 2004

**FUBUTEC IN FONTAINEBLEAU, FRANCE (MARCH
12-13)**

**EUROMEDIA-ECEC-2004 IN HASSELT, BELGIUM
(APRIL 19-21)**

ISC'2004 IN MALAGA, SPAIN (JUNE 7-9)

Conference Site Maps



Plan of the Conference Area

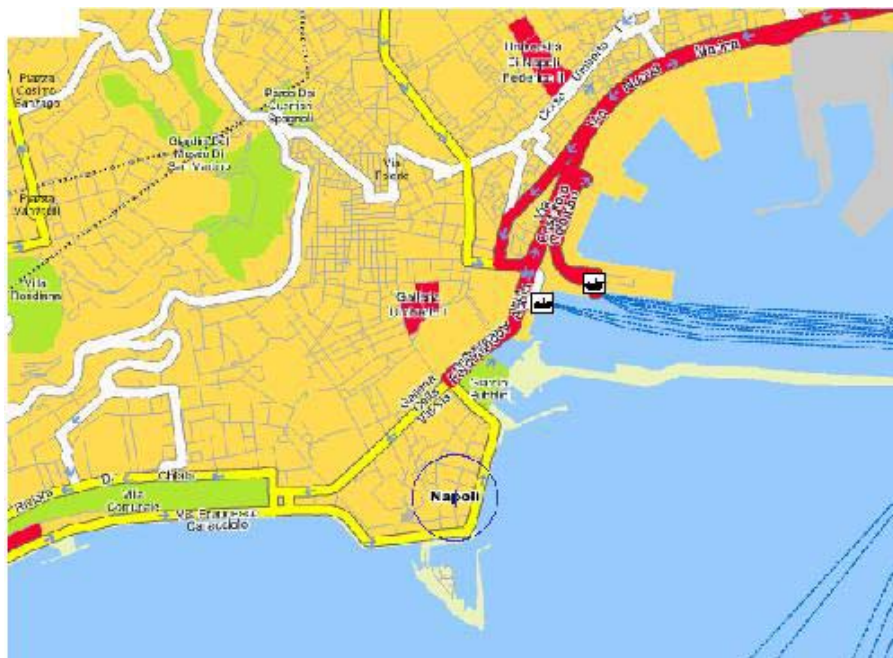
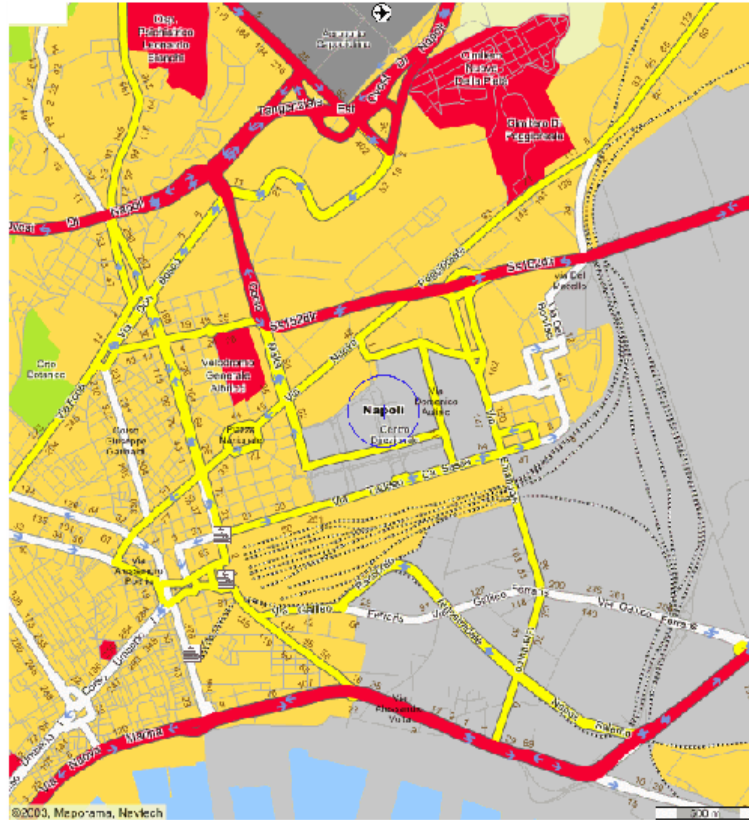
Conference Site Maps



Conference Site Maps

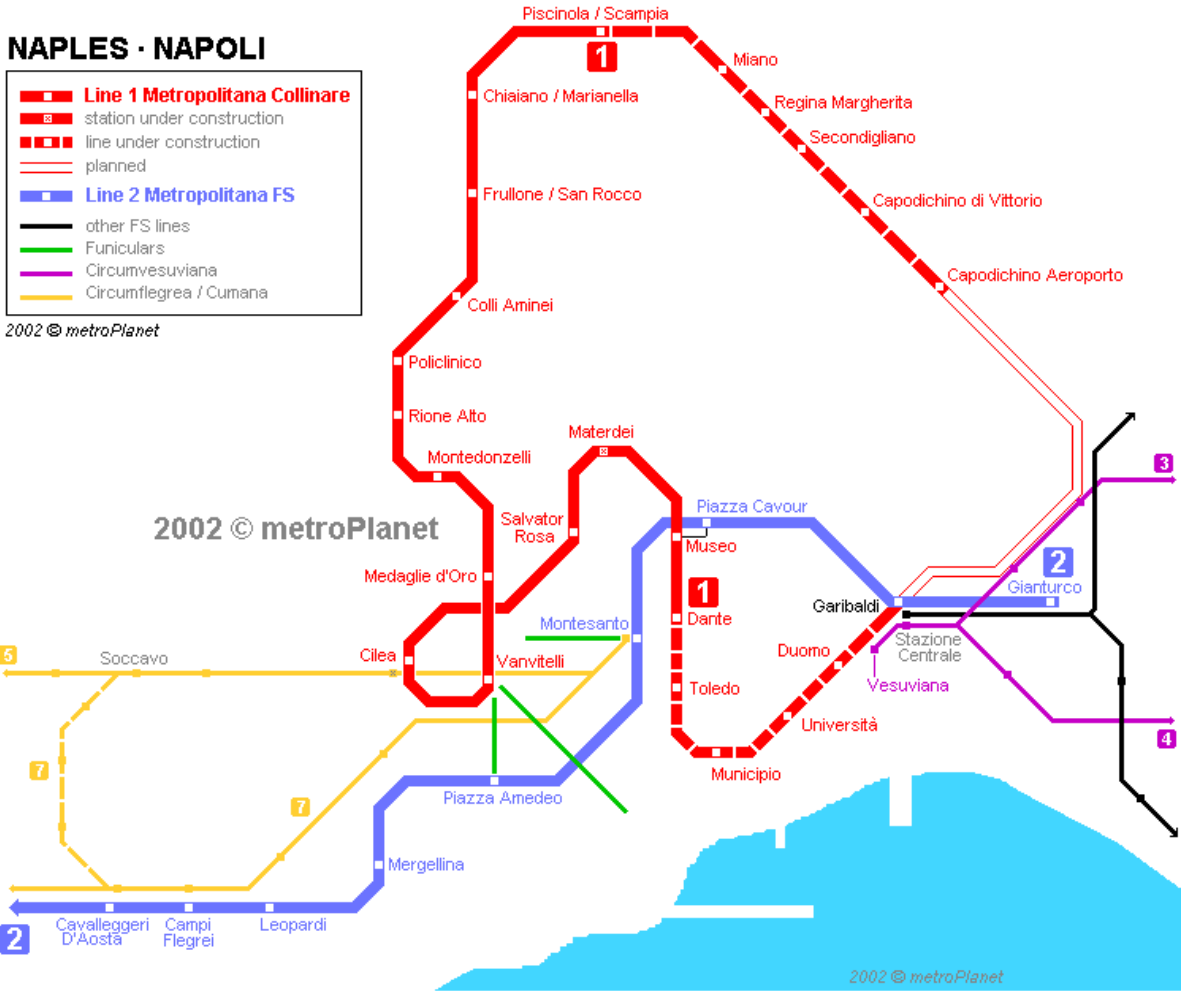


Conference Site Maps



Conference Site Maps

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, EU-GAMENET etc...

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

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