

FINAL PROGRAM



27-29 October 2008



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General Information

1. Conference Location

The Conference is being held at

The **ESM'2008** conference is held at the [University of Le Havre](#).

UFR des Sciences et Techniques
25 rue Philippe Lebon
76600 LE HAVRE

Tel: +33 232 744 373

Fax: +33 232 744 314

Claire Roussin, the LITIS lab secretary:
mobile Cyrille Bertelle: +33 614 050 077

The registration desk will be placed in the hallway of the **second floor of the University** from Monday morning October the 27th onwards, where registration will start at 08.00 and will end at 5.00 p.m.. On Tuesday October 28th registration will be from 8.30 a.m. - 5.00 p.m. with Wednesday registration only from 8.30 a.m.- 9.30. a.m. The way to the conference and desk will be signposted.

ALL MAJOR 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

Extra conference dinner	€50
Extra lunch ticket	€20

4. Registration

The ESM'2008 Registration Desk will be open for information and registration:

Monday, October 27..... 8.00 a.m. to 5.00 p. m.
Tuesday, October 28..... 8.30 a.m. to 5.00 p. m.
Wednesday, October 29..... 8.30 a.m. to 9.30 a.m.

The location of the registration desk will be signposted

General Information

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'2008**)

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

ESM'2008 Proceedings CASH AND CARRY	€50
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6. Meeting Rooms

The meeting rooms are designated A-B-C-D and E. The way to the rooms will be signposted. WIFI-Internet is available. All participants will get a personal log-in at the registration desk.

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 the **Université du Havre**, as well as the **get-together-party**

Visit to Etretat

The bus to Etretat will leave in front of the University at 3.15 p.m. and return at about 6.30 p.m. There are 49 places available and preference will be given to those people who pre-registered for this trip.

The Conference Dinner

All participants are invited to the conference dinner on **TUESDAY** the 28th of October. As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Monday evening.**

The **conference dinner** will be held in Honfleur at the Restaurant de la Ferme de la Grande Cour (further information can be found in the programme on page 25)

We will meet at 7.30p.m. in front of the University at the main entrance where we will walk as a group to the coaches which are parked in the parking area, and which will take us to the conference dinner site, and back.

General Information

9. Room Legend

The meeting rooms will be designated ROOM A B C D and E .Signposts will indicate each room.

10. 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'2008 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://www.eurosis.org>**

MONDAY, 27th OCTOBER 2008

08.00-17.00	REGISTRATION				
09.00-09.15	OPENING SESSION AND WELCOME BY				
09.15-10.00	KEYNOTE ADDRESS BY DENISE PUMAIN ROOM A				
10.00-10.30	COFFEE BREAK				
10.30-12.30	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	SOFTWARE TOOLS	ELECTRONICS SIMULATION	EMERGENCY RISK MANAGEMENT I	STOCHASTIC PETRI NETS MANAGEMENT	MIMOSA ONTOLOGIES
12.30-14.00	LUNCH BREAK				
14.00-15.00	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	MICHEL COTSAFTIS TUTORIAL	SIMULATION IN EDUCATION	SIMULATION IN BIOLOGY	PARALLEL PROCESSING I	SIMEXPLORER TUTORIAL
15.00-15.30	COFFEE BREAK				
15.30-18.00	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	EVALUATION AND CLASSIFICATION TOOLS	ARTIFICIAL SOCIETY I	EMERGENCY RISK MANAGEMENT II	PETRI NETS MODELS	MIMOSA DYNAMICAL BEHAVIORAL SYSTEMS
17.30 18.30 GET-TOGETHER-PARTY					

TUESDAY, 28th OCTOBER 2008

08.30-17.00	REGISTRATION				
09.00-10.00	KEYNOTE ADDRESS BY ALADDIN AYESH ROOM A				
10.00-10.30	COFFEE BREAK				
10.30-12.30	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	MODELLING METHODS IN INDUSTRY	ARTIFICIAL SOCIETY II	AGENT BASED SIMULATION I		GRAPHSTREAM
12.30-14.00	LUNCH BREAK				
13.30-15.00	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	FLUID FLOW SIMULATION	ARTIFICIAL SOCIETY III	AGENT BASED SIMULATION II	INDUSTRIAL APPLICATIONS	
15.00-15.30	COFFEE BREAK				
15.30-17.30	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	VERIFICATION VALIDATION AND OPTIMIZATION	PARALLEL PROCESSING II	BACK-UP SESSION	BEHAVIOURAL AI AND NEURAL NETWORKS	
20.00 – 23.00	CONFERENCE DINNER IN HONFLEUR				

WEDNESDAY, 29th OCTOBER 2008

08.30-09.30	REGISTRATION				
09.00 10.00	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	BEHAVIOURAL METHODOLOGY	SIMULATION MODELLING AND DATA- MANAGEMENT IN RTS I	AI TECHNIQUES		
10.00-10.30	COFFEE BREAK				
10.30 12.30	PARALLEL SESSIONS				
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
	MODEL REFINEMENT	SIMULATION MODELLING AND DATAMANAGEMENT IN RTS II	COMPLEX SYSTEMS SIMULATION		MASS (Multi-Agent Simulation Suite)
12.30-12.45	CLOSING SESSION AND BEST PAPER AWARD ROOM A				

Notes

NOTES

Monday, 27TH October 2008

HALLWAY

Registration

08.00 - 17.00

ROOM A

09.00 – 10.00

Opening ESM'2008 and Welcome

Welcome Address

M.A. Aziz-Alaoui

Vice-President for Research Development of the University of Le Havre

Cyrille Bertelle

University of Le Havre

ESM2008 General Conference Chair

09.15 – 10.00

KEYNOTE SPEECH

Chair: Cyrille Bertelle, Université du Havre, Le Havre, France

Spatial Simulation and Complex Systems

Denise Pumain

Welcome

Monday, 27th October 2008

**10.00 - 10.30
COFFEE BREAK**

10.30 – 12.30

ROOM A- 10.30-12.30 **METH**

SOFTWARE TOOLS

Chair: David Hill, Université Blaise Pascal, Aubiere Cedex, France

TOOLS_01

Dispatching Independent Railway Simulations with DIRS: A simple RSH Based Tool

Damien Feillée, David Hill and Gilles Dessagne..... **107**

TOOLS_05

Simulation for an Operator's Decisions in SCADA

Andrzej Urbaniak **112**

TOOLS_07

From Design with SYSML to VHDL-AMS Simulation

Jean Verries, Mario Paludetto and Abd-El-Kader Sahraoui..... **115**

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Paulo Almeida, Paulo Novais and José Neves **121**

ROOM B- 10.30-12.00

ANALYTICAL

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Chair: Gerrit Janssens, Hasselt University, Diepenbeek, Belgium

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Analysis of waiting times in cellular mobile systems with retrials and guard channels

M.J. Lopez-Herrero..... **369**

ANMT_09

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Benny M Nyambo, Gerrit K. Janssens and Wim Lamotte..... **373**

Monday, 27th October 2008

ANMT_01

Distribution of the successful and blocked events in the M/G/ 1 retrial queue

J. Amador 385

ROOM C- 10.30-12.30

RISK

EMERGENCY RISK MANAGEMENT I

Chair: Damien Olivier, Université du Havre, le Havre, France

AGENT_06

Revealing the impact of information provision on disaster relief operations by means of agent-based modeling and simulation

Gerald Lichtenegger and Siegfried Voessner 511

RISK_05

DT-MANETs for Rescue Information Service

Julien Franzolini, Frédéric Guinand and Damien Olivier 516

RISK_04

The Simulation of the Procedure for Multiattribute Choice of the Structure of the Power Plants in the Power System

Eugeniusz M. Sroczan 521

RISK_06

Modeling of the Vulnerability related to the Dynamic Road Traffic

Cyrille Bertelle, Antoine Dutot, Michel Nabaa, Damien Olivier and

Pascal Mallet 524

ROOM D- 10.30-12.30

PETRI

STOCHASTIC PETRI NETS MANAGEMENT

Chair: Dimitri Lefebvre, Université du Havre, le Havre, France

ANMT_02

From BCMP Queueing Networks to generalized Stochastic Petri Nets:
An Algorithm and an Equivalence Definition

Simonetta Balsamo and Andrea Marin 447

PETRI_01

Timed Stochastic Petri Net Models Identification for Simulation and Reliability Analysis

Souleiman Ould El Medhi, Edouard Leclercq and Dimitri Lefebvre 456

Monday, 27th October 2008

METH_05
Object Oriented Petri Nets Usage in Project Portfolio Modeling Domain
Šárka Květoňová and Vladimir Janousek..... 467

METH_06
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Šárka Květoňová and Dušan Kolář 473

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MIMOSA ONTOLOGIES
Chair: Jean-Pierre Müller, LIRRM, Montpellier, France

Tutorial on MIMOSA-PART I

12.30 - 14.00
LUNCH BREAK

14.00 – 15.00

ROOM A- 14.00-15.00 **TUT**
COMPLEX SYSTEMS
Chair: Michel Cotsaftis, LACSC-ECE, Paris, France

What makes a System Complex? An Approach to self-organization and emergence

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SIMULATION IN EDUCATION
Chair: TBA

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Pietro Colombo and Alberto Coen-Porisini..... 360

Monday, 27th October 2008

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Chair: Gilles Bernot, CNRS, Sophia-Antipolis, France

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Gilles Bernot, Jean-Paul Comet and Zohra Khalis..... 423

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Chair: Remy Courdier, Université du Havre, Le Havre, France

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Rudolf Marek and Miroslav Skrbek 327

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Bipin Kumar, Martin Crane and Yan Dealure 348

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SIMEXPLORER
Chair: Thierry Faure, CEMAGREF, Aubiere cedex, France

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15.00 - 15.30
COFFEE BREAK

Monday, 27th October 2008

15.30 - 18.00

ROOM A- 15.30-17.30 **METH**

EVALUATION AND CLASSIFICATION TOOLS

Chair: David Hill, Université Blaise Pascal, Aubiere Cedex, France

TOOLS_03

A Multiscale Simulation Environment for Performance Evaluation of high reliable heterogeneous Communication Networks

Andreas Lewandowski, Ralf Burda, Sebastian Subik and Christian Wietfeld..... 131

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Mireya Rodríguez, José A. Cortés, Manuel Díaz, Daniel Garrido and

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ARTIFICIAL SOCIETY I

Chair: Michel Cotsaftis, LACSC-CIRAD, Montpellier, France

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Paul Richmond and Daniela M. Romano 213

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Modeling Pedestrians Movement regarding Road Crossing Compliance

Carlos O. Pretto; Helena B. B. Cybis and Paula Ariotti..... 221

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A General Framework for Routing Problems in Real Traffic Conditions

Michelle Chabrol, Michel Gourgand and Patrice Leclaire 230

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Alfredo Cutolo, Raffaella Frattaruolo and Luigi Rarità..... 238

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Chair: Damien Olivier, Université du Havre, Le Havre, France

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PETRI

PETRI NETS MODELS

Chair: Dimitri Lefebvre, Université du Havre, Le Havre, France

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Franco Cicirelli, Angelo Furfaro and Libero Nigro 479

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Continuous Approximation of PEPA Models and Petri Nets

Vashti Galpin 492

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ROOM E- 15.30-18.00

TUT

MIMOSA DYNAMICAL BEHAVIORAL SYSTEMS

Chair: Jean-Pierre Müller, LIRMM, Montpellier, France

Tutorial on MIMOSA-PART II

17-30 – 18.30

GET-TOGETHER-PARTY
At the University of Le Havre

Tuesday, 28th October 2008

HALLWAY

Registration

08.30 - 17.00

09.00 – 10.00

ROOM A- 09.00-10.00

AI

KEYNOTE SPEECH

Chair: Cyrille Bertelle, Université du Havre, Le Havre, France

Multi-agent Modelling and Applications to robotics and cognition

Aladdin Ayesh

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.00

METH

MODELLING METHODS IN INDUSTRY

Chair: Michel Cotsaftis, LACSC-ECE, Paris, France

METH-03

Modelling of compaction and residence times in continuous cooking

application

Miika Uusitalo and Timo Ahvenlampi 45

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Sönke Duckwitz, Torsten Licht, Peter Schmitz and Christopher M. Schlick 66

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Chair: Aladdin Ayesh, De Montfort University, Leicester, United Kingdom	

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Quality of Service in Healthcare Units

José Machado, António Abelha, Paulo Novais, João Neves and José Neves 291

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Marco Remondino and Marco Pironti 299

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TUT

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Chair: Antoine Dutot and Yoann Pigné, Université du Havre, France

Tutorial on the use of Graphstream

12.30 - 14.00

LUNCH BREAK

14.00 - 15.00

ROOM A- 14.00-15.00

FLUID

FLUID FLOW SIMULATION

Chair: Damien Olivier, Université du Havre, le Havre, France

FLUID_01

Water Hammer in Nuclear Installations Case Study in Feed Water System

Ilie Prisecaru, Daniel Dupleac and Niță Iulian Pavel 433

FLUID_03

Mathematical Models for Hydraulic Calculation and Optimization of Communal Waternets

Lucyna Bogdan and Jan Studzinski 438

Tuesday, 28th October 2008

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ARTIFICIAL SOCIETY III
Chair: Cyrille Bertelle, Universite du Havre, Le Havre, France

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Multiple Virtual Command Centres for Controlling Physically Distant Set of Robots: Next Generation of Telepresence
G. Al-Hudhud 267

COMPLEX_11
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 Patrice Langlois, Dominique Goyat and Bernard Elissalde 581

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Chair: Aladdin Ayesh, De Montfort University, Leicester, United Kingdom

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M. Arfi, B. Ould M Lemine and C. Selmi..... 307

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AGENT_10
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 B. Nguyen and M. Rempel 317

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Chair: Fadi Thabtah, Philadelphia University, Amman, Jordan

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Timo Ahvenlampi and Miika Uusitalo 161

AI_07
Interactive Simulation System for Testing Washing Machine Designs
Carla Martin-Villalba, Alfonso Urquia, Sebastian Dormido and Félix Martínez..... 168

Tuesday, 28th October 2008

15.00 - 15.30 COFFEE BREAK

The bus will leave for ETRETAT at 3.15 from the parking area. Those of you who have pre-registered will be given priority boarding. There are 49 places available. Return is envisaged at 6.30 p.m.

15.30 – 17.30

ROOM A- 15.30-17.00 METH VERIFICATION, VALIDATION AND OPTIMIZATION Chair: Claude Duvallet, Université du Havre, Le Havre, France

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A Graph-Based Approach to Verification and Validation of Simulation Models and Applications
Zhongshi Wang and Axel Lehmann 14

METH_04
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Jaroslav Sklenar, Valerie Cutajar and Milan Ceska..... 19

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Lazar Kirchev and Vasil Georgiev 332

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Tuesday, 28th October 2008

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Nicolas Sebastien, Remy Courdier, Didier Hoareau and Marc-Philippe Huget 343

PAR_06
Modeling and Simulation of Advanced Floating Body z-Ram Memory Cells
Viktor Sverdlov and Siegfried Selberherr 380

ROOM C- 15.30-17.00 **BACK-UP**
BACK-UP SESSION
Chair: TBA

This session is set up for those authors who are unable through circumstances beyond their control to give their presentation in the allotted time slot. If there are any presentations in this session they will be posted at the conference on the conference notice board.

ROOM D- 15.30-17.00 **AI**
BEHAVIOURAL AI AND NEURAL NETWORKS
Chair: Fadi Thabtah, Philadelphia University, Amman, Jordan

AI_15
Simulating and Monitoring Ambient Assisted Living
 Davide Carneiro, Ricardo Costa, Paulo Novais, João Neves, José Machado and José Neves 175

AI_01
A Simulation-Based Model of Abduction
Gildas Morvan, Daniel Dupont and Philippe Kubiak 183

AI_03
Grammatical Evolution for Development of Neural Networks with Real Valued Weights using Cellular Encoding
Jan Drchal and Miroslav Snorek 191

THE ESM2008 SHUTTLE BUSES WILL PICK UP THE PARTICIPANTS AT THE ENTRANCE OF THE UNIVERSITY ON THE PARKING AREA LEAVING AT 7.30 P.M.

Tuesday, 28th October 2008

CONFERENCE DINNER – 20.00 -23.00



Hotel Ferme de la Grande Cour
Cote de Grace
14600 Honfleur
France
☎Tel: +33.231.89.04.69
☎Fax: +33.231.89.27.29
info@fermedelagrandecour.com
<http://www.fermedelagrandecour.com/>



THE SHUTTLE BUSES WILL RETURN THE PARTICIPANTS AT 23.30 TO THE UNIVERSITY

Conference Dinner - Tuesday

Wednesday, 29th October 2008

HALLWAY

Registration

08.30 - 09.30

09.00 – 10.00

ROOM A- 09.00-10.00 **METH**

BEHAVIOURAL METHODOLOGY

Chair: Daniel David, Université du de la Reunion, France

METH_14

On the Use of Association Rule and Clustering in Student Progression

Kifaya S.Qaddoum 89

METH_15

Executing UML 2 Diagrams in ActiveCharts - A formal Semantics for the Combination of Behavior Specifications in the UML 2

Jens Kohlmeyer 94

ROOM B- 09.00-10.00

RTS

SIMULATION MODELLING AND DATAMANAGEMENT IN RTS I

Chair: Bruno Sadeg, Université du Havre, Le Havre, France

TOM_01

RTDS: A component and Aspect-based Real-Time Database System Simulator

Leila Baccouche and Sami Limam 551

TOM_04

A Fault Tolerant Replication Control Protocol for Distributed Real-Time Database Systems

Anis Haj Said, Bruno Sadeg, Laurent Amanton and Bechir Ayeb 556

Wednesday, 29th October 2008

ROOM C- 09.00-10.00

AI

AI TECHNIQUES

Chair: Fadi Thabtah, Philadelphia University, Amman, Jordan

AI_09

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AI_09

Energy Efficient PSO-based Algorithm for Optimizing Autonomous Wireless Sensor Network

Mohaned Al-Obaidy and Aladdin Ayesh..... 201

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.30

METH

MODEL REFINEMENT

Chair: TBA

METH-01

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Daniel David and Rémy Courdier..... 25

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J. Torres, G. Romero, J. Gomez-Elvira and J. Maroto..... 28

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Martin Pruzinec, Hildegard Köhler and Annika Wörner..... 35

Wednesday, 29th October 2008

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Gábor Lencse and László Muka.....38

ROOM B- 10.30-12.30

RTS

SIMULATION MODELLING AND DATAMANAGEMENT IN RTS II

Chair: Bruno Sadeg, Université du Havre, Le Havre, France

COMPLEX_06

An Activity- and Actor-Oriented Approach for the Project Engineering of Complex, Weakly Structured Projects

Sven Tackenberg, Sönke Duckwitz, Selvinaz Karahancer, Wolfgang Kabuß, Bernhard Kausch and Christopher M. Schlick56

TOM_03

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Chair: Lazlo Gulyas, Lorand Eotvos University, Budapest, Hungary

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THIS SESSION MIGHT START AT 10.30 ONLY AND KEEP ON RUNNING IN THE
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CLOSING SESSION AND BEST PAPER AWARD

Chair: Cyrille Bertelle, Universite du Havre, Le Havre, France

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**Track proposals and tutorial proposals can be sent in by
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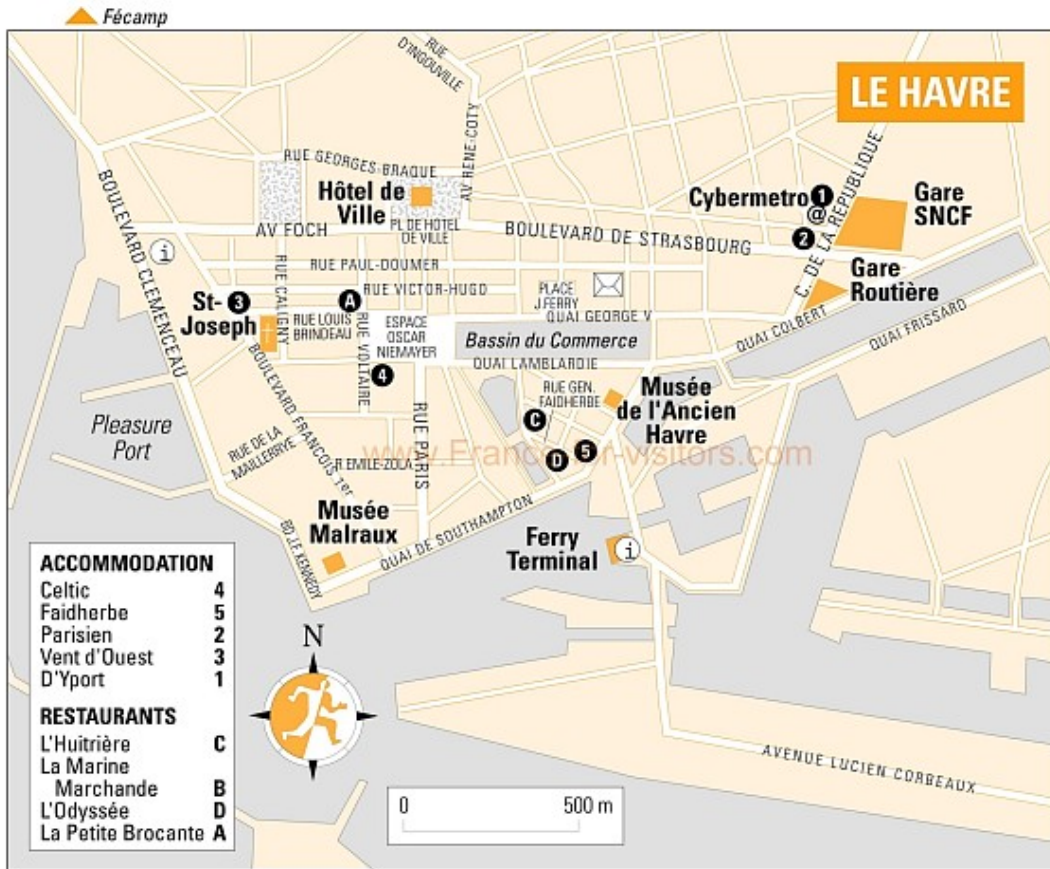
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Conference Site Map

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The University is located north of the Gare SNCF, just south of the sign of Le Havre on this map and to the east of C. de La République.

eurosis

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

Philippe Geril
EUROSIS-ETI
Greenbridge NV
Wetenschapspark 1
Plassendale 1
B- 8400 Ostend
Belgium
Tel: +32.59.255.330
Fax: +32.59.255.339
Email: Philippe.Geril@eurosis.org

Please send me info on EUROSIS:

Name:

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