Final Program

22-24 May 2013

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General Information

1.1 Conference Location
The Conference itself is held at
the Faculty of Engineering
Architecture
Ghent University
Jozef Plateaustraat 22,
B-9000 Gent

The meeting rooms are the Plateauroom, Auditorium B and Auditorium D, respectively on the ground floor and first floor of the building. Registration will start on Wednesday at 8.30 a.m. till 5.00 p.m. On Thursday it will be from 8.30 a.m. - 5.00 p.m. with Friday registration only from 9.00 a.m.- 09.30. a.m.

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

1.2 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.

1.3 Tickets
Extra tickets for the social event and lunches are available from the Registration desk. (at conference prices)

Price: (or equivalent in another currency) for extra tickets. All participants will be issued with tickets for lunch and the conference dinner. Or just the badge will apply.

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<tr>
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<td>lunch</td>
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1.4 Registration
The ISC’2013 Registration Desk will be open for information and registration:

Wednesday, May 22 .............8.30 a.m.  to  5.00 p. m.
Thursday, May 23 .............8.30 a.m.  to  5.00 p. m.
Friday, May 24 ...............9.00 a.m.  to  9.30 a.m.
General Information

1.5 Conference Proceedings

Each fully paid registrant will be provided with a copy of the Conference Proceedings (printed format). (Extra copies are available on a **cash and carry** basis at special rates during ISC-2013)

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

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Other Proceedings can be ordered using the forms available at the conference.

1.6 Meeting Rooms

The meeting rooms are the Plateauroom (keynotes), Auditorium B (room A) and Auditorium D (Room B). Directions to the room will be signposted.

1.7 Internet Connection

There is full free WIFI at the conference site.

1.8 Need Help?

Please see the conference desk for your questions

1.9 Social Events and Lunches

**All registrants are invited:**

To the **Coffee Breaks** for the 2 ½ days which will be served just outside the University in Het Salon, Sint-Pietersnieuwstraat 194. Ghent

To the **lunches** for 2 days which will be served at

De Vooruit
Sint-Pietersnieuwstraat 23
9000 Gent.

Tel: 09.267.28.28
(just round the corner of the conference venue)
As de Vooruit is celebrating its centenary and for this reason all lunches will be based on 100 year old recipes.
General Information

To the Conference Dinner

The conference dinner will be held on the 23rd of May in the evening at the Universiteit Gent Het Pand Onderbergen 1 9000 Gent
Tel: 09 264 83 05
Fax: 09 264 83 96
We will meet at the entrance of the restaurant at 19.30 p.m

1.10 Best Paper Award

During the conference the papers, which were accepted as extended papers will be judged by the committee and participants in order to choose the best paper of the ISC’2013 conference. The best paper candidate receives a certificate signed by the General Conference and Program Chairs and also a free registration to any EUROSIS conference within 2 years of receipt of the prize.

1.11 Paper Legend:

Each paper is designated before each paper by its number. This number has to be entered on the form for the best paper award

The room has an LCD projector and an overhead projector

SESSION CHAIRPERSONS

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 responsibility to chair

Sessions with extended papers: If you are a session chair in a session with extended papers make sure the session participants have a copy of the best paper award form and ask them to return them to you at the end of the session. After the session hand over the collected forms to Philippe Geril
General Information

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

ONLY PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS ELIGIBLE FOR THE BEST PAPER AWARD
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FREE EVENING

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Wednesday, 22\textsuperscript{nd} May 2013

HALLWAY
Registration
08.30 - 17.00

PLATEAU ROOM
KEYNOTE
09.00 – 09.15
Opening ISC2013 and Welcome

Welcome Address

Veronique Limère, Ghent University of Technology, Ghent, Belgium
ISC’2013, General Conference Chair

El-Houssaine Aghezzaf, Ghent University of Technology, Ghent, Belgium
ISC’2013, General Program Chair

09.15 – 10.00
KEYNOTE SPEECH
Chair: El-Houssaine Aghezzaf, Ghent University, Ghent, Belgium

Simulation in the boardroom: industrial footprint optimization
Prof. Hendrik Vanmaele, Mobius Consulting, Ghent, Belgium
Wednesday, 22nd May 2013

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

ROOM A-10.30-12.00  MGMT

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

AI_02
Simulation Gaming and Natural Language Processing for Modelling Stakeholder Behavior in Energy Investments
A. Ittoo, N.B. Szirbik G.B. Huitema and J.C. Wortmann .......................................................... 23

METH_03_TEL
Hybrid Simulation of Mobile Business Processes
Stefan Hellfeld ........................................................................................................................... 28

HEALTH_03
How Two Management Engineers and a Simulation Software can support the Organization of a New Surgical Pre-Admission Unit
Giorgio Romanin-Jacur and Federico Segala .............................................................................. 34

ROOM B-10.30-12.30  ENGIN

SIMULATION IN ENGINEERING I
Chair: Janos Janosy Sebestyen, EK, Budapest, Hungary

MULTI_03
Development and Evaluation of an Order-N Formulation for Multi-Flexible Body Space System
Tushar Ghosh and Leslie J. Quiocio .......................................................................................... 51

TOOLS_01
Industrial Simulation in Fluid Power Systems by SIMULINK and AMESIM
Daniela Vasiliiu, Georgiana Claudia Vasiliiu, Nicolae Vasiliiu and Petru-Cristinel Irinia ......................................................................................................................... 59

ENGIN_05
Thermal Modeling of a Battery Package used on Road Vehicle Powertrain
Valerian Crotorescu, Jan Anthonis and Nicolae Vasiliiu ................................................................ 67
Wednesday, 22\textsuperscript{nd} May 2013

\textbf{ENGIN_07}
Numerical Simulation and Experimental Validation of the transients from High Head Hydropower Plants
Radu Puhalschi, Marius Mitroi, Constantin Călinoiu and Nicolae Vasiliu.............. 75

12.30 - 14.00
LUNCH BREAK

14.00 – 15.00

\textbf{ROOM A- 14.00-15.00}  \hspace{1cm} \textbf{MGMT}
\textbf{WASTE MANAGEMENT SIMULATION}
\textbf{Chair:} A. Ittoo, University of Groningen, Groningen, The Netherlands

\textbf{AI_04}
Planning Revitalization Sewerage Systems using Decision Rules of Fuzzy Logic
Agnieszka Służalec and Andrzej Ziółkowski......................................................... 39

\textbf{OPT_03}
Using Optimization Approaches for Modeling, Control and Management of Water Networks
Jan Studzinski ........................................................................................................... 44

\textbf{ROOM B- 14.00-15.00}  \hspace{1cm} \textbf{MGMT}
\textbf{SIMULATION IN ENGINEERING II}
\textbf{Chair:} Valerian Croitorescu, University POLITEHNICA, Bucharest, Bucharest, Romania

\textbf{ENGIN_10}
Lifetime Evaluation of the Mechanical Elements for Hydraulic Turbines by Numerical Simulation
Constantin Drăgoi, Vlad Florin Pîrăianu and Petru-Cristinel Irimia ....................... 83

\textbf{ENERG_01}
Modelling Building Effects on Atmospheric Dispersion Comparison between ADMS and ANSYS CFD
Claudia Gheorghe (Nicolici), Ilie Prisecaru, Stefan Nicolici and Radu M.Bilegan............................................. 88
Wednesday, 22nd May 2013

15.00 - 15.30
COFFEE BREAK

15.30 - 16.30

ROOM A- 15.30-16.30 MANUF
MANUFACTURING SIMULATION
Chair: Giorgio Romanin-Jacur, University of Padova, Padova, Italy

MANUF_01
Simulation of a Winding Production Unit for the Supply Automation of Bobbins
Brahmadeep and Sébastien Thomassey................................................................. 127

MANUF_04
Impact of Industrial Sorting on various Pistachio Categories in link with Aflatoxin Contamination thanks to a Monte Carlo Simulation
Nathalie Wesolek, Alejandra Ramirez-Martinez and Alain-Claude Roudot.......... 132

ROOM B- 15.30-16.30 TRAF
TRAFFIC SIMULATION
Chair: El-Houssaine Aghezzaf, Ghent University, Ghent, Belgium

TRAF_05
Analysis of Possible Speedup of the Microscopic Road Traffic Simulation using Aggregate Movement of Vehicles
Tomas Potuzak........................................................................................................ 235

TRAF_01
Microscopic Simulation of Multimodal Urban Traffic Network
Ivana Ćavar, Marjana Petrović and Miroslav Vujeć ............................................. 240

FREE EVENING
Thursday, 23rd May 2013

HALLWAY
Registration
08.30 - 17.00

09.00 – 10.00
KEYNOTE SPEECH
Chair: Veronique Limère, Ghent University, Ghent, Belgium

Knowledge Simulation and Return on Education in the Logistics Industry
Matthias Klumpp

10.00 - 10.30
COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.30
MANUF
PRODUCTION OPTIMIZATION
Chair: Rodrigo Rezende Amaral, Ghent University, Ghent, Belgium

OPT_01
Using Shewhart Control Charts for Continuous Model Optimization
Rodrigo Rezende Amaral, Peter Ottoy and Veronique Limère

ENGIN_03
Database-Driven 3D Simulation: a Method Specification using the UML Metamodel
Martin Hoppen, Michael Schluse and Juergen Rossmann
Thursday, 23rd May 2013

METH_07
Simulation System for Linear Cutting Plans
Ovidiu-Dorin Alupei-Cojocariu, Nicolae Vasiliu and Szilard Feher................................. 155

MANUF_02
Automotive Production Location Cost Optimization with Productivity and Sustainability Constraints
Matthias Klumpp and Viktor Kuchshaus................................................................. 160

ROOM B- 10.30-12.30

SUPPLY CHAIN SIMULATION
Chair: Veronique Limère, Ghent University, Ghent, Belgium

LOGIS_12
Sectioned Walking Worker Lines with Loop Balancing
Leif Pehrsson, Amos H.C. Ng, Jacob Bernedixen and David Stockton ....................... 187

LOGIS_05
A Scalable Agent Based Decision Support System: Case Manufacturing Supply Chain
Lauri Lättilä and Samuli Kortelainen........................................................................... 198

LOGIS_07
Estimating the Cost Structure of Wood Chip Supply Chains: A Simulation Approach
Lauri Lättilä, Kalle Karttunen, Olli-Jussi Korpinen, Jarno Föhr and Tapio Ranta......................... 203

LOGIS_14
Generic Simulation Model for Assembly Line Supply
Veronique Limère, Kurt Decock and El-Houssaine Aghezzaf....................................... 192

12.30 - 14.00
LUNCH BREAK

14.00 - 15.00
Thursday, 23rd May 2013

ROOM A - 14.00-15.00  ELEC
ELECTRONIC NETWORKS SIMULATION I
Chair: Izabella Lokshina, SUNY Oneonta, Oneonta, USA

METH_05
Improving Performance Prediction of Parallel and Distributed Discrete Event Simulation: A Rough Sets Based Approach
László Muka and István Derka .................................................................................................................. 95

TEL_04
Testing The Speed up of Parallel Discrete Event Simulation in Heterogeneous Execution Environments
Gábor Lencse and István Derka ............................................................................................................... 101

ROOM B - 14.00-15.00  LOGIS
LOGISTICS SIMULATION I
Chair: Veronique Limère, Ghent University, Ghent, Belgium

LOGIS_09
A Framework for Discrete Event Simulation of Pick Up and Delivery Problems
Anna Syberfeldt ............................................................................................................................................. 219

LOGIS_10
Simulation Optimization of Waste Collection Based on Ultrasonic Level Measurements
Anna Syberfeldt ............................................................................................................................................. 227

15.00 - 15.30
COFFEE BREAK

15.30 – 17.00

ROOM A - 15.30-17.00  ELEC
ELECTRONIC NETWORKS SIMULATION II
Chair: Lazslo Muka, Elassy Consulting Ltd, Budapest, Hungary

TEL_02_COMPLEX
Algorithms for Accelerated Rare Event Simulation with Markov Chain Modelling in Communication Networks
Izabella Lokshina and Evan Schiele ........................................................................................................ 108
Thursday, 23rd May 2013

ENGIN_04
Supervising Cathodic Protected Nets with CI-based Methods
Matthias Reuter ................................................................. 114

LOGIS_04
Time Response of Operating Systems simulated by Load Balancing in Gridsim
Peter Kvasnica, Igor Kvasnica and Rozmarína Dubovská.............................................. 119

ROOM B- 15.30-16.30
ISC’2014 ORGANIZATIONAL MEETING
Chair: Philippe Geril, EUROISIS, Ostend, Belgium

This meeting is open to all ISC’2013 participants who are interested in being part of the organization group for ISC’2014

CONFERENCE DINNER – 19.30-22.30

The conference dinner will be held on the 23rd of May in the evening at the Universiteit Gent
Het Pand
Onderbergen 1
9000 Gent
Tel: 09 264 83 05
Fax: 09 264 83 96
We will meet at the entrance of Het Pand at 19.30 p.m
Friday, 24th May 2013

HALLWAY
Registration
09.00 - 09.30

09.00 – 10.00
KEYNOTE SPEECH
Chair: Veronique Limère, Ghent University, Ghent, Belgium

Simulation of the Redundant Electrohydraulic Control Systems
Professor Nicolae Vasiliu, "POLITEHNICA" University of Bucharest, Bucharest, Romania

10.00 - 10.30
COFFEE BREAK

10.30 - 12.00

ROOM A- 10.30-12.00
AGV SIMULATION
Chair: Nicolae Vasiliu, POLITEHNICA University Bucharest, Bucharest, Romania

TRAF

AI_01
Coupling of a Discrete Event Multi-Agent Simulation with a Real Time Multi-Agent Simulation
Christoph Schwarz, Jurij Schachmanow, Jürgen Sauer, Ludger Overmeyer
and Georg Ullmann ................................................................. 165

LOGIS_11
Decision-Making in Conceptual AGV Systems Design using Simulation Based Optimization
Leif Pehrsson and Amos H.C. Ng ......................................................... 171
Friday, 24th May 2013

TRAF_03
A Simulation Model using AMR Sensors Applied to Vehicles Classification and Identification
Ramón V. Cirilo Gimeno, Marta Pla Castells, Antonio García Celda and Javier Martínez Plumé

ROOM B- 10.30-12.00
BACK-UP SESSION
Chair: Philippe Geril, EUROSIS, Ostend, Belgium
This session is open to all ISC’2013 authors who through circumstances beyond their control were unable to present their paper in their allotted slot.

ROOM A- 12.00 - 12.15
BEST PAPER
CLOSING SESSION AND BEST PAPER AWARD
Chairs: Veronique Limère and El-Houssaine Aghezzaf, Ghent University, Ghent, Belgium
SEE YOU ALL
JUNE 11-13 FOR ISC’2014
Högskolan Skövde, Skövde, Sweden

Track proposals and tutorial proposals can be sent in by August 30th, 2013 to philippe.geril@eurosism.org

Other ISC Conferences from 2014 onwards

ISC’2015, June 2015, St.Petersburg State Institute of Technology, St.Petersburg, Russia
ISC’2016, June 2016, POLITEHNICA University of Bucharest, Bucharest, Romania
ISC’2017, June 2017, Reykjavik, Iceland
If you are interested in hosting an ISC conference, just contact EUROSIS.
Conference Site Map

Venue in the J. Plateaustraat (Square 2 and 3 just above this text)
NOTES
# ISC’2013 Registration Form

Please legibly print or type and fill out completely. (Check appropriate boxes where necessary)

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1. [ ] EUROISIS member € 545 Member Number: ________________________________ €__________

2. [ ] Members of Sponsor or Affiliate Society € 545 €__________

3. [ ] Non-Member Participant € 555 €__________

4. [ ] Students, who are not authors but who wish to attend the conference, or ONE DAY PARTICIPANTS pay: € 435 (Above registration fees include, one copy of the PROCEEDINGS, all midday meals, cocktail, refreshments, coffees and social program,) One Day Participants and Non-Author Students cannot participate in the conference dinner.

5. [ ] Conference Dinner Ticket for Companion € 45 [ ] Lunch Ticket for Companion € 25/day €__________

6. [ ] Extra Conference Proceedings € 50 Cash and Carry €__________

VAT Number if applicable: ____________________________

TOTAL AMOUNT DUE €__________

ADD BELGIAN VAT OF 21% TO THE TOTAL (OBLIGATORY) €__________

ADD BANK CHARGE of € 15 in case you pay by BANK or CHEQUE. €__________

TOTAL AMOUNT REMITTED €__________

[ ] 1) Make payment by BANK TRANSFER to account IBAN CODE: BE03 0014 0814 7784 EUROPEAN TECHNOLOGY INSTITUTE, ETI Bvba, BNP PARIBAS FORTIS BANK, Torhoutsesteenweg 356, B-8400 Ostend, Belgium, SWIFT CODE: GEBABEBB MENTION YOUR NAME and ISC’2013

[ ] 2) Or pay by CHEQUE and send it to Philippe Geril, EUROISIS-ETI, European Simulation Office, Greenbridge Science Park, Ghent University – Ostend Campus, Wetenschapspark 1, Plassendale 1, B-8400 Ostend, Belgium.

[ ] 3) Or pay by CREDIT CARD and fill in the information below:

Charge my (tick one): [ ] Visa [ ] Euro/Mastercard [ ] American Express [ ]Diners

CARD NO: __ __ __ __ : __ __ __ __ : __ __ __ __ : __ __ __ __ EXP.DATE: ____ / ____

Authorizing Signature:

Print Signature in CAPITALS
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 EUROSIS is 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.

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