

# FINAL PROGRAM



26-28 October 2009



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UKRI-SPC



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## General Information

### 1. Conference Location

The Conference is being held at

The **ESM'2009** conference is held at the  
 The [Holiday Inn Leicester](#)  
 129 St.Nicholas Circle  
 LE1 5LX Leicester, United Kingdom  
 Tel: +44-871-9429048  
 Fax: +44-116-2513169

The registration desk will be placed in the hallway of the **of the hotel left of the hotel entrance** from Monday morning October the 26<sup>th</sup> onwards, where registration will start at 08.00 and will end at 5.00 p.m..On Tuesday October 27<sup>th</sup> 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

<b>Extra conference dinner</b>	<b>€60</b>
<b>Extra lunch ticket</b>	<b>€25</b>

### 4. Registration

The ESM'2009 Registration Desk will be open for information and registration:

**Monday, October 26..... 8.00 a.m. to 5.00 p. m.**  
**Tuesday, October 27..... 8.30 a.m. to 5.00 p. m.**  
**Wednesday, October 28.....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'2009**)

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

ESM'2009 Proceedings CASH AND CARRY	€50
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## 6. Meeting Rooms

The meeting rooms are designated A and B. The way to the rooms will be signposted. WIFI-Internet is available ask at the hotel reception.

## 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 **Holiday Inn**. **Participants need to show the relevant tickets at the entrance to the restaurant.**

### Visit to DMU

Two groups are envisaged to leave and visit DMU. The first group would leave at 12.45, while the second group would leave at 13.15

### The Conference Dinner

All participants are invited to the conference dinner on **TUESDAY** the 27<sup>th</sup> 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 at the Lahore Karahi Restaurant (further information can be found in the programme on page 21)

We will meet at 7.30 p.m. in front of the Holiday Inn at the main entrance 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.

## General Information

### 9. Room Legend

The meeting rooms will be designated ROOM A and B .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'2009 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, 26<sup>th</sup> OCTOBER 2009****08.00-17.00** REGISTRATION**09.00-09.15** OPENING SESSION AND WELCOME BY MARWAN AL-AKAIDI**09.15-10.00** KEYNOTE ADDRESS BY ADRIAN HOPGOOD ROOM A**10.00-10.30** COFFEE BREAK**10.30-12.30** PARALLEL SESSIONS

ROOM A

ROOM B

AGENT  
BASED  
COMPLEX  
SIMULATIONLOGISTICS  
WAREHOUSING  
UTILITY  
TOOLS**12.30-14.00** LUNCH BREAK**14.00-15.00** PARALLEL SESSIONS

ROOM A

ROOM B

WATER MANAGEMENT  
FLUID FLOW SIMULATION  
IMODELLING  
ENVIRONMENTS**15.00-15.30** COFFEE BREAK**15.30-18.30** PARALLEL SESSIONS

ROOM A

ROOM B

SIMULATION  
TOOLSHEALTH SERVICE  
MANAGEMENT**FREE EVENING**

**TUESDAY, 27<sup>th</sup> OCTOBER 2009**

08.30-17.00	<b>REGISTRATION</b>	
09.00-10.00	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>ENGINEERING SIMULATION</b>	<b>BACK-UP SESSION</b>
10.00-10.30	<b>COFFEE BREAK</b>	
10.30-12.30	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>WATER MANAGEMENT FLUID FLOW SIMULATION II</b>	<b>MANUFACTURING MANAGEMENT TOOLS I</b>
12.00-14.00	<b>LUNCH BREAK AND VISIT TO DMU</b>	
14.00-15.00	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>INVITED SPEAKER</b>	<b>MANUFACTURING MANAGEMENT TOOLS II</b>
15.00-15.30	<b>COFFEE BREAK</b>	
15.30-18.00	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>BEHAVIOURAL MODELLING</b>	<b>DATA SIMULATION AND STORAGE AND DECISION SUPPORT SYSTEMS</b>
20.00 – 23.00	<b>CONFERENCE DINNER</b>	



<b>WEDNESDAY, 28<sup>th</sup> OCTOBER 2009</b>		
<b>08.30-09.30</b>	<b>REGISTRATION</b>	
<b>09.00 10.00</b>	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>INVITED SPEAKER</b>	<b>ENERGY SIMULATION</b>
<b>10.00-10.30</b>	<b>COFFEE BREAK</b>	
<b>10.30 12.30</b>	<b>PARALLEL SESSIONS</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>MODULAR SIMULATION AND DESIGN</b>	<b>MODEL VERIFICATION VALIDATION AND EVALUATION</b>
<b>12.30-12.45</b>	<b>CLOSING SESSION AND BEST PAPER AWARD ROOM A</b>	

# Notes

## NOTES

**Monday, 26<sup>th</sup> October 2009**

**HALLWAY**

**Registration**

**08.00 - 17.00**

**ROOM A**

**09.00 – 10.00**

**Opening ESM'2009 and Welcome**

**Welcome Address**

**Prof. Marwan Al-Akaidi  
De Montfort University  
ESM2009 General Conference Chair**

**09.15 – 10.00**

**KEYNOTE SPEECH**

**Chair: Marwan Al-Akaidi, De Montfort University, Leicester, UK**

**Hybrid Systems: The Future of Artificial Intelligence?**

Adrian Hopgood

**Welcome**

**Monday, 26<sup>th</sup> October 2009**

**10.00 - 10.30  
COFFEE BREAK**

**10.30 – 12.30**

**ROOM A- 10.30-12.30 AI**

**AGENT BASED COMPLEX SIMULATION**

**Chair:** Jose Neves, Universidade do Minho, Braga, Portugal

**AGENT\_01**

**Experimental Study of Agent Population Models with a Specific Attention to the Discretization Biases**

Pierre Chevaillier, Stéphane Bonneaud, Gireg Desmeulles and

Pascal Redou ..... **323**

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**Actor and Observer Processes of Normative Agents in Social Simulations**

Ulf Lotzmann and Michael Möhring ..... **332**

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**A Synchronization Protocol for Distributed Agent Based Simulations with Constrained Optimism**

Dirk Pawlaszczyk and Steffen Strassburger ..... **337**

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**Coupled Atmosphere Wildfire Model for Piloted Flight Simulation of Aerial Fire Fighting Operations**

Luca Cistriani, Sebastiano Bonfiglio and Nicola Stella ..... **388**

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**LOGISTICS WAREHOUSING UTILITY TOOLS**

**Chair:** Michel Gourgand, Universite Blaise Pascal, Aubiere, France

**COMPLEX\_05**

**Dynamic Routing Strategies for Automated Container Terminals**

Su Min Jeon, Mark B. Duinkerken and Gabriel Lodewijks ..... **109**

# Monday, 26<sup>th</sup> October 2009

## METH\_15

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Maria do Rosário Alves Moreira ..... 141

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Osama S. Younes, Wail S. Elkilani and Nigel Thomas ..... 54

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Benjamin Heckmann, Ingo Stengel, Günter Turetschek and Andy Phippen ..... 175

**12.30 - 14.00**

**LUNCH BREAK**

**14.00 – 15.00**

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**ROOM A- 14.00-15.00**

**ENVIRONMENT**

**WATER MANAGEMENT/FLUID FLOW SIMULATION I**

**Chair:** Andrzej Urbaniak, Poznan Univ. of Techn., Poznan, Poland

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**Some Algorithms supporting the Computer Aided Management of Communal Water Nets**

Jan Studzinski..... 345

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**Modeling and Simulation for predicting Water-Flow Based on RBF Neural Network**

Zaiwen Liu, Xiaoyi Wang and Jiping Xu ..... 350

**ROOM B- 14.00-15.00**

**METH**

**MODELLING ENVIRONMENTS**

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

## BIO\_01

**OPTFERM-A Computational Platform for the Optimization of Fermentation Processes**

Orlando Rocha, Paulo Maia, Isabel Rocha and Miguel Rocha..... 5

**Monday, 26<sup>th</sup> October 2009**

**BIO\_02**  
**MLPS: A Method for Modeling Livestock Production Systems**  
Laurent Pérochon ..... 10

**15.00 - 15.30**  
**COFFEE BREAK**

**15.30 - 18.30**

**ROOM A- 15.30-18.30** **METH**  
**SIMULATION TOOLS**  
**Chair:** Norbert Adamko, University of Zilina, Zilina, Slovak Republic

**ENV\_02**  
**Evaluation of Four Artificial Lighting Simulation Tools with Virtual Building Reference**  
Shariful H. Shikder, Andrew D. Price and Monjur M. Mourshed ..... 77

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 Masoud Najafi and Zakia Benjelloun-Dabaghi ..... 83

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**Experiences of using the PEPA Performance Modelling Tools with a Non-Repudiation Protocol**  
Yishi Zhao and Nigel Thomas ..... 95

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 Chong-Wee Simon See, Chee-Kian Melvin Koh, Che-Wing Cheung,  
 Douglas Finnigan and Joon Jew Liow ..... 101

# Monday, 26<sup>th</sup> October 2009

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**Data Placement and Migration Strategies for Virtualised Data Storage Systems**

H.A. Bond, N.J. Dingle, F. Franciosi, P.G. Harrison and W.J. Knottenbelt..... 231

## ROOM B- 15.30-18.30

## HEALTH

### HEALTH SERVICE MANAGEMENT

**Chair:** Paulo Novais, Universidade do Minho, Braga, Portugal

## COMPLEX\_01

**Human resources integration in complex systems modeling: application to the health care systems**

Michelle Chabrol, Michel Gourgand and Sophie Rodier ..... 189

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**Methodological approach and decision-making aid tool for the hospital systems: Application to an emergency department**

Julie Chauvet, Michel Gourgand and Sophie Rodier ..... 197

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**Interoperability and Healthcare**

Miguel Miranda, Júlio Duarte, António Abelha, José Machado and

José Neves ..... 205

## AGENT\_05\_BIO

**Modelling and Simulation of the Stomatology Service for the Rmuho**

Khaled Belkadi and Alain Tanguy ..... 213

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**Memory Assistant in Everyday Living**

Ângelo Costa, Paulo Novais, Ricardo Costa and José Neves..... 269

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Simonetta Balsamo and Andrea Marin..... 26

**FREE EVENING**

**Tuesday, 27<sup>th</sup> October 2009**

**HALLWAY**

**Registration**

**08.30 - 17.00**

**09.00 – 10.00**

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**ROOM A- 09.00-10.00**

**INDUSTRY**

**ENGINEERING SIMULATION**

**Chair:** Eugeniusz Sroczan, Poznan Univ.of Techn., Poznan, Poland

**METH\_11**

**Reduced Simulation's Model of a Wheel Loader by using the Bond Graph technique to use in Training Simulators**

G. Romero, J. Félez, J. Maroto and J. D. Sanz ..... 161

**N\_02**

**On Line Fault Diagnosis of a Diesel Engine**

Chady Nohra, Hassan Noura and Rafic Younes..... 168

**ROOM B- 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.

**10.00 - 10.30**

**COFFEE BREAK**



# Tuesday, 27<sup>th</sup> October 2009

10.30 - 12.30

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**ROOM A- 10.30-12.30** **ENVIRONMENT**  
**WATER MANAGEMENT/FLUID FLOW SIMULATION II**  
**Chair:** Jan Studzinski, Polish Academy of Sciences, Warsaw, Poland

**ENV\_07**

**Simulation Tools for the Choice of Water Treatment Technology**

Marek M. Sozański and Andrzej Urbaniak ..... 356

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Ilie Prisecaru, Daniel Dupleac and Niță Iulian Pavel ..... 361

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**Simulation of the 'GP' MTD Device intended for the Extraction of Blood Clots by using the Bond Graph Technique**

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**ROOM B- 10.30-12.00** **INDUSTRY**  
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**Chair:** Sofie van Volsem, Ghent University, Ghent, Belgium

**PAR\_03**

**Adapting an Evolutionary Algorithm with Embedded Simulation and Pseudo-Random Number Generation for the Cell Broadband Engine**

Sofie Van Volsem and Sven Neiryck..... 282

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Tim Govaert, Sven Neiryck, Sofie Van Volsem and Hendrik Van Landeghem..... 114

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Ali G. Shetwan and Valentin I. Vitanov ..... 131

**12.00 - 14.00**

#### LUNCH BREAK AND VISIT TO DMU (from 12.45 to 13.55)

Two groups are envisaged to leave and visit DMU. The first group would leave at 12.45, while the second group would leave at 13.15

**14.00 - 15.00**

**ROOM A- 14.00-15.00**

**INVITED**

**INVITED SPEAKER**

**Chair:** Marwan Al-Akaidi, De Montfort University, Leicester, UK

**XXXX**

**The Modelling 4All Project: a Web based modeling tool embedded in Web 2.0**

Ken Kahn

**ROOM B- 14.00-15.00**

**INDUSTRY**

**MANUFACTURING MANAGEMENT TOOLS II**

**Chair:** David Hill, Universite Blaise Pascal, Aubiere, France

**COMPLEX\_07**

**Optimization of Car Repair Processes by Scattered Context Grammars**

**Application**

Šárka Květoňová and Dušan Kolář ..... 146

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R. Guillerm, H. Demmou and N. Sadou ..... 150

**15.00 - 15.30**

**COFFEE BREAK**

# Tuesday, 27<sup>th</sup> October 2009

15.30 – 17.30

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**ROOM A- 15.30-18.00** **AI**  
**BEHAVIOURAL MODELLING**  
**Chair:** Christophe Laroque, Heinz Nixdorf Institute, Paderborn, Germany

**METH\_03**  
**Modeling Motorway Driving Behaviour using Microscopic Vehicle Trajectory Data**  
Abs Dumbuya and George Lunt..... 291

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Rawan Ghnemat, Cyrille Bertelle and Gérard H.E. Duchamp ..... 302

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**Chair:** Marwan Al-Akaidi, De Montfort University, Leicester, UK

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Ignazio Infantino, Carmelo Lodato and Salvatore Lopes ..... 226

## Tuesday, 27<sup>th</sup> October 2009

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#### Datapath Architecture Simulation

Venkatesh Kannan, Marc Voorhoeve and Lou Somers ..... 238

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#### Design of a Decision Making Support within Agent-Based Simulations reflecting Railway Traffic

Antonin Kavička and Michael Bažant ..... 251

### AI\_03

#### Development of Decision Support and Simulation System BPsim.DSS: Integration of Simulation, expert Situational and Multi-Agent Modeling

Konstantin A. Aksyonov, Eugene A. Bykov, Olga P. Aksyonova, Wang Kai, Alexey V. Popov, Elena F. Smolij, Ekaterina M. Sufrygina, Irina A. Spitsina and Alexey A. Sheklein ..... 256

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#### Decision Support System for a regional spreading of A/H1N1 Influenza Virus

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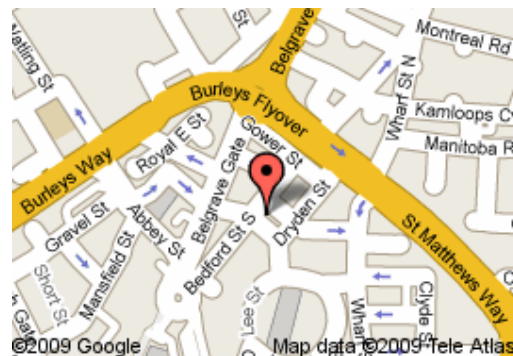
## CONFERENCE DINNER – 20.00 -23.00



**Lahore Karahi Restaurant**  
**23-25 Bedford Street South**  
**LE1 3JR Leicester**

Tel: +44 116 253 1717

Fax: +44-116-2513169



# Wednesday, 28<sup>th</sup> October 2009

## HALLWAY

Registration

08.30 - 09.30

09.00 – 10.00

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**ROOM A- 09.00-10.00**

**INVITED**

**INVITED SPEECH**

**Chair:** Marwan Al-Akaidi, de Montfort University, Leicester, UK

**INV\_02**

**Putting a Heart into a Box: GPGPU Simulation of a Cardiac Model on the Xbox 360**

Simon Scarle

**ROOM B- 09.00-10.00**

**INDUSTRY**

**ENERGY SIMULATION**

**Chair:** Tim Govaert, Ghent University, Ghent, Belgium

**COMPLEX\_06**

**The Simulation of the Energetic Characteristics of Hydropower Plants and Wind Farms applied to the Cost Analysis of Electricity Generation in the Power System**

Eugeniusz M. Sroczan..... 181

**PAR\_06**

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Dariusz Bober and Henryk Kapron..... 184

**10.00 - 10.30**

**COFFEE BREAK**

## Wednesday, 28<sup>th</sup> October 2009

10.30 - 12.30

**ROOM A- 10.30-12.00** **METH**

### MODULAR SIMULATION AND DESIGN

Chair: Andrzej Urbaniak, Poznan Univ. of Techn., Poznan, Poland

#### PAR\_01\_DEVS

**A Python Validation of the Multilayer DEVS Theory: Case of a Catchment Basin**

Emilie Broutin, Paul Bisgambiglia and Jean-François Santucci..... 15

#### METH\_04

**A Software Component which generates Regular Numbers from refined Descriptive Sampling**

Megdouda Ourbih-Tari, Abdelouhab Aloui and Amine Alioui..... 23

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**Enhancing Discrete Simulation Executive with Simple Continuous Simulation and Animation Support**

Norbert Adamko..... 35

**ROOM B- 10.30-12.30** **METH**

### MODEL VERIFICATION, VALIDATION AND EVALUATION

Chair: Marwan Al-Akaidi, De Montfort University, Leicester, UK

#### METH\_05

**A Formal Definition of Simulation Validity**

Vincent Albert and Alexandre Nketsa..... 43

#### METH\_12

**Concepts for Model Verification and Validation during Simulation Runtime**

Wilhelm Dangelmaier, Robin Delius, Christoph Laroque and

Matthias Fischer ..... 49

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**A Simulation Model for Evaluating Distributed Systems Dependability**

Ciprian Dobre, Florin Pop and Valentin Cristea ..... 62

**Wednesday, 28<sup>th</sup> October 2009**

**METH\_09**

**Monte Carlo and Latin Hypercube Methods through a Case Study**

Samy Mziou .....70

**ROOM A 12.30 - 12.45**

**BEST PAPER**

**CLOSING SESSION AND BEST PAPER AWARD**

**Chair: Marwan Al-Akaidi, De Montfort University, Leicester, United Kingdom**

**SEE YOU ALL  
OCTOBER 25-27, 2010  
FOR ESM'2010**

**At Hasselt University, Hasselt  
Belgium**

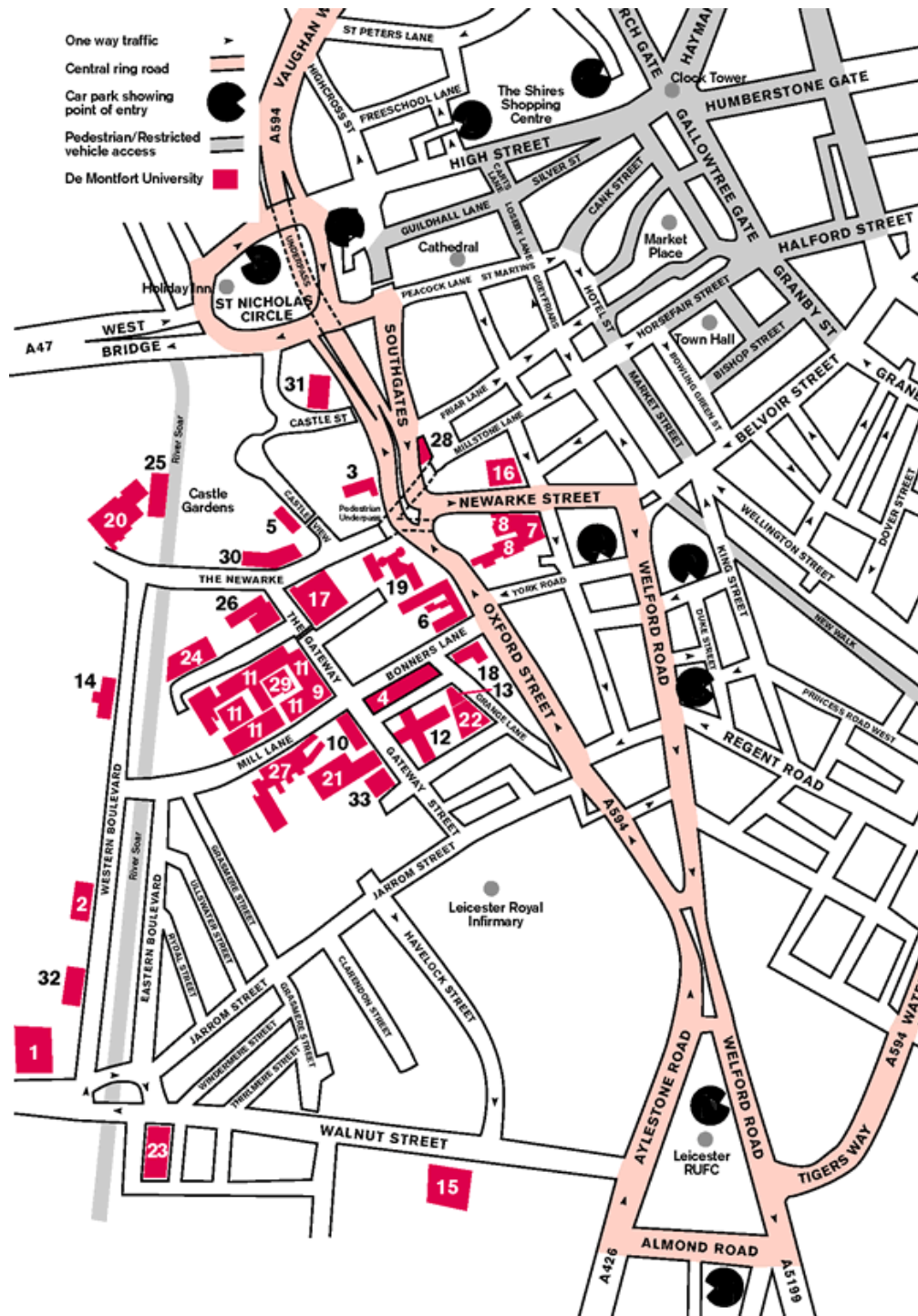
**Track proposals and tutorial proposals can be sent in by  
January 30<sup>th</sup>, 2010**

**Information  
On all 2010 EUROSIS  
Events can be found on  
<http://www.eurosis.org>**

**Parallel Sessions - Wednesday**

# Conference Site Map

## LEICESTER HOTEL LOCATION AND DMU





# 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

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