FINAL PROGRAM

25-27 October 2010

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UNIVERSITY OF SKÖVDE

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General Information

1. Conference Location

The **ESM'2010 Conference** is being held

In the MAIN BUILDING of the University known as Building D (Meeting Rooms will be signposted.)
Hasselt University
Campus Diepenbeek
Agoralaan –Building D
BE-3590 Diepenbeek, Belgium
Tel: +32.11.26.81.11
Fax: +32.11.26.81.99
E-mail: info@uhasselt.be

The registration desk will be placed in the hallway on the first floor **in the corridor to the right of the main university entrance in building D** from Monday morning October the 25th onwards, where registration will start at 08.00 and will end at 5.00 p.m.On Tuesday October 26th registration will be from 8.30 a.m. - 5.00 p.m. with Wednesday registration only from 8.30 a.m.- 9.00. a.m. The way to the conference and desk will be signposted.

ALL MAJOR MAPS ARE AT THE BACK OF THIS PROGRAMME

How to reach the conference location in Hasselt by bus:

Either from **Hasselt Railway Station** or from **Kolonel Dussart Plein** buses to the Campus Diepenbeek leave every 15 minutes between 6.10 and 20.10 (Line 45). The trip takes 10-15 minutes. Cost **2 EURO**. In the University grounds get off on the 2nd stop where you see a barrier across the road in front of you. Go on foot past the barrier and the main building (**BUILDING D**) is on the right hand side, enter through the glass dome, walk straight on and take the corridor on your right. The main hall is on the ground floor on your left the meeting rooms are up the first staircase on your right.
All travel by bus within the city centre is FREE.

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 plus 21% VAT**
Extra lunch ticket	**€ 25 plus 21% VAT**

4. Registration

The ESM'2010 Registration Desk will be open for information and registration:

Monday, October 25 ..... 8.00 a.m. to 5.00 p. m.
Tuesday, October 26 ..... 8.30 a.m. to 5.00 p. m.
Wednesday, October 27 ..... 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 and who have not fully registered.**
(Extra copies are available on a cash and carry basis at special rates during **ESM'2010**)

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

ESM'2010 Proceedings CASH AND CARRY	**€ 50 plus 21% VAT**

6. Meeting Rooms

Next to the Main Hall or **Opening Session Room**, which is designated **MAIN HALL (room H2 on the ground floor)**, the **other meeting rooms** (**B102, B107 and B108**) **ar**e designated **A, B and C**.(**on the first floor**) The way to the rooms will be signposted. WIFI-Internet will be available. Information at the conference

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 **Hasselt University restaurant. Participants need to show their badge at the entrance of the restaurant.**

Reception at the Town Hall on **MONDAY** evening at 17.40 till 18.15
(we will meet on the Hasselt main square at 17.30)

General Information

Guided tour of the National "Jenever Museum" on Monday evening from 18.30 to 20.00 (we will leave as a group from the Town Hall to the Museum)

The Conference Dinner
All participants are invited to the conference dinner on **TUESDAY** the 26th of October at the **Theatercafe** in Hasselt. As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Monday evening**.

We will meet at **7.30 p.m. on the Kolonel Dussart Square** from where we will walk as a group to the conference dinner site Of course, you can also make your own way to the restaurant and meet up with us there at 8.00 p.m.

9. Room Legend

The parallel meeting rooms will be designated **ROOM A, B and C** .Signposts will indicate the way to 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'2010 conference.

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL

Session Chairs are chosen on a voluntary basis by proposals by either authors or local committee members or are appointed by the Track Chairs, General Program Chair or General Conference Chair. They are responsible for their assigned session. They make sure their speakers are available, take care of the timing within the session, chair the discussion after each presentation and introduce each speaker based on the CV's given to them by the authors. **If a session chair is not available then the first author takes on the responsiblity to chair**

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, 25th OCTOBER 2010			
08.00-17.00	REGISTRATION		
09.00-09.15	OPENING SESSION AND WELCOME BY GERRIT JANSSENS AND PIET PAUWELS		
09.15-10.00	KEYNOTE ADDRESS BY LEEN DECIN IN THE MAIN HALL		
10.00-10.30	COFFEE BREAK		
10.30-12.30	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
	MODELLING LANGUAGES AND TOOLS I	ECONOMICS SIMULATION	ENVIRONMENTAL SIMULATION I
12.30-14.00	LUNCH BREAK		
14.00-15.00	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
	SIMULATION METHODOLOGY	INTERMODAL TRANSPORT SIMLATION I	ENVIRONMENTAL SIMULATION II
15.00-15.30	COFFEE BREAK		
15.30-17.00	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
	MODELLING LANGUAGES AND TOOLS II	INTERMODAL TRANSPORT SIMULATION II	FLUID FLOW SIMULATION
17.40-18.15	RECEPTION AT THE HASSELT TOWN HALL		
18.30-20.00	GUIDED TOUR OF THE NATIONAL “JENEVER” MUSEUM		

TUESDAY, 26th OCTOBER 2010			
08.30-17.00	REGISTRATION		
09.00-10.00	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
	EDUCATIONAL SIMULATION	LOGISTICS AND SUPPLY CHAIN SIMULATION I	MANAGEMENT SIMULATION
10.00-10.30	COFFEE BREAK		
10.30-12.30	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
	COMPARATIVE SIMULATION METHODOLOGY	LOGISTICS AND SUPPLY CHAIN SIMULATION II	HEALTH CARE MANAGEMENT
12.00-14.00	LUNCH BREAK		
14.00-15.00	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
	SIMULATION DATA ANALYSIS TOOLS I	TRANSPORT INFRASTRUCTURE LAYOUT DESIGN I	ELECTRONICS SIMULATION
15.00-15.30	COFFEE BREAK		
15.30-18.00	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
	SIMULATION DATA ANALYSIS TOOLS II	TRANSPORT INFRASTRUCTURE LAYOUT DESIGN II	COMPLEX SOFTWARE SYSTEMS SIMULATION
20.00 – 23.00	CONFERENCE DINNER		

WEDNESDAY, 27th OCTOBER 2010			
08.30-09.00	REGISTRATION		
09.00 10.00	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
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10.00-10.30	COFFEE BREAK		
10.30 12.30	PARALLEL SESSIONS		
	ROOM A	ROOM B	ROOM C
	SIMULATION MODELS	TRANSPORT MODELLING AND SIMULATION I	NETWORK SIMULATION
12.30-12.45	CLOSING SESSION AND BEST PAPER AWARD ROOM A		

Notes

NOTES

Monday, 25th October 2010

HALLWAY 1ST FLOOR

Registration

08.00 - 17.00

MAIN HALL GROUND FLOOR

09.00 – 10.00

Opening ESM'2010 and Welcome

Welcome Address

Gerrit K.Janssens
Hasselt University
ESM'2010 General Conference Chair

Piet Pauwels
Dean of the Faculty of Management Sciences
Hasselt University

09.15 – 10.00
KEYNOTE SPEECH
Chair: Gerrit K Janssens, Hasselt University, Hasselt, Belgium

Deciphering the spectral fingerprints of old stars
Leen Decin, University of Leuven, Leuven, Belgium

Welcome

Monday, 25th October 2010

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

ROOM A- 10.30-12.30 METH
MODELLING LANGUAGES AND TOOLS I
Chair: Mario Cools, Hasselt University, Hasselt, Belgium

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Deniz Cetinkaya, Alexander Verbraeck and Mamadou Seck **67**

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Alfonso Urquia, Carla Martin-Villalba and Sebastian Dormido..... **75**

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Yilin Huang, Mamadou D. Seck and Alexander Verbraeck..... **80**

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Dominique Urbani, Marielle Delhom and Stephane Garredu **235**

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Multi-Agent Model of Trust Affection
Arnostka Netrvalova and Jiri Safarik **242**

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Chair: Vrassidas Leopoulos, Nat.Techn. University of Athens, Greece

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Mariusz Nowak and Andrzej Urbaniak **421**

ENV_01
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Ulla Ahonen-Jonnarth and Jan Odelstad **426**

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Pilar Fuster-Parra, Sebastiá Galmés and Antoni Ligęzay **434**

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14.00 – 15.00

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Chair: Daniel Dupleac, University Politehnica, Bucharest, Romania

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Efficient State Space-Based Simulation Avoiding Redundancies in the Proxel Method
Robert Buchholz, Claudia Krull and Graham Horton **5**

Monday, 25th October 2010

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Olaf Frommann **13**

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Ethem Pekin, Cathy Macharis, Ellen Van Hoeck and Tom van Lier **309**

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Edith Schindlbacher and Manfred Gronalt **317**

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Chair: Jan Studzinski, Polish Academy of Sciences, Warsaw, Poland

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Yassine Gangat, Mayeul Dalleau, Daniel David, Nicolas Sebastien and Denis Payet **439**

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Evangelos Bellos, Vrassidas Leopoulos, Michalis Menicou and Marios Charalambides **443**

15.00 - 15.30
COFFEE BREAK

Monday, 25th October 2010

15.30 - 17.00

ROOM A- 15.30-16.30 METH
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Chair: Mario Cools, Hasselt University, Hasselt, Belgium

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Ellen Van Hoeck, Cathy Macharis, Ethem Pekin and Tom van Lier **322**

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Ilie Prisecaru, Daniel Dupleac and Niță Iulian..... **403**

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Wael Yateem, Vahid Nassehi, Abdul R. Khan and Bahareh Kaveh-Baghbaderani **431**

17.40 – 18.15
RECEPTION AT THE HASSELT TOWN HALL

Groenplein 1
3500 Hasselt

18.30 - 20.00
GUIDED TOUR OF THE NATIONAL"JENEVER MUSEUM"
Witte Nonnenstraat 19
3500 Hasselt, Belgium

011 23 98 60
http://www.jenevermuseum.be/

Location Map is at the back of the programme

FREE EVENING

Tuesday, 26th October 2010

HALLWAY 1ST FLOOR

Registration

08.30 - 17.00

09.00 – 10.00

ROOM A- 09.00-10.00 **EDU**
EDUCATIONAL SIMULATION
Chair: Jiri Safarik, University of West-Bohemia, Plzen, Czech Republic

EDU_02
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Liberato Camilleri, Christine Firman, Victor Martinelli and Frank Ventura..... **449**

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Matthias Klumpp, Sascha Bioly, Alexandra Mai and Hella Abidi **378**

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Eric R.W. Haardt, Jaap A. Ottjes, Bas J.H. van Delft and Gabriel Lodewijks **396**

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Chair: Christoph Laroque, Heinz-Nixdorf Institute, Paderborn, Germany

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Miguel Miranda, Júlio Duarte, António Abelha, José Machado José Neves and João Neves **261**

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12.30 - 14.00
LUNCH BREAK

Tuesday, 26th October 2010

14.00 - 15.00

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Chair: Šárka Květoňová, Brno University of Technology, Czech Republic

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Chair: Eugeniusz Sroczan, State Higher Educational School, Poznan, Poland

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Jonathan Passerat-Palmbach, Claude Mazel, Antoine Mahul and David R.C. Hill **187**

15.00 - 15.30
COFFEE BREAK

15.30 – 18.00

ROOM A- 15.30-18.00 **METH**
SIMULATION DATA ANALYSIS TOOLS II
Chair: Vahid Nassehi, Loughborough University, United Kingdom

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Bhakti S. S. Onggo, Cristina Montañola-Sales and Josep Casanovas-Garcia **142**

Tuesday, 26th October 2010

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Chair: Gerrit K.Janssens, Hasselt University, Hasselt, Belgium

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Michele Fumarola, Yilin Huang and Çagri Tekinay **288**

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R. van Duijn, H.P.M. Veeke and G. Lodewijks **294**

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E.E. van Leeuwen, H.P.M. Veeke, R. van der Stappen and G. Lodewijks **299**

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

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Model Driven reverse Engineering for a Transcranial magnetic Stimulation Simulation applied to Software Versioning
Eric Innocenti, Sébastien Luquet, Vincent Barra and David R.C. Hill **199**

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S.Balsamo, G. Dei Rossi and A. Marin **206**

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Antti P. Miettinen, Vesa Hirvisalo and Jussi Knuuttila **214**

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Model Based Control Software Synthesis for Paper Handling in Printers
Chitralekha Pillai, Ronald Fabel and Lou Somers **220**

Tuesday, 26th October 2010

CONFERENCE DINNER – 20.00 -23.00

Theatercafe
Kultureel Centrum Hasselt
Kunstlaan 5
3500 Hasselt
Tel: +011-22 99 31
Fax: +011-24 32 07

If you wish to go on your own and by bus take the free citybus which stops at the Kunstlaan. From that stop it's about 100 m on foot

Wednesday, 27th October 2010

HALLWAY 1ST FLOOR

Registration

08.30 - 09.00

09.00 – 10.00

ROOM A- 09.00-10.00 **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 B- 09.00-10.00 **EUROSIS**
EUROSIS OPEN MEETING AND MEET AND GREET
Chair: Philippe Geril, EUROSIS, Ostend, Belgium

This brainstorming meeting is open to EUROSIS members and to those interested in EUROSIS activities to chart future activities and introduce new ideas. It's also an opportunity to meet the organizers of ESM'2011 and put your suggestions or proposals to them.

10.00 - 10.30
COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.00 **METH**
SIMULATION MODELS
Chair: Jose Machado, University of Minho, Braga, Portugal

PAR_01
A Security Simulation Model for Large Scale Distributed Systems
Ciprian Dobre, Florina Constantin, Florin Pop and Valentin Cristea **..... 45**

Wednesday, 27th October 2010

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Bhakti S. S. Onggo **51**

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Christoph Laroque, Sebastian Krimmer and Robin Delius..... **56**

ROOM B- 10.30-12.00 TRANS
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Chair: Davy Janssens, Hasselt University, Hasselt, Belgium

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Creating an Innovative Activity-Based Freight Transportation Framework
Tabitha Maes, Katrien Ramaekers, An Caris, Tom Bellemans and Gerrit K. Janssens **352**

TRANS_14
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Katrien Ramaekers, Mario Cools, Sofie Reumers and Geert Wets **358**

TRANS_20
Lead Time Analysis of Passengers and Baggage at Amsterdam Airport Schiphol
Tim ter Horst, Jaap A. Ottjes, Marianne N. van Scherpenzeel and Gabriel Lodewijks **366**

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NETWORK SIMULATION
Chair: Jose Neves, University of Minho, Braga, Portugal

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Lidia Bartkiewicz and Jan Studzinski..... **156**

Wednesday, 27th October 2010

METH_13
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Eugeniusz M. Sroczan 167

PAR_06
Load Diffusion and Brownian Models for Cloud Balancing: between C-S and p2p
Vasil Georgiev 170

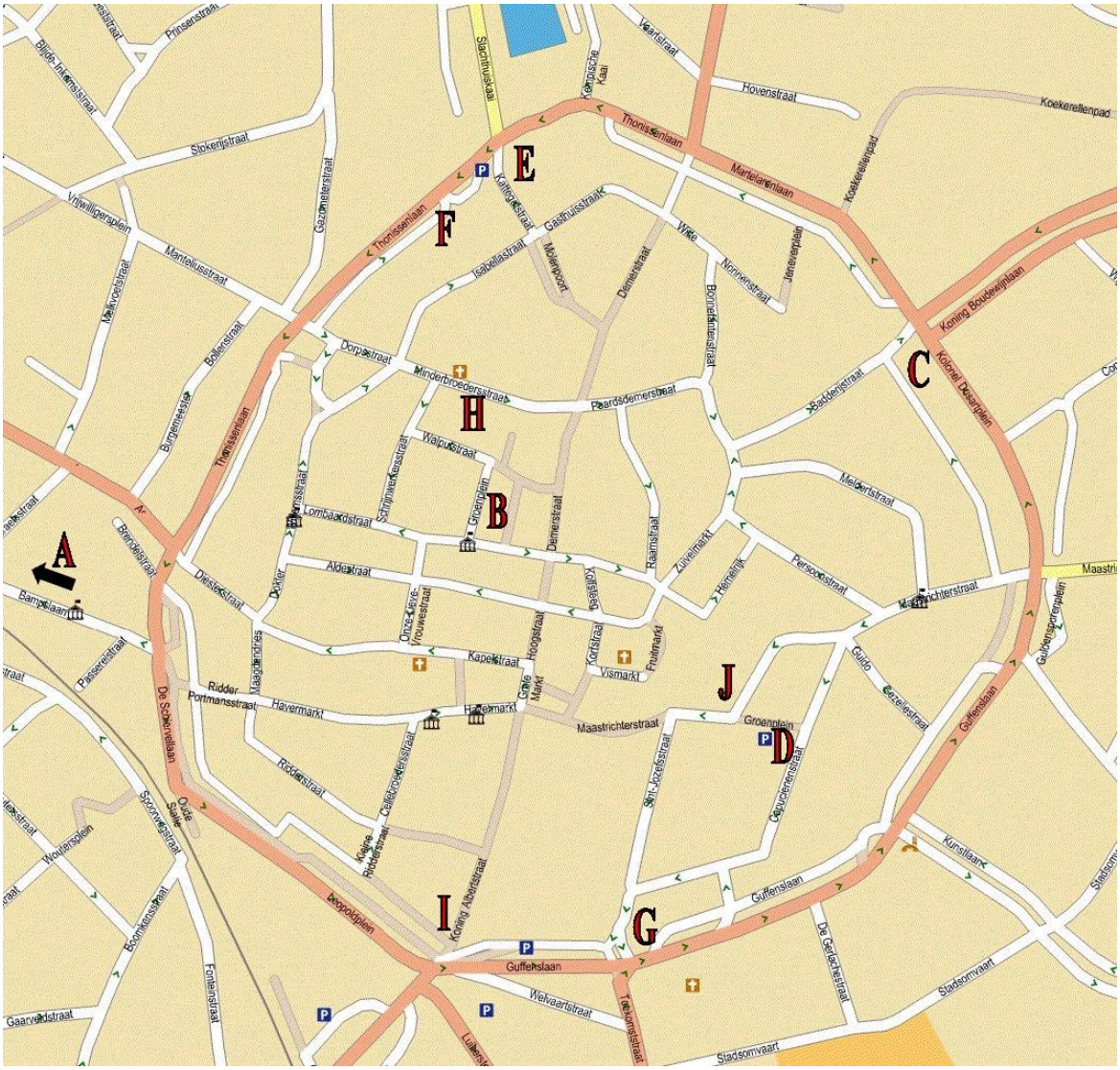
ROOM A 12.30 - 12.45 **BEST PAPER**
CLOSING SESSION AND BEST PAPER AWARD
Chair: Gerrit K.Janssens, Hasselt University, Hasselt, Belgium

SEE YOU ALL
OCTOBER 25-27, 2011
FOR ESM'2011
At Hotel de Guimareas, Guimareas, Portugal
In cooperation with the University do Minho
Track proposals and tutorial proposals can be sent in by January 30th, 2011

Information on all 2011 EUROSIS Events can be found on http://www.eurosis.org

Conference Site Maps

HASSELT HOTEL LOCATION & TRAVEL INFO



A: Railway Station (including bus station, with direct line towards campus)
B. City Hall
C. Kolonal Dusart Plein (bus station, with direct line towards the campus)
D. Radisson Sas Hotel
E. Holiday Inn Hotel
F. Express by Holiday Inn Hotel
G. Hassotel
H. Hotel Portmans
I. Hotel The Century

Conference Site Map

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Other university maps can be viewed on:

http://www.eurosis.org/cms/files/location/hasselt/gr1.gif

http://www.eurosis.org/cms/files/location/hasselt/gr2.gif

http://www.eurosis.org/cms/files/location/hasselt/gr3.gif

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