Contents

General Information ................................................................. 4
Badges ..................................................................................... 5
Best Paper Award ................................................................. 7
Conference Location ............................................................ 4
Conference Proceedings ....................................................... 5
How to get there .................................................................... 4
Internet Connection ............................................................... 6
Meeting Rooms ...................................................................... 6
Need Help? ............................................................................. 6
Paper Legend ......................................................................... 7
Registration ............................................................................ 5
Social Event and Lunches ...................................................... 6
Tickets .................................................................................... 5

Quick Program Overview ....................................................... 8
Welcome Address ................................................................. 11

Scientific Program ............................................................... 11

Monday, June 1 ....................................................................... 11
Tuesday, June 2 ....................................................................... 17
Wednesday, June 3 ............................................................... 22

Conference Locations ........................................................... 25

EUROSIS Info ....................................................................... 26
General Information

1.1 Conference Location

The Conference itself is held at

Compass Hotel Loughborough
(former Quality hotel)
New Ashby Rd. - Jct. 23/M1,
Loughborough, Leicestershire,
LE11 4EX, United Kingdom
Tel: +44.(0)1509. 211800
Fax: +44.(0)1509.211868

The registration desk will be placed in the hallway in front of the meeting rooms. Registration will start on Monday at 8.15 a.m. till 5.00 p.m. On Tuesday it will be from 8.30 a.m. - 3.30 p.m. with Wednesday registration only from 8.45 a.m.- 09.30. a.m.

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

1.2 How to get there

By Train

When taking the train to the United Kingdom, then you will be using the EUUSTAR service arriving at St.Pancras station. After clearing customs and passport control you leave the EUUSTAR part of the station, turn right and up the escalators for all northbound trains to Leeds, Sheffield and Nottingham on East Midland Trains. You can either go direct to Loughborough Station or change trains in Leicester. If you come from Birmingham then take a train from the airport to Birmingham New Street Station and come to Loughborough via Leicester. This will take you 1 hour 30 mins. Loughborough station is located on the eastern edge of the town.

By Bus

You can take a National Express Bus from London to Loughborough or once arrived at Loughborough station you can take the Sprint bus service (Campus Bus No. 7 of Kinch Bus Company), which runs from the Train Station through the Town centre to the campus. Bus times are approximately every 20 minutes. At the final stop exit the bus and the University grounds at the West Entrance and walk about 5 mins to the hotel.
General Information

Alternatively, you can also take bus number 4 of the bus company ‘Paul S Winson’ (www.winsoncoaches.co.uk/TimeTables.php). You can take this bus from either from the Loughborough Train Station or from the Loughborough Town Centre. The bus will drop you in front of the Conference Hotel on the opposite side of the road (Ashy Road).

By Taxi

There is constant taxi service from the Loughborough Train Station or from the taxi stand at Loughborough Town centre.

By Car

From the M1: Exit the M1 at junction 23 and head towards Loughborough for one mile on the A512. The hotel is located on the left.

1.3 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.

1.4 Tickets

Extra tickets for the social event and lunches are available from the registration desk.

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

<table>
<thead>
<tr>
<th>conference dinner:</th>
<th>€ 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>lunch</td>
<td>€ 30</td>
</tr>
</tbody>
</table>

1.5 Registration

The ISC’2009 Registration Desk will be open for information and registration:

Monday, June 1 ...................  8.15 a.m. to 5.00 p.m. in the hallway
Tuesday, June 2................... 8.30 a.m. to 3.30 p.m. in the hallway
Wednesday, June 3 ............. 8.45 a.m. to 9.30 a.m. in the hallway

1.6 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-2009)
General Information

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

<table>
<thead>
<tr>
<th>ISC’2009 Proceedings</th>
<th>€ 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Proceedings –see price list at desk</td>
<td></td>
</tr>
</tbody>
</table>

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

1.7 Meeting Rooms

The meeting rooms will be designated and signposted as ROOM A-B-C at the conference.

- Plenary Session and Closing Session: ROOM A
  - ROOM A for the Keynote Speeches, Software presentations and sessions
  - ROOM B for the Invited Speech and sessions
  - ROOM C for sessions

1.8 Internet Connections

For internet connections contact the hotel.

1.9 Need Help?

Please see the conference desk for your questions.

1.10 Social Events and Lunches

All registrants are invited to

Lunches on Monday and Tuesday and Coffee Breaks will be served in the hotel.

The Conference Dinner

All participants are invited to the conference dinner which, will be held at the National Space Centre, Leicester. The dinner will be followed by a late night guided tour of the centre.

We will meet at 6.15 p.m. in front of the hotel where two busses will take us to the conference dinner site. These two busses will also take us back to the hotel after the dinner.
The Conference Visit
A visit is set for visiting two laboratories of Loughborough University. As the visit is limited to maximum 15 people per laboratory, participants will have to choose which laboratory they will wish to visit.
VISIT 1: Chemical Engineering Laboratory
VISIT 2: Aerospace Engineering Laboratory

1.12 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’2009 conference.

1.13 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

- Every Room has an LCD projector and an overhead projector
- 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.eurosisis.org
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.15-17.00</td>
<td>REGISTRATION</td>
</tr>
<tr>
<td>09.00-09.15</td>
<td>OPENING SESSION IN ROOM A</td>
</tr>
<tr>
<td>09.15-10.00</td>
<td>KEYNOTE ADDRESS BY ALISON NOBLE IN ROOM A</td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>COFFEE BREAK</td>
</tr>
<tr>
<td>10.30-12.30</td>
<td>PARALLEL SESSIONS</td>
</tr>
<tr>
<td></td>
<td>ROOM A: MULTIBODY SIMULATION</td>
</tr>
<tr>
<td></td>
<td>ROOM B: SENSORS AND PROCESS CONTROL</td>
</tr>
<tr>
<td></td>
<td>ROOM C: VALIDATION VERIFICATION AND OPTIMIZATION</td>
</tr>
<tr>
<td>12.30-14.00</td>
<td>LUNCH BREAK</td>
</tr>
<tr>
<td>14.00-15.00</td>
<td>KEYNOTE ADDRESS BY ADEL SHARIF IN ROOM A</td>
</tr>
<tr>
<td>15.00-15.30</td>
<td>COFFEE BREAK</td>
</tr>
<tr>
<td>15.30-18.00</td>
<td>PARALLEL SESSIONS</td>
</tr>
<tr>
<td></td>
<td>ROOM A: AI APPLIED TO MANUFACTURING</td>
</tr>
<tr>
<td></td>
<td>ROOM B: HOSPITAL INFRASTRUCTURE LOGISTICS</td>
</tr>
<tr>
<td></td>
<td>ROOM C: FLUID FLOW SIMULATION IN DESIGN</td>
</tr>
<tr>
<td></td>
<td>FREE EVENING</td>
</tr>
</tbody>
</table>

**MONDAY, 1st JUNE 2009**
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.30-15.30</td>
<td>REGISTRATION</td>
</tr>
<tr>
<td>09.00-10.00</td>
<td>SOFTWARE PRESENTATIONS IN ROOM A</td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>COFFEE BREAK</td>
</tr>
<tr>
<td>10.30-12.30</td>
<td>PARALLEL SESSIONS</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM A</strong></td>
</tr>
<tr>
<td></td>
<td>SIMULATION IN CIM I</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM B</strong></td>
</tr>
<tr>
<td></td>
<td>POROUS MEDIA AND CHEMICAL ENGINEERING SIMULATION I</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM C</strong></td>
</tr>
<tr>
<td></td>
<td>URBAN AND INTERMODAL TRAFFIC SYSTEMS I</td>
</tr>
<tr>
<td>12.30-14.00</td>
<td>LUNCH BREAK</td>
</tr>
<tr>
<td>14.00-15.00</td>
<td>PARALLEL SESSIONS</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM A</strong></td>
</tr>
<tr>
<td></td>
<td>SIMULATION IN CIM II</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM B</strong></td>
</tr>
<tr>
<td></td>
<td>POROUS MEDIA AND CHEMICAL ENGINEERING SIMULATION II</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM C</strong></td>
</tr>
<tr>
<td></td>
<td>INVITED TALK DUNCAN FORGAN</td>
</tr>
<tr>
<td>15.00-15.30</td>
<td>COFFEE BREAK</td>
</tr>
<tr>
<td>15.30-16.30</td>
<td>PARALLEL SESSIONS</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM A</strong></td>
</tr>
<tr>
<td></td>
<td>TEXTILE SIMULATION</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM B</strong></td>
</tr>
<tr>
<td></td>
<td>FLUID FLOW SIMULATION IN ENGINEERING APPLICATIONS</td>
</tr>
<tr>
<td></td>
<td><strong>ROOM C</strong></td>
</tr>
<tr>
<td></td>
<td>URBAN AND INTERMODAL TRAFFIC SYSTEMS II</td>
</tr>
<tr>
<td>16.30-17.30</td>
<td>Visit to the Loughborough University Research Labs</td>
</tr>
<tr>
<td>19.00 – 23.00</td>
<td>CONFERENCE DINNER</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>08.45-09.30</td>
<td>REGISTRATION</td>
</tr>
<tr>
<td>09.00-10.00</td>
<td>KEYNOTE ADDRESS BY PHILIP EAMES IN ROOM A</td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>COFFEE BREAK</td>
</tr>
<tr>
<td>10.30-12.30</td>
<td>PARALLEL SESSIONS</td>
</tr>
<tr>
<td></td>
<td>ROOM A</td>
</tr>
<tr>
<td></td>
<td>DISTRIBUTED/PARALLEL SIMULATION AND DATAMINING</td>
</tr>
<tr>
<td></td>
<td>ROOM B</td>
</tr>
<tr>
<td></td>
<td>PRODUCTION AND TRANSACTIONS LOGISTICS</td>
</tr>
<tr>
<td></td>
<td>ROOM C</td>
</tr>
<tr>
<td></td>
<td>PRODUCTION AND PRODUCT ANALYSIS</td>
</tr>
<tr>
<td>12.30-12.45</td>
<td>CLOSING SESSION AND BEST PAPER AWARD</td>
</tr>
</tbody>
</table>
Monday, 1st June 2009

HALLWAY
Registration
08.15 - 17.00

ROOM A
09.00 – 10.00

KEYNOTE
Opening ISC2009 and Welcome

Welcome Address

Diganta Bhusan Das
Loughborough University
ISC’2009 General Conference Chair

09.15 – 10.00

KEYNOTE SPEECH
Chair: Diganta Bhusan Das, Loughborough University, United Kingdom

Biomedical image analysis for in vivo soft tissue assessment
Prof Alison Noble
Monday, 1st June 2009

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

ROOM A- 10.30-12.30
MULTIBODY SIMULATION
Chair: Henk Versteeg, Loughborough University, Loughborough, United Kingdom

MULTI_01
Methodology for Flexible Modeling of Escalator Multibody Systems
Juan D. Cano-Moreno, José Mª Cabanellas Becerra, Carlos Labajo Tirado and Jesús Félez Mindán

MULTI_02
Spatial Kinematics of Gears in Absolute Coordinates
Dmitry Vlasenko and Roland Kasper

ROOM B- 10.30-12.30
SENSORS AND PROCESS CONTROL
Chair: Vahid Nassehi, Loughborough University, Loughborough, United Kingdom

COMPLEX_03
Multivariate Control Structure Synthesis for Fluid Catalytic Cracking Unit Using Relative Gain Array
Redah Alsabei, Zoltan K. Nagy and Vahid Nassehi

Parallel Sessions - Monday
Monday, 1st June 2009

CIM_02
Soft-sensor for on-line mass of crystals measurement: application to cane sugar crystallization
Cédric Damour, Michel Benne, Brigitte Grondin-Perez and Jean-Pierre Chabriat .......................................................... 257

ELEC_01
Design General Fuzzy Controller Implemented in VHDL and Synthesized using FPGA
Rasha E. Majed and Basil Sh. Mahmood.......................................................... 262

ENERG_01
Adjustment of conformity parameters of PID-type compensators using simulation by AMESim
Teodor Costinel Popescu, Iulian Dutu, Catalin Vasiliu and Marius Mitroi............... 269

ROOM C- 10.30-12.00

VERIF
VALIDATION, VERIFICATION AND OPTIMIZATION
Chair: Anna Syberfeldt, University of Skövde, Skövde, Sweden

METH_03
Parameter Validation using Constraint Optimization for Modeling and Simulation
Guodong Shao, Charles McLean, Alexander Brodsky and Paul Ammann.......... 21

VER_01
Applying a Documentation Guideline for Verification and Validation of Simulation Models and Applications: An Industrial Case Study
Zhongshi Wang, Heike Kißner and Martin Siems ........................................... 26

CIM_07
Performances evaluation and optimization of a failure-prone manufacturing system with random delivery time and random demand
Sadok Turki, Sophie Hennequin and Nathalie Sauer........................................ 31

12.30 - 14.00
LUNCH BREAK
Monday, 1st June 2009

14.00 – 15.00

ROOM A- 14.00-15.00

KEYNOTE

Chair: Vahid Nassehi, Loughborough University, Loughborough, United Kingdom

Simulations opportunities in membrane separation and colloidal interactions
Prof Adel Sharif

15.00 - 15.30

COFFEE BREAK

15.30 - 18.00

ROOM A- 15.30-18.00

MANUF

AI APPLIED TO MANUFACTURING
Chair: Guodong Shao, NIST, Gaithersburg, USA

CIM_01
A Hierarchical Object-Oriented Software Structure for Manufacturing Simulation
Lina A. M. Huertas Quintero, Andrew A. West, Diana M. Segura Velandia,
Paul P. Conway and Radmehr Monfared...................................................... 79

CIM_03
Knowledge Management of Sheet Hydroforming Process
Antonio Del Prete, Alfredo Elia and Gabriella Romano ...................................... 86
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROB_03</td>
<td>Memory Based Immune Network for Multi-Robot Cooperation</td>
<td>Sazalinsyah Razali, Qinggang Meng and Shuang-Hua Yang</td>
<td>91</td>
</tr>
<tr>
<td>METH_09</td>
<td>A fuzzy randomness approach for preventive and corrective maintenance</td>
<td>F. Aguirre, S. Hennequin and N. Rezg</td>
<td>97</td>
</tr>
<tr>
<td>METH_11</td>
<td>A threaded Java concurrent implementation of the Monte-Carlo Metropolis Ising model</td>
<td>Carlos Castañeda-Marroquín, Alfonso Ortega de la Puente, Manuel Alfonseca, James A. Glazier and Maciej Swat</td>
<td>103</td>
</tr>
<tr>
<td>ROOM B- 15.30-18.00</td>
<td>HOSPITAL INFRASTRUCTURE LOGISTICS</td>
<td>Chair: Jose Neves, Universidade do Minho, Braga, Portugal</td>
<td></td>
</tr>
<tr>
<td>HOS_06</td>
<td>Quality of Service in Transplantation via the Electronic Medical Record</td>
<td>David Belo, Miguel Miranda, Antonio Abelha, Jose Machado and Jose Neves</td>
<td>203</td>
</tr>
<tr>
<td>HOS_05</td>
<td>System Dynamics Approach for Modelling Complex Healthcare Systems</td>
<td>Ruby Wai Chung Hughes and Terrence Perera</td>
<td>209</td>
</tr>
<tr>
<td>HOS_01</td>
<td>Paediatric palliative care planning: models and simulation</td>
<td>Giada Aspergh, Paola Facchin, Anna Ferrante, Laura Visonà Dalla Pozza and Giorgio Romanin Jacur</td>
<td>214</td>
</tr>
<tr>
<td>HOS_02</td>
<td>Birth and perinatal assistance network on the territory: model and simulation of service dynamical behaviour</td>
<td>Paola Facchin, Anna Ferrante, Elena Rizzato, Laura Salmaso and Giorgio Romanin-Jacur</td>
<td>219</td>
</tr>
<tr>
<td>HOS_03</td>
<td>Critical newborn assistance in intensive care units: model and simulation</td>
<td>Monica Da Frè, Paola Facchin, Elena Rizzato, Laura Salmaso, Laura Visonà Dalla Pozza and Giorgio Romanin-Jacur</td>
<td>222</td>
</tr>
</tbody>
</table>
Monday, 1st June 2009

ROOM C- 15.30-17.00
FLUID FLOW SIMULATION IN DESIGN
Chair: Navraj Hanspal, University of Manchester, Manchester, United Kingdom

CIM_04
Numerical Simulation of Refrigerant Flow Through Adiabatic Capillary Tube: A Comparison between Homogeneous Equilibrium Model (HEM), Delayed Equilibrium Model (DEM) and Improved Delayed Equilibrium Model (IDEM)
Abdul Qaiyum Shaik and Henk Versteeg ................................................................. 287

HOS_04
Simulation Based Optimization of Microneedle Geometry to Improve Drug Permeability in Skin
Ololade Olatunji, Diganta B Das and Barrak Al-Qallaf ............................................. 293

ENG_05
Modelling of Flashing Propellant Flow in Pressurised Metered Dose Inhalers
Henk Versteeg and Abdul Qaiyum Shaik ................................................................. 301

FREE EVENING
Tuesday, 2\textsuperscript{nd} June 2009

HALLWAY
Registration
08.30 - 15.30

09.00 – 10.00

ROOM A- 09.00-10.00
SOFTWARE PRESENTATION
Chair: Navraj Hanspal, University of Manchester, Manchester, United Kingdom

The CIROS® 3-D Simulation System for Industry and Education
Roland Wischnewski

10.00 - 10.30
COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.00
SIMULATION IN CIM I
Chair: Roland Wischnewski, RIF e.V, Dortmund, Dortmund, Germany

ENG_03
New SysML based approach for integrated system design
G. Auriol and C. Baron ............................................................... 111

TEX_04
A Virtual Enterprise Application for the Textile and Apparel Industry
Antonela Curteza, Daniela Farima, Ovidiu Stoica and Liviu Lupu ......................... 116
Tuesday, 2nd June 2009

LOGIS_03
Embedding Simulation in Lean Projects
Yan Jia and Terrence Perera ................................................................. 122

ROOM B- 10.30-12.00
CHEM
POROUS MEDIA AND CHEMICAL ENGINEERING SIMULATION I
Chair: Diganta Bhusan Das, Loughborough University, Loughborough, United Kingdom

COMPLEX_02
Modelling of three dimensional Darcy flow through soils
Bahareh Kaveh-Bagbaderani, Vahid Nassehi and Abhijeet Kulkarni .................. 309

PET_01
Mathematical modelling of Biofilm Growth
Yi-Ping Lo, John Ward, Felipe Iza, Rob Seager and Michael Kong ......................... 315

CHEM_02
Modelling, Simulation and Control of a Semi-Batch Industrial Polymerization Reactor
Nadja Hvala, Teodora Miteva and Dolores Kukanja ........................................... 318

ROOM C- 10.30-12.30
TRAF
URBAN AND INTERMODAL TRAFFIC SYSTEMS I
Chair: Giorgio Romanin-Jacur, University of Padova, Vicenza, Italy

AERO_01
Analyzing in Flight Air Hostess Tasks through Discrete Event Simulation
Mehmet Savsar and Esra E. Aleisa .............................................................. 165

LOGIS_05
A Software Environment for Microscopic Pedestrian Simulation
Edgar F. Esteves, Rosaldo J. F. Rossetti and Eugénio C. Oliveira .......................... 173

LOGIS_07
Using Heuristic Search for Initiating the Genetic Population in Simulation Based Optimization of Vehicle Routing Problems
Anna Syberfeldt and Lars Persson ................................................................. 178
Tuesday, 2nd June 2009

LOGIS_06
Towards a Microscopic Traffic Simulation Framework to Assess Vehicle-to-Vehicle Networks
João F. B. Gonçalves, Rosaldo J. F. Rossetti, Edgar F. Esteves and Eugénio C. Oliveira................................................................. 183

12.30 - 14.00
LUNCH BREAK

14.00 - 15.00

ROOM A- 14.00-15.00  
CIM
SIMULATION IN CIM II
Chair: Liberato Camilleri, University of Malta, Msida, Malta

CIM_06
Software Tools Integration for the Design of Manufacturing Systems
Pavel Vik, Guilherme Pereira and Luís Dias ................................................................. 127

ROB_01
Optimization of Industrial Robot Work Cells using the Automated Variant Simulation
Jürgen Roßmann, Roland Wischnewski and Patrick Lenk ........................................ 133

ROOM B- 14.00-15.00  
CHEM
POROUS MEDIA AND CHEMICAL ENGINEERING SIMULATION II
Chair: Vahid Nassehi, Loughborough University, Loughborough, United Kingdom

CHEM_01
Solving Challenging Problems in the Oil Industry using Artificial Intelligence Based Tools
Ana Vila Fernandes, Henrique Vicente and José Neves ........................................ 325

CHEM_03
Multi Project Scheduling in the Chemical Industry using a Genetic Algorithm
Sven Tackenberg, Sebastian Schneider and Christopher M. Schlick ................. 332
Tuesday, 2nd June 2009

ROOM B- 14.00-15.00
INVITED TALK
Chair: Carlos Castañeda-Marroquín, Universidad Autónoma de Madrid, Madrid, Spain

SETI: A New Monte Carlo Approach
Duncan Forgan

15.00 - 15.30
COFFEE BREAK

15.30 – 16.30

ROOM A- 15.30-16.30
TEXTILE SIMULATION
Chair: TBA

TEX_01
Statistical Analysis of the Results of Some Technologies for Cotton Fireproofing
Vasilica Popescu, Liliana–Rozemarie Manea and Gabriel Popescu......................... 347

TEX_02
Objective Hierarchization of Some Technologies for Cotton Fireproofing
Vasilica Popescu, Liliana–Rozemarie Manea and Gabriel Popescu......................... 352

ROOM B- 15.30-16.30
FLUID FLOW SIMULATION IN ENGINEERING APPLICATIONS
Chair: Phil Eames, Loughborough University, Loughborough, United Kingdom

AERO_02
Notes on the Implementation of Brownian motion in Mesoscopic Fluid Particle Models
Massimo Lai and Dimitris Drikakis ................................................................. 277
Tuesday, 2nd June 2009

AERO_03
Estimation of Longitudinal Aerodynamics of a Transport Aircraft Using FDR Data through Neural Networks
Ming-Hao Yang, Cijing-Shun Ho, Fei-Bin Hsiao, C. Edward Lan and Chien-Chun Kung

ROOM C - 15.30-16.30
URBAN AND INTERMODAL TRAFFIC SYSTEMS II
Chair: Esra Aleisa, Kuwait University, Safat, Kuwait

LOGIS_08
Development and Evaluation of Traffic Management Strategies for Personal Rapid Transit
Pengjun Zheng, David Jeffery and Mike McDonald

LOGIS_01
Microsimulation Models in Intermodal Container Terminals ordinary and perturbed Conditions
Vincenzo Assumma and Antonino Vitetta

UNIVERSITY VISIT - 16.30 – 17.30
A visit is set for visiting two laboratories of Loughborough University. As the visit is limited to maximum 15 people per laboratory, participants will have to choose which laboratory they will wish to visit.
VISIT 1: Chemical Engineering Laboratory
VISIT 2: Aerospace Engineering Laboratory
Please indicate which laboratory you wish to visit on the Monday

CONFERENCE DINNER – 19.00 -23.00
The conference dinner will be held at the National Space Centre
Exploration Drive,
Leicester, LE4 5NS
Tel: +44.116.261.0261
Email: info@spacecentre.co.uk
The dinner will be followed by a late night guided tour of the centre.
We will meet at 6.15 p.m. in front of the hotel where two busses will take us to the conference dinner site. These two busses will also take us back to the hotel after the dinner.
Wednesday, 3rd June 2009

HALLWAY
Registration
08.45 - 09.30

09.00 – 10.00

ROOM A- 09.00-10.00
KEYNOTE PRESENTATION
Chair: Henk Versteeg, Loughborough University, Loughborough, United Kingdom

The application of modelling and simulation in Renewable Energy Systems
Professor Philip Eames

10.00 - 10.30
COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.00
METH
DISTRIBUTED/PARALLEL SIMULATION AND DATAMINING
Chair: TBA

<table>
<thead>
<tr>
<th>ENG_01</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARMAX – A Predictor for Distributed Time Series</td>
</tr>
<tr>
<td>Dan Stefanoiu and Janetta Culita</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>METH_10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Extraction from Solution Set of Simulation-based Multi-objective Optimisation using Data Mining</td>
</tr>
<tr>
<td>Catarina Dudas, Amos Ng and Henrik Boström</td>
</tr>
</tbody>
</table>
Wednesday, 3rd June 2009

METH_08
Using Ant Colony in optimizing Associative Classification
Kifaya Qaddoum ................................................................. 70

ROOM B- 10.30-12.30
PRODUCTION AND TRANSACTIONS LOGISTICS
Chair: TBA

CIM_05
Understanding Supply Chain Performance by Simulation
Alejandra Gomez-Padilla ..................................................... 141

ELEC_02
Simulation of a Milk Run Material transportation System in the Semiconductors Industry
Ricardo Raposo, Guilherme Pereira and Luís Dias ...................... 144

LOGIS_04
Implementation Steps for Development of a simulation Application Software for Production Scheduling and Door-to-Door Logistics Management of a Multi-Assembly-Lines Automotive Vehicle Manufacturing Plants
Hossein Hosseinzadeh, Mohsen Bahrami and Alireza Hosseinzadeh .......... 152

LOGIS_09
A study on transaction scheduling in a real-time distributed system
Y. Jayanta Singh, Hasan Al-Saedy and S.C. Mehrotra ............................... 157

ROOM C- 10.30-12.30
PRODUCTION AND PRODUCT ANALYSIS
Chair: TBA

COMPLEX_01
Linear and Nonlinear Input Output Analysis
William Conley ...................................................................... 39

METH_04
Latent Class Mixture models for analyzing rating responses
Liberato Camilleri ................................................................. 42
Wednesday, 3rd June 2009

DES_01
Predicting Post Machining Distortions via FE Simulations at Design Phase
Waqas Saleem and Fan Yuqing

ENG_04
On-Line Fault Detection of a Close Loop Circuit Hydraulic System with a Variable Displacement Pump
C. Angeli and A. Chatzinikolaou

AUTO_01
Comparison of Steel, Aluminum and Composite Bonnet Concerning Adult/Child Pedestrian Protection
Abolfazl Masoumi and Amir Najibi

ROOM A 12.30 - 12.45
BEST PAPER
CLOSING SESSION AND BEST PAPER AWARD
Chair: Diganta Bhusan Das, Loughborough University, Loughborough, United Kingdom

SEE YOU ALL
JUNE 7-9, 2010
FOR ISC’2010
IN
BUDAPEST, HUNGARY

Track proposals and tutorial proposals can be sent in by August 15th, 2009 to philippe.geril@eurosis.org
Conference Site Maps

Conference Location 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.

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: .............................................................................................................  
Address: ...........................................................................................................  
..........................................................................................................................  
..........................................................................................................................  
Telephone ........................................................................................................  
Fax: .................................................................................................................  
Email: .............................................................................................................