

FINAL PROGRAM



23-25 October 2006



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General Information

1. Conference Location

The Conference is being held at

LAAS-CNRS (in the main building)

7, avenue du Colonel Roche
31077 Toulouse Cedex 4, France

Telephone : +33.5 61 33 62 00

Fax : +33.5 61 55 35 77

Email: laas-contact@laas.fr

The registration desk will be placed in the hallway of the main building of LAAS from Monday morning October the 23 onwards, where registration will start at 08.15 and will end at 17.00. On Tuesday October 24th registration will be from 8.30 a.m. - 3.00 p.m. with Wednesday registration only from 8.30 a.m.- 9.00. a.m.

ALL MAJOR MAPS ARE AT THE BACK OF THIS PROGRAMME

The airport is located about ten minutes by car from the city centre.

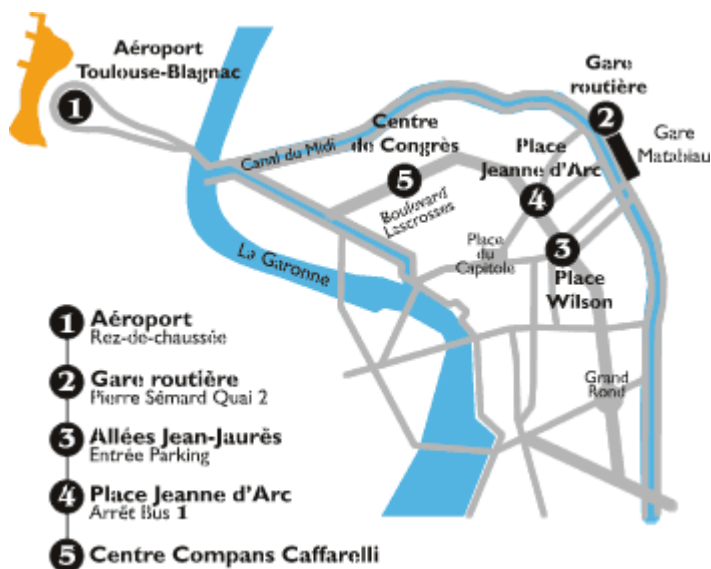


A **shuttle service** is organised between the airport and the centre of Toulouse. Departure is from door C on the ground floor.

The shuttle frequency is every 20 minutes from 6h30 to 23h00.

The one way ticket fare is **4 EURO..**

Airport Shuttle: <http://www.navettevia-toulouse.com/>



Route of the Airport Shuttle Bus

General Information

The usual cost for a taxi from the Toulouse Blagnac Airport to the city center and the hotels is about 25 EURO during weekdays, but the price is higher at night and on the weekends.

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

Extra conference dinner	€60
Extra lunch ticket	€20

4. Registration

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

Monday, October 23 8.15 a.m. to 5.00 p. m.
Tuesday, October 24 8.30 a.m. to 3.00 p. m.
Wednesday, October 25 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 **(ESM'2006)**)

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

ESM'2006 Proceedings CASH AND CARRY	€50
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6. Meeting Rooms

The meeting rooms are designated A-B-C and D. The way to the rooms will be signposted. An Internet room will be available.

General Information

7. Need Help?

Please see the conference desk for your questions

8. Social Events and Lunches

All registrants are invited to

All **lunches** and **Coffee Breaks** are served at LAAS

The Conference Dinner

All participants are invited to the conference dinner on **TUESDAY** the 24th of October. As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Tuesday lunchtime.**

The conference dinner will be held in the centre of Toulouse on the 24th of October at



**Les Caves de la Marechale,
3, rue Jules Chalande**

Tel: +33.5 61 23 89 88 from 8.00 p.m. onwards.

We will meet at 7.45 in front of the Town Hall at the main gate on the Place de la Capitole (the main square in Toulouse) and will walk as a group to the restaurant.

General Information

9. Visit



A guided visit is envisaged on Tuesday the 24th of October to TAXIWAY, where participants will be able to visit the AIRBUS A380 on the **CIRCUIT JEAN LUC LAGARDERE SITE A380**. The participants who pre-registered will be the only ones which will be able to make the visit.

10. Room Legend

The following rooms will be used for the conference:

Every conference day: "salle de Conférence" and in addition,

Monday: rooms "Vignemalle", "Tourmalet" and "Bardeen"

Tuesday: rooms "Vignemalle", "Tourmalet" and "Europe"

Wednesday: rooms "Vignemalle", "Tourmalet" and "Europe"

11. 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'2006 conference.

12. Shuttle Buses

2 Buses will be available to the participants to take them to and from LAAS. They will leave in the morning from 2 locations: The Novotel Toulouse Centre and the Ibis Centre Hotel. (see on the hotel information page)

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://www.eurosis.org>

MONDAY, 23rd OCTOBER 2006				
08.15-17.00	REGISTRATION			
09.00-09.15	OPENING SESSION IN LA SALLE DES CONFERENCES –ROOM D			
09.15-10.00	KEYNOTE ADDRESS BY MARWAN AL-AKAIDI, DE MONTFORT UNIVERSITY, UK			
10.00-10.30	COFFEE BREAK			
10.30-12.30	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	INTRODUCTION TO COMPLEX SYSTEMS SIMULATION AND MODELLING	SIMULATORS	SIMULATION DYNAMICS IN ECOLOGY AND BIOLOGY	BACK-UP SESSION
12.30-14.00	LUNCH BREAK			
14.00-15.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	COMPLEX SYSTEMS SIMULATION AND MODELLING	WEB BASED SIMULATION	AGENT BASED TUTORIAL PART I	PATH PLANNING
15.00-15.30	COFFEE BREAK			
15.30-18.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	GIS AND COMPLEXITY	AGENT BASED SIMULATION METHODOLOGY	SEMICONDUCTOR MANUFACTURING	HIGH PERFORMANCE COMPUTING
18.30 FREE EVENING				

TUESDAY, 24th OCTOBER 2006				
08.30-15.00	REGISTRATION			
09.00-10.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	EMOTION MODELLING	RESOURCE FLOW AND PLANNING MODELLING I	PROCESS SIMULATION WITH AGENTS	PETRI NETS FORMALISM I
10.00-10.30	COFFEE BREAK			
10.30-12.30	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	SIMULATION AND PRODUCTION SYSTEMS	RESOURCE FLOW AND PLANNING MODELLING II	AGENT BASED NEGOTIATION	PETRI NETS FORMALISM AND SIMULATION
12.30-14.00	LUNCH BREAK			
14.00-15.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	ECOLOGICAL MODELLING	SIMULATION METHODOLOGY	CROWD AND GROUP SIMULATION	PETRI NETS SIMULATION
15.00-15.30	COFFEE BREAK			
15.30-17.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
		FLUID FLOW SIMULATION	AGENT BASED SIMULATION IN BIOLOGY	BACK-UP SESSION
20.00 – 23.00	CONFERENCE DINNER			

WEDNESDAY, 25th OCTOBER 2006				
08.30-09.00	REGISTRATION			
09.00 10.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	DECISION BASED SIMULATION	ANALYTICAL SIMULATION IN COMMUNICATIONS	BIOLOGICAL SIMULATION	EUROSIS MEMBER MEETING
10.00-10.30	COFFEE BREAK			
10.30 12.30	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	COLLECTIVE INTELLIGENCE SIMULATION	APPROXIMATION AND EVALUATION SIMULATION	MODELING OPERABILITY	FP 7 MEETING
12.30-12.45	CLOSING SESSION AND BEST PAPER AWARD ROOM A			

Monday, 23rd October 2006

HALLWAY

Registration

08.15 - 17.00

MAIN HALL

09.00 – 10.00

Opening ESM'2006 and Welcome

Welcome Address

Professor Malik Ghallab
Head of LAAS CNRS

Alexandre Nketsa
LAAS-CNRS
ESM2006 General Conference Chair

Philippe Geril
EUROSIS, Ghent University
EUROSIS Coordinator

09.15 – 10.00

KEYNOTE SPEECH

Chair: Alexandre Nketsa, LAAS-CNRS, Toulouse, France

The Wireless and Mobile Revolution: Signal Processing as the Way Forward
Marwan Al-Akaidi

Welcome

Monday, 23rd October 2006

10.00 - 10.30

COFFEE BREAK

10.30 – 12.30

ROOM A- 10.30-12.30

COMPLEX

INTRODUCTION TO COMPLEX SYSTEMS MODELLING

Chair: Cyrille Bertelle, University of Le Havre, Le Havre, France

INVITED SPEECH

Complexity, Control and Self-Organization

Michel Cotsaftis

COMPLEX-02

Holistic Metrics, a Trial on Interpreting Complex Systems

J. Manuel Feliz-Teixeira and António E. S. Carvalho Brito 385

COMPLEX-06

**Simulating Dynamic Behaviours in Complex Organisations: case study
application of a well structured modelling approach**

M Zhen and R H Weston 390

COMPLEX-13

Different Goals in Multiscale Simulations and how to reach them

Pierrick Tranouez and Antoine Dutot..... 399

ROOM B- 10.30-12.00

SIMULATORS

SIMULATORS

Chair: Jean-Claude Pascal, LAAS-CNRS, Toulouse, France

GRAPH-03

An Approach to Virtual-Lab Implementation using Modelica

Carla Martin, Alfonso Urquia and Sebastian Dormido 137

METH-11

**An Integrated Vehicular and Network Simulator for Vehicular Ad-Hoc
Networks**

Cristian Gorgorin, Victor Gradinescu, Raluca Diaconescu, Valentin Cristea and Liviu
Iftode 142

Monday, 23rd October 2006

COMPLEX-01

Concept of “hands on “training for Spacecraft Operations

Christian D. Bodemann, Joachim Ochs, Carol Quirke and Roberto Palmari 150

ROOM C- 10.30-12.00

ECO-BIO

SIMULATION DYNAMICS IN ECOLOGY AND BIOLOGY

Chair: Alexandre Nketsa, LAAS, CNRS, Toulouse, France

BIO-03

**Micro-Gen: An Agent-Based Model of Bacteria-Antibiotic Interactions
in Batch Culture**

James T. Murphy and Ray Walshe..... 239

ENV-03

**Water Anoxia and Species Selection in Lagoons: An Analysis of
Ecosystem Dynamics**

Francesco Cioffi and Giovanni Cannata 243

ENV-01

Modelling the Fight against Forest Fires by Means of a Numerical Battlefield

Yves Dumond 251

ROOM D- 10.30-12.30

BACK-UP

BACK-UP SESSION

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.

12.30 - 14.00

LUNCH BREAK

Parallel Sessions - Monday

Monday, 23rd October 2006

14.00 – 15.00

ROOM A- 14.00-15.00

COMPLEX

COMPLEX SYSTEMS MODELLING

Chair: Gerard H E. Duchamp, Univ. Paris Nord, Villetaneuse, France

COMPLEX-05

Optimization in Packaging and Real Estate

William C. Conley 404

COMPLEX-23

Invariant Manifolds of complex systems

Jean-Marc Ginoux and Bruno Rosseto..... 408

ROOM B- 14.00-15.00

WEB

WEB BASED SIMULATION

Chair: Hamid Demmou, LAAS-CRNS, Toulouse, France

WEB-01

Integration of Web Based Simulators in the SINPL Platform

Alberto Coen-Porisini, Ignazio Gallo and Antonella Zanzi 259

WEB-02

GROUPSIM: Extending a Simulation Groupware to allow Interoperability

Celso M. Hirata; Tony Calleri França, Vakulathil Abdurahiman and Germano de Souza Kienbaum 264

ROOM C- 14.00-15.00

PATH PLANNING

PATH PLANNING AND COGNITIVE MAPS

Chair: Khader Sahraoui, LAAS-CNRS, Toulouse, France

METH-02-AI

Path Planning for UAVs using Symbiotic Simulation

Farzad Kamrani, Marianela Garcia Lozano and Rassul Ayani 207

Monday, 23rd October 2006

AI-04

Action Selection in Robots Based on Learning Fuzzy Cognitive Map and Analysis of Variance

Ali Azadeh, Koosha Golmohammadi and Amirhossein Gharehgozli 214

ROOM D- 14.00-15.00

TUTORIAL

AGENT BASED MODELLING AND SIMULATION PART I

Laszlo Gulyas

15.00 - 15.30

COFFEE BREAK

15.30 - 18.00

ROOM A- 15.30-17.30

COMPLEX

GIS AND COMPLEXITY

Chair: Michel Cotsaftis

COMPLEX-16

The Evolution process of Geographical Data Base within self-organized topological propagation area

Hakima Kadri-Dahmani, Cyrille Bertelle, G rard H.E. Duchamp and

Aomar Osmani..... 415

COMPLEX-17

Self-organization simulation over Geographical Information System based on multi-agent platform

Rawan Ghnemat, Cyrille Bertelle and G rard H.E. Duchamp 420

COMPLEX-18

Cliff Collapse Hazards spatio-temporal Modelling through GIS : from Parameters determination to multi-scale Approach

Anne Duperret, Cyrille Bertelle and Pierre Laville..... 425

COMPLEX-22

Structural and dynamic Complexities of Risk and Catastrophe Systems: An Approach by System Dynamics Modelling

Damienne Provitolo 430

Monday, 23rd October 2006

ROOM B- 15.30-18.00

AI

AI BASED SIMULATION METHODOLOGY

Chair: Alexandre Nketsa, LAAS-CNRS-, Toulouse, France

AI-06

Game Analysis by means of Simulation

Roland Angerer and Helge Hagenauer 177

AI-01

**Simulation Based Optimisation using Global Search and Neural Network
Metamodels**

Anna Persson, Henrik Grimm and Amos Ng 182

GRAPH-01

**Optimization by extension-restriction neighborhood in local search application
to graph coloring problem**

Isabelle Devarenne, Hakim Mabed and Alexandre Caminada 187

AI-02

**Experimental Based Modeling and Pareto Optimization of Indirect Injection Diesel
Engines**

K. Atashkari, N. Nariman-zadeh, A. Jamali and İ. Çelikten 192

AI-03

Supervised Fuzzy Control in the Simulation of Manufacturing Systems

Karim Tamani, Reda Boukezzoula and Georges Habchi 200

ROOM C- 15.30-17.30

HPCN

HIGH PERFORMANCE COMPUTING SIMULATION

Chair: Jean-Claude Pascal, LAAS-CNRS, Toulouse, France

HPCN-01

Performance Analysis for High-Precision Interconnect Simulation

R. Heinzl, M. Spevak, P. Schwaha, T. Grasser and S. Selberherr 113

HPCN-02

**Developing a Meta Methodology Supporting the Application of Parallel
Simulation**

László Muka and Gábor Lencse 117

Monday, 23rd October 2006

HPCN-03-DEVS

Exploratory Modeling with Smalldevs

Vladimir Janousek and Elod Kironsky 122

HPCN-05

DISTME: A Generic Toolkit for Stochastic Simulation Distribution

Romain Reuillon and David R.C. Hill 127

ROOM D- 15.30-17.30

TUTORIAL

AGENT BASED MODELLING AND SIMULATION PART I

Laszlo Gulyas

**THE ESM2006 SHUTTLE BUSES WILL PICK UP THE PARTICIPANTS AT LAAS
TO TAKE THEM BACK TO THE CITY CENTRE AT 18.15**

FREE EVENING

Parallel Sessions - Monday

Tuesday, 25th October 2006

HALLWAY

Registration

08.30 - 15.00

09.00 – 10.00

ROOM A- 09.00-10.00

COMPLEX

EMOTION MODELLING

Chair: Gerard H. E. Duchamp, Univ. Paris Nord, Villetaneuse, France

COMPLEX-12

Simulation of emotional Processes in Decision Making

Karim Mahboub 459

COMPLEX-21

Emotions: Theoretical Models and Clinical Implications

Sophie Baudic and Gerard H E Duchamps 464

ROOM B- 09.00-10.00

METH

RESOURCE FLOW AND PLANNING MODELLING I

Chair: Philippe Esteban, LAAS-CNRS, Toulouse, France

GRAPH-06

Event simulation of supply chain networks – Dynamic detailing in the material flow simulator d³FACT insight

Wilhelm Dangelmaier, Mark Aufenanger, Kiran Mahajan, Christoph Laroque and Daniel Huber..... 50

METH-06

The Model of Wood Resource Flow

Janis Oss..... 47

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AGENTS

PROCESS SIMULATION WITH AGENTS

Chair: Mario Paludetto, LAAS-CNRS, Toulouse, France

METH-03-PETRI-AGENT

Agent-Based Modeling of Processes and Scenarios with High Level Petri Nets

Timo Steffens, Thomas Zöller and Philipp Hägelmeyer..... 323

Tuesday, 24th October 2006

AGENT-11

Formal Infrastructure for Verification of Epistemic Properties of Multi-Agent Systems

M. Bagic and M. Kunstic..... 328

ROOM D- 09.00-10.00

PETRI NETS

PETRI NETS FORMALISM

Chair: Carmen Bobeanu, Ghent University, Ghent, Belgium

PETRI-05

Petri Net - based project scheduling methods: advantages and shortcomings

Konstantinos Kirytopoulos, Viktor Diamantas, Vrassidas Leopoulos and Christos Dimadis 335

PETRI-03

Painted Petri Net and Functional Abstraction to Visualize Dynamic Modeling

Simon Hardy and Pierre N. Robillard..... 340

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.30

COMPLEX

SIMULATION AND PRODUCTION SYSTEMS

Chair: Cyrille Bertelle, University of Le Havre, Le Havre, France

COMPLEX-15

Complex Systems Dynamics in an Economic Model with Mean Field Interactions

Gianfranco Giulioni 491

COMPLEX-03

Complexity of Traffic Interactions: Improving Behavioural Intelligence in Driving Simulation Scenarios

Abs Dumbuya, Anna Booth, Nick Reed, Andrew Kirkham, Toby Philpott, John Zhao and Robert Wood..... 497

Parallel Sessions - Tuesday

Tuesday, 24th October 2006

COMPLEX-07

An Integrative Simulation Model for Project Management in Chemical Process Engineering

Bernhard Kausch, Nicole Schneider, Morten Grandt and

Christopher Schlick..... 501

COMPLEX-19

Detection and reification of emerging systems in population dynamic simulations using interaction networks and genetic algorithms: a way to exploit Individual-Based Models

Guillaume Prevost and Cyrille Bertelle 471

ROOM B- 10.30-12.30

METH

RESOURCE FLOW AND PLANNING MODELLING II

Chair: Khader Sahraoui, LAAS-CNRS, Toulouse, France

METH-05

Modelling Methodology and Simulation of a Hospital Laundry

Michel Gourgand, Fateh Mebrek and Alain Tanguy 55

BIO-05

A Queueing Network Model of Patient Flow in an Accident and Emergency Department

S.W.M. Au-Yeung, P.G. Harrison and W.J. Knottenbelt 60

BIO-04

A Capacity Planning Simulation Model and its Application to a Nuclear medicine Service

Rob Cameron, Robert E Dugdale and Michael J. Page 68

ENV-02

Multiagent System for Flow Management in Complex Systems: Development of a Decision Support System in Epidemiology

Alexandre Weber, Daniel Dupont, Anne Follet, Philippe Kubiak and

Ahmed Rahmani..... 73

ROOM C- 10.30-12.30

AGENTS

AGENT BASED NEGOTIATION AND ACTORS

Chair: Alexandre Nketsa, LAAS-CNRS, Toulouse, France

AGENT-03

Simulation of an Agent-based MarketPlace

Maria João Viamonte, Isabel Praça, Carlos Ramos and Zita Vale 285

Tuesday, 24th October 2006

AGENT-06

**An Approach of Agent Based Distributed Simulation for Supply Chains:
Negotiation Protocols between Collaborative Agents**

El Habib Nfaoui, Omar El Beqqali, Yacine Ouzrout and Abdelaziz Bouras 290

AGENT-09

**Agent Based VS Nested Simulation for supporting On-Line Teller
Scheduling in Groceries Supermarket Distribution: A Case Study**

Roberto Revetria, Cinzia Forgia and Alessandro Catania 296

AGENT-05

Agent Based Simulation Architecture augmented by Actors

Norbert Adamko and Valent Klima 305

ROOM D- 10.30-12.30

PETRI NETS

PETRI NETS FORMALISM AND SIMULATION

Chair: Carmen Bobeanu, Ghent University, Ghent, Belgium

PETRI-06

**A Meta-modeling Approach for Sequence Diagrams to Petri Nets
Transformation within the requirements validation process**

Adel Ouardani, Philippe Esteban, Mario Paludetto and Jean-Claude Pascal 345

PETRI-07

State Class Graph for Fuzzy Time Petri Nets

J. Cardoso, Xiaoyu Mao and Robert Valette 350

PETRI-04

Hybrid Simulation for Critical Scenario Derivation

N. Sadou and H. Demmou 361

PETRI-01

Efficient enabling Test in Simulation of SWN

Lorenzo Capra and Massimiliano De Pierro 367

12.30 - 14.00

LUNCH BREAK

Parallel Sessions - Tuesday

Tuesday, 24th October 2006

14.00 - 15.00

ROOM A- 14.00-15.00

COMPLEX

NATURAL ECOSYSTEMS MODELLING

Chair: Pierrick Tranouez, University of Le Havre, Le Havre, France

COMPLEX-20

Model and simulation engineering in the field of ecology using web and ontology and XML

Guillaume Prevost and Cyrille Bertelle 478

COMPLEX-09

Application of homotopy perturbation method for ecosystems modelling

Zaid Odibat and Cyrille Bertelle 483

ROOM B- 14.00-15.00

METH

SIMULATION METHODOLOGY

Chair: Mario Paludetto, LAAS-CNRS, Toulouse, France

METH-01

A formal Method for the Sequential untimed Subset of SystemC

Primrose Mbanefo, Wolfgang Raab and Pierre Wodey 5

PETRI-09

Simulation Validity Assessment tailoring with UML

V.Albert, A.Nketsa and M.Paludetto 8

ROOM C- 14.00-15.00

AGENT

CROWD AND GROUP SIMULATIONS

Chair: Khader Sahraoui, LAAS-CNRS, Toulouse, France

AGENT-02

Emotions on Agent Based Simulators for Group Formation

Goreti Marreiros, Paulo Novais, José Machado, Carlos Ramos and

José Neves 310

AGENT-07

Time and Space Management in Crowd Simulation

Benoit Lacroix, Philippe Mathieu and Sebastien Picault 315

Tuesday, 24th October 2006

ROOM D- 14.00-15.00

PETRI NETS

PETRI NETS SIMULATION

Chair: Philippe Esteban, LAAS-CNRS, Toulouse, France

PETRI-08

ESA_PetriNet tool: Extraction Scenarios & Analyzer by Petri Net model

Application to the extraction of feared scenarios in a landing gears system

Malika Medjoudj, Hamid Demmou and Robert Valette 375

PETRI-10

**Reducing Complexity in the Systematic Construction of Petri Nets Models
through Graph Transformations**

Carmen Veronica Bobeanu and Hendrik Van Landeghem 521

15.00 - 15.30

COFFEE BREAK

15.15 – DEPARTURE TO AIRBUS FOR A GROUP OF 47 PEOPLE
(this was decided on the first-in basis of the registrations received)
The list of participants will be posted at the registration desk. The
other participants will be taken back to Toulouse centre after the
last sessions finish at LAAS at 17.15 in the 2nd bus.

15.30 – 17.00

ROOM B- 15.30-17.00

FLUID

FLUID FLOW SIMULATION

Chair: Jean-Claude Pascal, LAAS-CNRS, Toulouse, France

FLUID-04

Thermohydraulic Modeling and Analysis of CANDU Shutdown Cooling System

Ilie Prisecaru, Daniel Dupleac and Niță Iulian 164

FLUID-02

Solubility of Toxic Compounds from Petroleum Spills into Seawater

M. R. Riaz and Y. M. Al-Roomi 169

FLUID-03

Investigation of Flow Dynamics in Porous Media using Computer Simulation

Arezou Jafari, S. Mohammad Mousavi, Piroz Zamankhan, Kari Pietarinen and
Pertti Sarkomaa 157

Tuesday, 24th October 2006

ROOM B- 15.30-16.30

AGENT

AGENT BASED SIMULATION IN BIOLOGY

Chair: Hamid Demmou, LAAS-CNRS, Toulouse, France

AGENT-01

Analysis of the relative importance of the humoral versus the cellular response during the acute stage of HIV infection: Results from multi-agent computer simulations

Ashley Callaghan, Heather J. Ruskin and Ray Walshe 271

AGENT-08-BIO-PETRI

Simulation of Attentional Networks in the Brain – an Agent Based Approach

Terje Kristensen and Jørgen Johansen 277

THE ESM2006 SHUTTLE BUSES WILL PICK UP THE PARTICIPANTS TO TAKE THEM BACK TO THE CITY AT 17.15

CONFERENCE DINNER – 20.00 -23.00

**Les Caves de la Marechale,
3, rue Jules Chalande**

Tel: +33.5 61 23 89 88 from 8.00 p.m. onwards.

We will meet at 7.45 in front of the Town Hall at the main gate on the Place de la Capitole (the main square in Toulouse) and will walk as a group to the restaurant.

Wednesday, 25th October 2006

HALLWAY

Registration

08.30 - 09.00

09.00 – 10.00

ROOM A- 09.00-10.00

METH

DECISION BASED SIMULATION

Chair: Hamid Demmou, LAAS-CNRS, Toulouse, France

METH-15

The Application PLA for Creation Simulation Models for Decision Making

H.Pranevicius, V.Pilkauskas and D. Makackas 37

METH-16

The Simulation of the economic Effect of Power System Structure including Renewable Sources of Energy

Eugeniusz M. Sroczan..... 42

ROOM B- 09.00-10.00

ANALYT

ANALYTICAL AND NUMERICAL SIMULATION IN COMMUNICATIONS

Chair: Khader Sahraoui, LAAS-CNRS, Toulouse, France

ANMT-01

Differential Modeling and its Application to TCP/IP

H. Hassan, J-M.Garcia and C. Bockstal 101

ANMT-06

Transient Analysis of Semi-Markovian Switching Systems in Telecommunication Networks

Gerhard Hasslinger and Sebastian Kempken..... 106

ROOM C- 09.00-10.00

BIO

BIOLOGICAL SIMULATION

Chair: Jean-Claude Pascal, LAAS-CNRS, Toulouse, France

Wednesday, 25th October 2006

BIO-01

Geometric Hierarchical Data Organisation in the Modelling of the Cerebellum

Omar Bennani, P. Chauvet, F. Jouen and G.A. Chauvet 223

BIO-02

Development of a Cardiovascular Model with Baroreceptor Reflex

Jinhuai Lin, Derek G Tilley and Roger F Ngwompo..... 229

ROOM D- 09.00-10.00

EUROSIS

EUROSIS MEMBER MEETING

At this meeting an update will be given about EUROSIS plus an in depth overview of the new EUROSIS website and its applications for the members.

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.30

COMPLEX

COLLECTIVE INTELLIGENCE AND NEURAL LEARNING

Chair: Pierrick Tranouez, University of Le Havre, Le Havre, France

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Multiobjective Optimization using Ant Colonies

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Self-organization in an artificial immune Network System

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On Adapting Neural Networks to Cellular Manufacturing

Dania A. El-Kebbe and Christoph Danne 450

Wednesday, 25th October 2006

ROOM B- 10.30-12.00

ANALYT

APPROXIMATION AND EVALUATION SIMULATION

Chair: Mario Paludetto, LAAS-CNRS, Toulouse, France

ANMT-03

Reliability Based Pareto Optimum Design of Robust Compensators for a Dynamic System with Parametric Uncertainty

Nader Nariman-zadeh, Amir Hajiloo, Ali Jamali, Ahmad Bagheri and

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Generating Simulation Input with Approximate Copulas

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METH

MODEL INTEROPERABILITY

Chair: Philippe Esteban, LAAS-CNRS, Toulouse, France

METH-08

Process Interaction Diagrams for Structured Discrete Event Simulation Modeling

Acácio M. O. Porta Nova 19

METH-07

Contextual Testing of Interactive Product Simulations for New Generation Products

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Wednesday, 25th October 2006

ROOM D- 10.30-12.00

FP-7-MOSAIC

Preparatory meeting to send in a proposal for an NoE on Simulation for the FP-7

ROOM A 12.30 - 12.45

BEST PAPER

CLOSING SESSION AND BEST PAPER AWARD

Chair: Alexandre Nketsa and Philippe Geril

THE ESM2006 SHUTTLE BUSES WILL PICK UP THE PARTICIPANTS at LAAS TO TAKE THEM BACK TO THE CITY AT 13.00

**SEE YOU ALL
OCTOBER 2007
IN MALTA
FOR ESM'2007
at the WESTIN hotel**

Track proposals and tutorial proposals can be sent in by January 30th, 2007

CONFERENCE HOTELS

The following hotels are those from which the shuttle busses will depart to ESM'2006	
IBIS Centre ** 2, rue Claire-Pauilhac Tel: +33 (0)5 61 63 61 63 Fax: +33 (0)5 61 63 07 46 www.ibishotel.com	Monday-Thursday 73 EUR Friday-Sunday 55 EUR
NOVOTEL TOULOUSE Centre Compans Caffarelli 5, Place Alfonse Jourdain Tel: +33.(0)5.61.21.74.74 Fax: +33.(0)5.61.22.81.22 www.novotel.com H0906@accor-hotels.com	Sunday-Tuesday 135 EUR Wednesday-Saturday 129 EUR

Departure times of the shuttle busses

Monday October 23

Morning: Novotel Toulouse Centre: 7.45
 Hotel Ibis Centre: 8.00 (around corner, on the Place Jeanne d'Arc)
 Arrival at LAAS: 8.30-8.45
Evening: departure LAAS: 18.15 for the city centre

Tuesday October 24

Morning: Novotel Toulouse Centre: 8.00
 Hotel Ibis Centre: 8.15 (around corner, on the Place Jeanne d'Arc)
 Arrival at LAAS: 8.30-8.45
Afternoon: Departure to AIRBUS of bus 1: at 15.15. Arrival AIRBUS: 16.00.
 Departure to Toulouse centre: 18.00
 Departure from LAAS of bus 2: at 17.15 for the City Centre

Wednesday October 25

Morning: Novotel Toulouse Centre: 8.00
 Hotel Ibis Centre: 8.15 (around corner, on the Place Jeanne d'Arc)
 Arrival at LAAS: 8.30-8.45
Lunch time: Departure from LAAS to city centre at 13.00

Conference Site Maps

CENTRE OF TOULOUSE

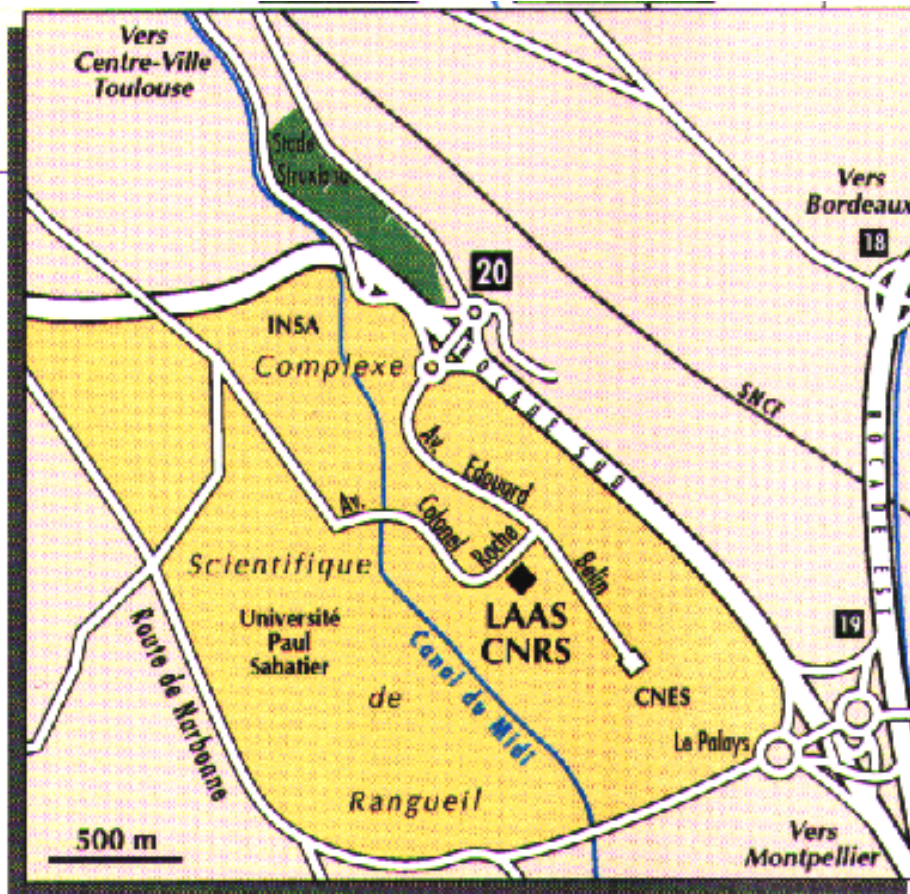


Conference Site Maps



Conference Site Maps

LAAS PLAN



Conference Site Maps

Conference Site Maps

LOCATION OF ALL THE HOTELS

TOULOUSE Centre - Ville





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.

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

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EUROSIS Info