

# Final Program



**25-27, October 2004**



United Nations Educational,  
Scientific and Cultural Organization

**Organized by**



**Co-Sponsored by**



L-UNIVERSITÀ TA' MALTA



UNIVERSITY OF MALTA



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## General Information

### 1. Conference Location

The ESMc conference is held at the main building of UNESCO at 7, place de Fontenoy, 75352 Paris 07 SP France. **General phone number: +33 (0)1 45 68 10 00, Fax number: +33 (0)1 45 67 16 90** The registration desk will be placed near the main entrance on Monday morning onwards, where registration will start from 8.30 till 9.15. After 9.15 a.m.. the desk will be moved to the hallway leading up to the meeting rooms. 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.- 08.45. a.m.

**ALL MAPS ARE AT THE BACK OF THIS PROGRAMME**

### 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

<b>lunch</b>	<b>€ 40</b>
<b>conference dinner:</b>	<b>€ 50</b>

### 4.Registration

The ESM'2004 Registration Desk will be open for information and registration:

**Monday, October 25..... 8.15 a.m. to 5.00 p. m. at the entrance and in the hallway.**

**Tuesday, October 26..... 8.15 a.m. to 5.00 p. m. in the hallway**

**Wednesday, October 27 ..... 8.30 a.m.**

### 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'2004)

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

<b>ESM'2004 Proceedings</b>	<b>50 EURO</b>
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# General Information

## 6. Meeting Rooms

The four meeting rooms will be indicated by EUROSIS signs at the event. The rooms used for the meeting are Rooms VI (A) and VII (B). Hereafter designated in the final programme as ROOM A and B.

## 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 UNESCO

The **Get-Together Party** will be held on Monday evening at UNESCO

**The Conference Dinner**

All participants are invited to the conference dinner on Tuesday the 26th of October. The conference dinner will be held at la Coupole, 102, bd du Montparnasse, F-75014 Paris. Métro : Vavin. Tel: 33 (0)1 43 20 14 20, Fax: 33 (0)1 43 35 46 14.

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

### 10. Other

#### 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'2004 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>**

<b>MONDAY, 25<sup>th</sup> OCTOBER 2004</b>					
<b>08.30-17.00</b>	<b>REGISTRATION</b>				
<b>09.15-10.15</b>	<b>OPENING SESSION AND INVITED SPEECH BY TUDOR NICULIU</b>				
<b>10.15-10.30</b>	<b>COFFEE BREAK</b>				
<b>10.30-12.30</b>	<b>PARALLEL SESSIONS</b>				
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SIMULATION METHODOLOGY I	MARINE ENVIRONMENT SIMULATION				
<b>12.30-13.30</b>	<b>LUNCH BREAK</b>				
<b>13.30-15.00</b>	<b>PARALLEL SESSIONS</b>				
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SIMULATION METHODOLOGY II	BACK-UP SESSION				
<b>15.00-15.30</b>	<b>COFFEE BREAK</b>				
<b>15.30-18.00</b>	<b>PARALLEL SESSIONS</b>				
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SIMULATION METHODOLOGY III	SIMULATION IN BIOLOGY				
<b>18.00 – 19.00 GET-TOGETHER-PARTY at UNESCO</b>					

<b>TUESDAY, 26<sup>th</sup> OCTOBER 2004</b>		
<b>08.30-17.00</b>	<b>REGISTRATION</b>	
<b>09.00-10.00</b>	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>QUEUEING SYSTEMS SIMULATION I</b>	<b>FLUID FLOW SIMULATION</b>
<b>10.00-10.30</b>	<b>COFFEE BREAK</b>	
<b>10.30-12.30</b>	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>QUEUEING SYSTEMS SIMULATION II</b>	<b>AGENT BASED AND NEURAL NET SIMULATION</b>
<b>12.30-13.30</b>	<b>LUNCH BREAK</b>	
<b>13.30-15.00</b>	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>ANALYTICAL AND NUMERICAL MODELLING TECHNIQUES I</b>	<b>TUTORIAL DAVID HILL</b>
<b>15.00-15.30</b>	<b>COFFEE BREAK</b>	
<b>15.30-17.30</b>	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>ANALYTICAL AND NUMERICAL MODELLING TECHNIQUES II</b>	<b>HIGH PERFORMANCE COMPUTING SIMULATION</b>
<b>20.00</b>	<b>CONFERENCE DINNER AT LA COUPOLE</b>	



<b>WEDNESDAY 27<sup>th</sup> OCTOBER 2004</b>		
<b>08.30-08.45</b>	<b>REGISTRATION ROOM A</b>	
<b>09.00 10.00</b>	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>SIMULATION TOOLS I</b>	<b>PETRI NETS I</b>
<b>10.00-10.30</b>	<b>COFFEE BREAK</b>	
<b>10.30 12.00</b>	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>SIMULATION TOOLS II</b>	<b>PETRI NETS II</b>
<b>12.00-12.15</b>	<b>CLOSING SESSION AND BEST PAPER AWARD ROOM A</b>	

# **NOTES**

**Monday, 25<sup>th</sup> October 2004**

**HALLWAY**

**Registration**

**08.30 - 17.00**

**MAIN HALL**

**09.15 - 09.30**

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**Opening ESM<sup>®</sup>2004 and Welcome**

**Welcome Address**

**Dr. Carmen Veronica Bobeanu  
Ghent University  
ESM'2004, General Conference Chair  
Welcome by  
Philippe Geril  
EUROSIS, Ghent University  
EUROSIS Coordinator**

**Welcome**

**Monday, 25<sup>th</sup> October 2004**

**ROOM A**

**09.30 - 10.15**

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**INVITED SPEECH**

**Chair:** Carmen Bobeanu, Ghent University, Ghent, Belgium

**Looking for Intelligent Reconfigurable Simulation**

Tudor Niculiu, Anton Manolescu and Sorin Cotofana ..... **5**

**10.15 - 10.30**

**COFFEE BREAK**

# Monday, 25<sup>th</sup> October 2004

10.30 – 12.30

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ROOM A- 10.30-12.30

METH

METHODOLOGY I

Chair: Alain Tanguy, Universite Blaise Pascal, Aubiere, France

METH-1

Knowledge integrating in Situative modeling System for nature Technical Complexes

Alexander Fridman, Andrey Oleynik and Olga Fridman.....25

METH-7-AGENT

Flexible Hierarchical Architecture of Simulation Models

Norbert Adamko, Valent Klima, Michal Lekýr and Antonin Kavička ..... 30

METH-11

An Open Source Object-Oriented Architecture for discrete event simulation

L. Castelluzzo, A. Grieco, F. Nucci, S. Zacchino and A. Anglani ..... 35

METH-8-GRAPH

A Heuristic Volume Selection in Dimensional Bounding as an Accelerating Technique in a Ray Tracing

D. Benyamina and N.Hallam..... 43

ROOM B- 10.30-12.30

ENV

MARINE ENVIRONMENT SIMULATION

Chair: Cyrille Bertelle, LIH, Le Havre, France

METH-4

Modelling of Solute Dispersion in Estuaries – mathematical Techniques and Computer Implementation

Naghmeh Keshavarzi-Rooniz, Rahim Ghorashi and Vahid Nassehi ..... 159

LO-2

Methodology for Holarchic Ecosystem Model based on Ontological tool

Guillaume Prevost, Pierrick Tranouez, Sylvain Lerebourg, Cyrille Bertelle and Damien Olivier..... 164

BIO-3-ENV

Model of the nitrogen fixation process in Marine Cyanobacteria

Sophie Rabouille, Karline Soetaert and Marc Staal ..... 172

## Monday, 25<sup>th</sup> October 2004

### BIO-6-STUDENT

Towards a Framework for Multi-scale Models of Freshwater Fishes

Nicolas Dumoulin ..... 175

12.30 - 13.30

**LUNCH BREAK**

13.30 – 15.00

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ROOM A- 13.30-15.00

**METH**

**METHODOLOGY II**

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

METH-14

Static and Dynamic Equal opportunity Evaluation

Ignacio J. Benítez, José L. Díez, Juan A. Lacort and Pedro Albertos..... 48

METH-23

Discovery of New Global Minima for Lennard – Jones Atomic Clusters Using TRUST Simulations

Jacob Barhen, Vladimir Protopopescu, Gabriel Amselem, Julien Dahan

Christopher Randall and Zachary Vane..... 53

METH-17

A simulation Based Value Stream Mapping Formal Method for Lean Implementation: Atoms, Database and Model generator

Yang-Hua Lian and Hendrik Van Landeghem..... 58

ROOM B- 13.30-15.00

**BACK-UP**

**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.

15.00 - 15.30

**COFFEE BREAK**

# Monday, 25<sup>th</sup> October 2004

15.30 – 18.00

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ROOM A- 15.30-17.00

METH

METHODOLOGY III

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

**METH-13**

Partitioning and Modular Code Synthesis for Reconfigurable mechatronic Software Components

Sven Burmester, Holger Giese, Alfonso Gambuzza and Oliver Oberschelp ..... 66

**METH-18**

A Dynamic Type Changes Model for Adaptive Simulation Environments based on Virtual Machine Meta Model

Cristina Mîndrută ..... 74

**METH-5**

A methodology to reduce the design lifecycle of real-time embedded control systems

Remy Kocik and Yves Sorel ..... 79

ROOM B- 15.30-18.00

BIO

SIMULATION IN BIOLOGY

Chair: Jens Kohlmeyer, University of Ulm, Ulm, Germany

**BIO-2**

Motor Output Variability in a Joint Control Systems – A Simulation Study

Oliver Straub, Wolfgang Mader, Jessica Ausborn and Wolfgang Stein..... 135

**BIO-4**

Combining Simulated Biological Components to achieve a Powerful Simulation Environment

Michael Schmid and Jens Kohlmeyer ..... 140

**BIO-8**

Neural Network Based Model to Flow Cytometric Data Interpretation

G.C. Pereira, A. Bonomo and N.F.F.Ebecken ..... 143

**BIO-13**

Analog Modulation of Digital Computation in Nerve Cells Simulating the Stomatogastric Nervous System of the Crab

Wolfgang Stein and Jessica Ausborn ..... 148

## Monday, 25<sup>th</sup> October 2004

BIO-11

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Sara Bertolino, Stefano Pasinato and Giorgio Romanin-Jacur..... 153

18.00 – 19.00

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RESTAURANT- 18.00-19.00  
GET-TOGETHER-PARTY AT UNESCO

**SOCIAL**



Tuesday, 26<sup>th</sup> October 2004

HALLWAY

Registration

08.30 - 17.00

09.00 – 10.00

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ROOM A- 09.00-10.00

METH

QUEUEING SYSTEMS SIMULATION I

Chair: J. Manuel Feliz Teixeira, University of Porto, Portugal

METH-10

Combination and Interworking of Traffic Flow Analysis and Event Driven  
Discrete Event Simulation

Gábor Lencse..... 89

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Eugene Kindler, Ivan Křivý, Philippe Lacomme and Alain Tanguy ..... 94

ROOM B- 09.00-10.00

FLUID

FLUID FLOW SIMULATION

Chair: to be announced later

FLUID-1

CANDU Steam Generators Modeling Using CompGen for MMS Package

Ilie Prisecaru, Daniel Dupleac and Adrian Constantinescu ..... 301

METH-21-FLUID

Modelling of Layered Microfluid Flow in Conical Nozzle and Diffuser

Manisah Aumeerally and Renate Sitte..... 306

10.00 - 10.30

COFFEE BREAK

Parallel Sessions - Tuesday

## Tuesday, 26<sup>th</sup> October 2004

10.30 - 12.30

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**ROOM A- 10.30-12.00** **METH**  
**QUEUEING SYSTEMS SIMULATION II**  
**Chair: J. Manuel Feliz Teixeira, University of Porto, Portugal**

**TOOLS-2-WEB**  
**Visual Dynamic Modeling of Transport Flows For Electronic Business Problems**  
Anatoly Levchenkov and Andrew Mor-Yaroslavtsev..... 99

**METH-20**  
**On Measuring the Supply Chain Flexibility**  
J. Manuel Feliz Teixeira and António E. S. Carvalho Brito ..... 103

**METH-3**  
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Erland Hejn Nielsen ..... 313

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**AGENT BASED AND NEURAL NET SIMULATION**  
**Chair: Alexandre Nketsa, University of Toulouse, France**

**AGENT-4-STUDENT**  
**A tool for supporting the Development of Correct Mobile Applications based on Higher Order  $\pi$ -Calculus**  
Andreea Barbu ..... 247

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Eugeniusz M. Sroczan and Andrzej Urbaniak..... 257

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Joël Colloc and Cyrille Bertelle..... 325

# Tuesday, 26<sup>th</sup> October 2004

12.30 - 13.30  
LUNCH BREAK

13.30 - 15.00

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ROOM A- 13.30-15.00 ANMT  
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Chair: Carmen Bobeanu, Ghent University, Ghent, Belgium

ANMT-1  
Stiffness Modelling of Rubber Engine Mounts by Polynomial Neural Networks  
and Genetic Algorithms  
N. Nariman-zadeh, J. Marzbanrad and A. Jamali..... 181

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Person Centered Simulation of Product Development using Timed Stochastic Coloured  
Petri Nets  
Torsten Licht, Lothar Dohmen , Peter Schmitz, Ludger Schmidt  
and Holger Luczak..... 188

ANMT-5  
Queueing networks models of out-patient clinics and hospitals  
Bogusław Filipowicz and Joanna Kwiecień ..... 196

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TUTORIAL  
Chair: David Hill, Universite Blaise Pascal, Aubiere Cedex, France

TUT  
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David R.C.Hill ..... 15

15.00 - 15.30  
COFFEE BREAK

# Tuesday, 26<sup>th</sup> October 2004

15.30 - 17.30

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**ROOM A- 15.30-17.30** **ANMT**  
**ANALYTICAL AND NUMERICAL MODELLING TECHNIQUES II**  
**Chair: Andrzej Urbaniak, Poznan Univ. of Technology, Poland**

**ANMT-7**  
**Evaluation of Flows in Communication Networks with different Mechanisms for Support of Quality of Service**  
**Daniela Traczinski, Wolfram Luther, Nicola Ehling and Gerhard Haßlinger ..... 201**

**ANMT-8**  
**Performance Evaluation of Software Architectures with Queuing Network Models**  
**Simonetta Balsamo Roberto Mamprin and Moreno Marzolla ..... 206**

**ANMT-10**  
**Performance Evaluation of OADR Mechanism using Non-Markovian SPN**  
**Mohamed Escheikh, Jouda Maatoug and Kamel Barkaoui ..... 214**

**ANMT-11**  
**Modeling Distributed Supervisory Systems using a Modular Multi-Formalism Methodology**  
**Mauro Iacono, Stefano Marrone, Nicola Mazzocca and Francesco Moscato ..... 220**

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**HIGH PERFORMANCE COMPUTING SIMULATION**  
**Chair: David Hill, Universite Blaise Pascal, Aubiere cedex, France**

**HPCN-1**  
**Combining GLOBUS and MOSIX for MPI Calculations**  
**Adam Kozakiewicz, Andrzej Karbowski and Krzysztof Malinowski ..... 229**

**HPCN-2**  
**Load Balancing for a Parallel Joint Diagonalization of Symmetric Matrices**  
**Ales Holobar, Milan Ojstersek and Damjan Zazula ..... 234**

**HPCN-3**  
**A Web Based Approach to distribute simulation based fault injections campaign**  
**Miguel Mateo Pla, David de Andres, Juan Carlos Baraza, Lenin Lemus and Pedro Gil ..... 239**

**Tuesday, 26<sup>th</sup> October 2004**

**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 dinner is held at**

**La Coupole**

**102, bd du Montparnasse**

**75014 Paris**

**Métro : Vavin**

**TEL: 33 (0)1 43 20 14 20**

**FAX: 33 (0)1 43 35 46 14**

**Parallel Sessions - Tuesday**

# Wednesday, 27<sup>th</sup> October 2004

## ROOM A

Registration

08.30 - 08.45

09.00 – 10.00

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ROOM A- 09.00-10.00

**TOOLS**

**SIMULATION TOOLS I**

Chair: Eugeniusz Sroczan, Poznan Univ. of Technology, Poland

TOOLS-4

Extending Scicos from system to component level simulation

Masoud Najafi, Azzedine Azil and Ramine Nikoukhah ..... 111

TOOLS-6

An I/O Simulator for Windows Systems

Jalil Boukhobza and Claude Timsit ..... 116

ROOM B- 09.00-10.00

**PETRI**

**PETRI NETS SIMULATION I**

Chair: Carmen Bobeanu, Ghent University, Ghent, Belgium

PETRI-1

Tolerance analysis Approach with Interval Constrained Petri Nets

S. Collart Dutilleul, H. Dhouibi and E. Craye ..... 265

PETRI-4

Multilayer decomposition of Stochastic Petri Nets and Algebraic specifications

Nabila Salmi and Malika Ioualalen ..... 272

10.00 - 10.30

**COFFEE BREAK**

# Wednesday, 27<sup>th</sup> October 2004

10.30 - 12.30

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**ROOM A- 10.30-12.00**

**TOOLS**

**SIMULATION TOOLS II**

**Chair: Ramine Nikoukhah, INRIA, Le Chesnay Cedex, France**

**TOOLS-11-EDU**

**DACSIM: A Data Acquisition Card Simulator**

**Antonio Martí, Salvador Coll, Marina Alonso and Juan Jose Serrano ..... 122**

**TOOLS-9**

**JARA 2i – A MODELICA Library for Interactive Simulation of Physical Chemical Processes**

**Carla Martin, Alfonso Urquia and Sebastian Dormido ..... 128**

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**Performance Evaluation in Steel Manufacturing: A Case Study with Simulation**

**Adil Bellabdaoui ..... 320**

**ROOM B- 10.30-12.00**

**PETRI**

**PETRI NETS SIMULATION II**

**Chair: Carmen Bobeanu, Ghent University, Ghent, Belgium**

**PETRI-5**

**Evaluation of maintenance process of electrical power plants, using Petri Nets**

**Vrassidas Leopoulos, Charalampos Tsogkas, Evaggelos Champilomati and Konstantinos Kirytopoulos ..... 280**

**PETRI-7**

**Towards the automated Construction of Multi-Component Petri Nets Models of Supply Chains**

**Carmen Veronica Bobeanu and Hendrik Van Landeghem ..... 284**

**PETRI-8-STUDENT**

**Generating Coloured Petri Nets of Concurrent Object-oriented Programs**

**Cecile Bui Thanh ..... 289**

Parallel Sessions - Wednesday

**Wednesday, 27<sup>th</sup> October 2004**

**PETRI-12**

**Simulation and detection of some properties of hybrid system based Differential Predicate-Transition Petri Nets by means of VHDL-AMS**

**A. Nketsa, J.C. Pascal, D. Andreu and P. Esteban..... 294**

**ROOM A 12.30 - 12.45**

**BEST PAPER**

**CLOSING SESSION AND ESM'2004 BEST PAPER AWARD**

**Chair: Philippe Geril, Ghent University, Ghent, Belgium**

**SEE YOU ALL  
NEXT OCTOBER AT ESM<sup>®</sup>'2005  
AT THE UNIVERSITY OF PORTO, IN PORTO,  
PORTUGAL**

**OR AT THE OTHER EUROSIS EVENTS FOR 2005**

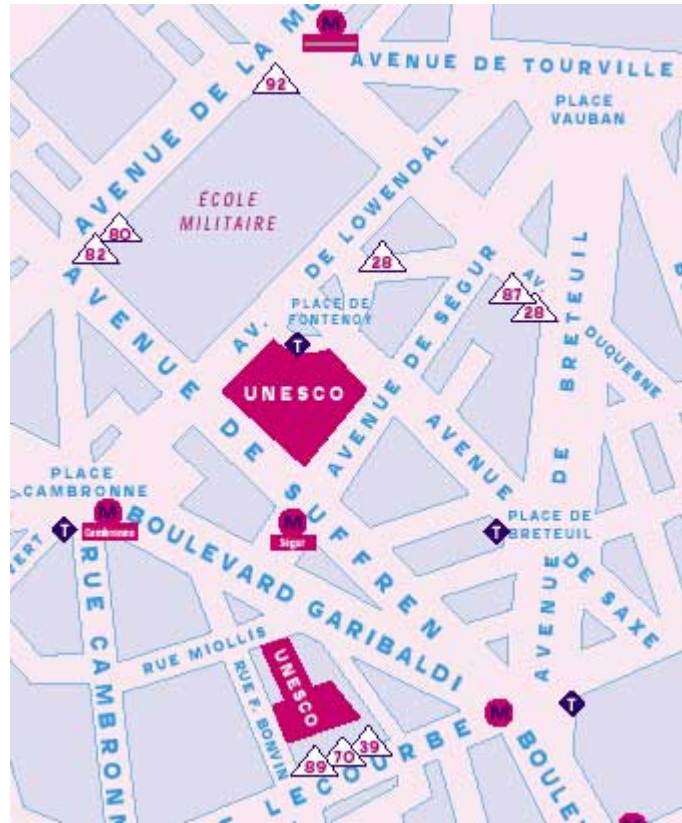
**FUBUTEC AT INSEAD IN FONTAINEBLEAU,  
FRANCE (MARCH 11-12)**

**EUROMEDIA-ECEC-2005 AT THE UNIVERSITY PAUL  
SABATIER IN TOULOUSE, FRANCE (APRIL 11-13)**

**ISC'2005 AT THE FRAUNHOFER INSTITUTE, IN  
BERLIN, GERMANY (JUNE 9-11)**



## Conference Site Maps

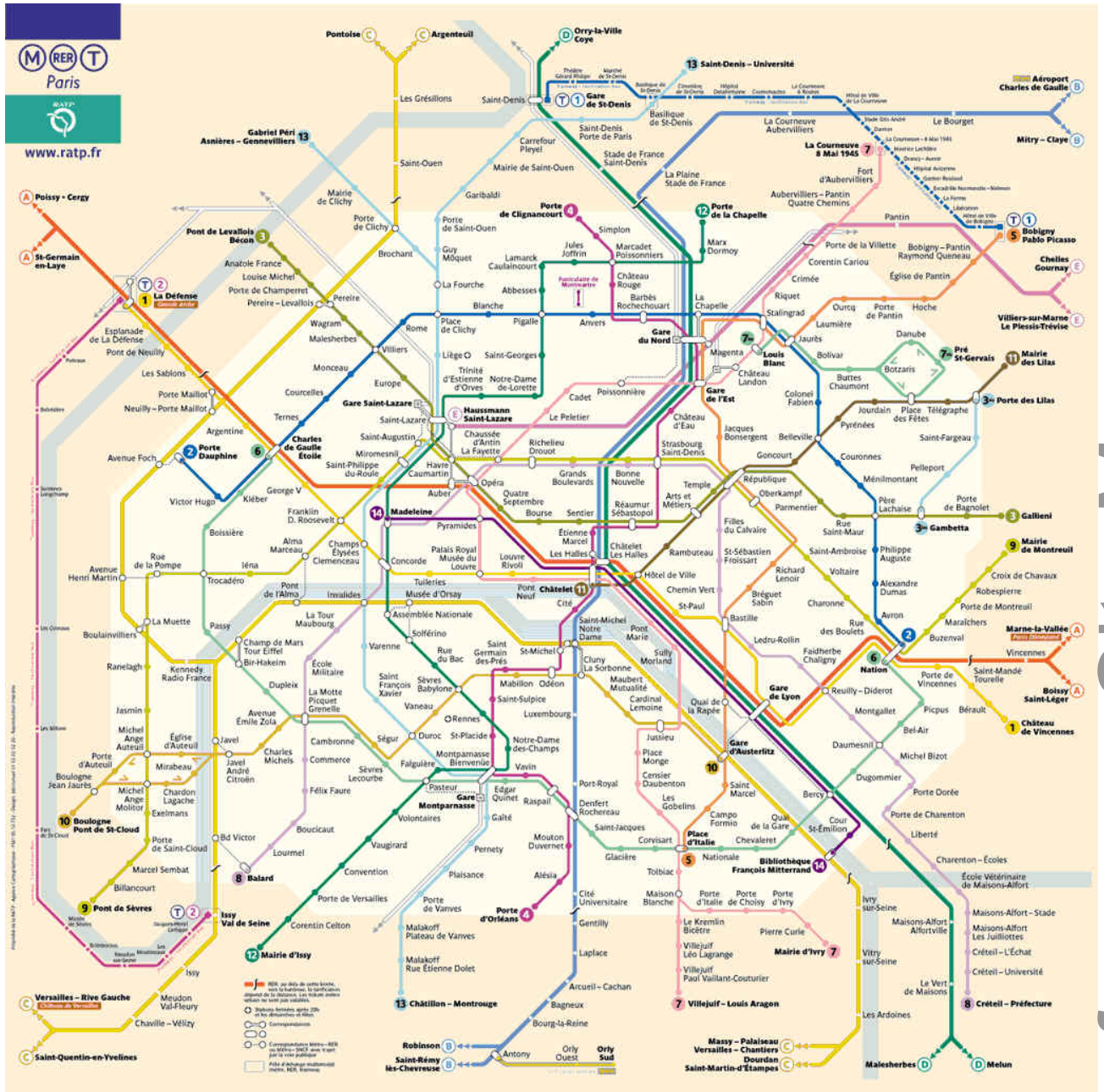


**Plan of the Conference Area**  
**The ESM2004 Entrance will be at the UNESCO**  
**entrance at Place De Fontenoy**

# Conference Site Maps



# Conference Site Maps



PARIS Metro Map

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, etc...

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

**Philippe Geril**  
**EUROSIS-SIM CENTRE**  
**Ghent University**  
**Coupure Links 653**  
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