

# Final Program



11-13 June 2007



Delft University of Technology

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## General Information

### 1.1 Conference Location

The Conference itself is held at

**Delft University of Technology  
Faculty of Mechanical, Maritime and Materials Engineering  
Mekelweg 2  
2628 CD Delft, The Netherlands**

The registration desk will be placed in the hallway in front of the meeting rooms on the first floor. Registration will start on Monday at 8.30 a.m. till 5.00 p.m. On Tuesday it will be from 8.30 a.m. - 5.00 p.m. with Wednesday registration only from 9.00 a.m.- 09.30. a.m.

**ALL MAPS ARE AT THE BACK OF THIS PROGRAMME**

### 1.2 How to get there

#### By Air

When arriving in the Netherlands, you will most likely arrive at Shiphol Airport near Amsterdam. At the airport itself you can transfer to the rail network. You can either take a train to The Hague/Rotterdam and change trains at The Hague Holland Spoor or go on to Rotterdam, change trains there and return to Delft. In both cases the distance to Delft is about 20 mins.

#### By Bus

The TU Campus can be reached from Delft Station with the district lines 69, 121 or 129.

#### By Car

The TU Campus is easily accessible by car via the A13, exit Delft/Pijnacker and exit Delft Zuid/TU-wijk.

### 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.

# General Information

## 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

|                    |     |
|--------------------|-----|
| conference dinner: | €60 |
| lunch              | €30 |

## 1.5 Registration

The **ISC'2007** Registration Desk will be open for information and registration:

**Monday, June 11 .....8.15 a.m. to 5.00 p. m. in the hallway**  
**Tuesday, June 12 .....8.30 a.m. to 5.00 p. m. in the hallway**  
**Monday, June 13 .....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-2007)

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

|   |     |
|---|-----|
| ISC'2007 Proceedings                      | €50 |
| Other Proceedings –see price list at desk |     |

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: ROOM A (next to Faculty Room)**

**ROOM A= ZAAL E**

**ROOM B= ZAAL F**

**ROOM C= ZAAL R (Tuesday and Wednesday) -S (Monday)**

**Closing Session: ZAAL E or F**

## General Information

### 1.8 Internet Connections

**Guest accounts** to use the **WIFI network** have been requested for the duration of the conference. More information will be available at the conference.

### 1.9 Need Help?

Please see the conference desk for your questions

### 1.10 Social Events and Lunches

**All registrants are invited to**

The **get-together party** on **Monday June 11<sup>th</sup> at 5.00 p.m.**

Lunches on Monday and Tuesday and Coffee Breaks will be served at the Delft University of Technology in the **room at the back of the main corridor, which links the meeting rooms.**

#### **The Conference Dinner**

All participants are invited to the conference dinner which, **will be held at the Teeschenkerij Rieten Dak on the 12<sup>th</sup> of June from 7.00 p.m. onwards.** As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Monday evening.** (for those who have as yet not done so)



Participants will be able to go there and back by horse tram.

#### **The Conference Visit and Industrial Design Exhibition**

On the morning of Tuesday the 12<sup>th</sup> of June, participants will be taken to visit a couple of labs at Delft University of Technology. The visit will last 1 hour and will visit the labs of maritime technology.

During the conference the faculty where we are, will organize together with the “Leeghwater” society an industrial design exhibition and competition –theme this year is Bicycles-, from 11.00 am onwards. After the exhibition, there will be free drinks for everyone and a show given by the Dutch rapper Ali.B. This will coincide with the end of sessions on Day 2.

## General Information

### 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'2007 conference.

### 1.13 Paper Legend:

Each paper is designated before each paper by it's 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.eurosis.org>**

|  |   |   |   |
|--|---|---|---|
| <b>MONDAY, 11<sup>th</sup> JUNE 2007</b> |   |   |   |
| 08.15-17.00                              | <b>REGISTRATION</b>   |   |   |
| 09.00-09.15                              | <b>OPENING SESSION IN THE MAIN ROOM –ZAAL A</b>                             |   |   |
| 09.15-10.00                              | <b>KEYNOTE ADDRESS BY BERT VAN BEEK, EINDHOVEN UNIVERSITY OF TECHNOLOGY</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>ROOM C</b>                                       |
|  | <b>COMPLEX SYSTEMS SIMULATION METHODOLOGY</b>                               | <b>PRODUCTION SCHEDULING AND MATERIALS HANDLING</b> | <b>NUCLEAR ENERGY AND PETROCHEMICAL ENGINEERING</b> |
| 12.30-14.00                              | <b>LUNCH BREAK</b>  |   |   |
| 14.00-15.00                              | <b>PARALLEL SESSIONS</b>  |   |   |
|  | <b>ROOM A</b>   | <b>ROOM B</b>                                       | <b>ROOM C</b>                                       |
|  | <b>STEEL MANUFACTURING SIMULATION I</b>                                     | <b>SCHEDULING OPTIMIZATION AND ANALYSIS</b>         | <b>PRODUCT PRESENTATION</b>                         |
| 15.00-15.30                              | <b>COFFEE BREAK</b>   |   |   |
| 15.30-17.30                              | <b>PARALLEL SESSIONS</b>  |   |   |
|  | <b>ROOM A</b>   | <b>ROOM B</b>                                       | <b>ROOM C</b>                                       |
|  | <b>STEEL MANUFACTURING SIMULATION II</b>                                    | <b>TUTORIAL</b>                                     | <b>COMMUNICATIONS MODELLING AND SIMULATION</b>      |
| <b>17.30 GET-TOGETHER-PARTY</b>          |   |   |   |



| <b>TUESDAY, 12<sup>th</sup> JUNE 2007</b> |   |  |  |
|---|---|--|--|
| 08.30-17.00                               | <b>REGISTRATION</b>   |  |  |
| 09.00-10.00                               | <b>PARALLEL SESSIONS</b>  |  |  |
|   | <b>ROOM A</b>   | <b>ROOM B</b>  | <b>ROOM C</b>  |
|   | <b>KRIGING<br/>METHODOLOGY</b>  | <b>URBAN<br/>AND<br/>MOTORWAY TRAFFIC<br/>SIMULATION</b> | <b>VISIT OF DELFT UNIVERSITY<br/>RESEARCH LABS</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>ROOM C</b>  |
|   | <b>SOFTWARE MODEL<br/>DEVELOPMENT<br/>AND<br/>HUMAN BEHAVIOURAL<br/>MODELLING</b> | <b>TRAFFIC<br/>AND<br/>LOGISTICS<br/>CASE STUDIES</b>    | <b>MODELLING<br/>OF<br/>TEXTILE<br/>STRUCTURES</b>         |
| 12.30-14.00                               | <b>LUNCH BREAK</b>  |  |  |
| 14.00-15.00                               | <b>PARALLEL SESSIONS</b>  |  |  |
|   | <b>ROOM A</b>   | <b>ROOM B</b>  | <b>ROOM C</b>  |
|   | <b>META-KNOWLEDGE<br/>SIMULATION<br/>I</b>  | <b>AUTOMOTIVE<br/>SIMULATION</b>                         | <b>MODELLING<br/>FOR<br/>EVALUATION<br/>AND PREDICTION</b> |
| 15.00-15.30                               | <b>COFFEE BREAK</b>   |  |  |
| 15.30-17.30                               | <b>PARALLEL SESSIONS</b>  |  |  |
|   | <b>ROOM A</b>   | <b>ROOM B</b>  | <b>ROOM C</b>  |
|   | <b>META-KNOWLEDGE<br/>SIMULATION<br/>II</b>                                       | <b>SERVO ENGINE<br/>AND<br/>ERROR DETECTION</b>          | <b>SMART TEXTILES<br/>MODELLING<br/>AND DEVELOPMENT</b>    |
| 17.00-18.00                               | <b>EXHIBITION VISIT AND DRINKS</b>  |  |  |
| 19.00 – 22.00                             | <b>CONFERENCE DINNER</b>  |  |  |

|   |   |  |  |
|---|---|--|--|
| <b>WEDNESDAY, 13<sup>th</sup> JUNE 2007</b> |   |  |  |
| <b>08.45-09.30</b>                          | <b>REGISTRATION</b>   |  |  |
| <b>09.00 10.00</b>                          | <b>PARALLEL SESSIONS</b>                                      |  |  |
|   | <b>ROOM A</b>   | <b>ROOM B</b>                                      | <b>ROOM C</b>  |
|   | <b>TUTORIAL</b>   | <b>VIRTUAL<br/>MANUFACTURING<br/>SIMULATION</b>    | <b>PRODUCTION<br/>EFFICIENCY<br/>IMPROVEMENT</b>         |
| <b>10.00-10.30</b>                          | <b>COFFEE BREAK</b>   |  |  |
| <b>10.30 12.00</b>                          | <b>PARALLEL SESSIONS</b>                                      |  |  |
|   | <b>ROOM A</b>   | <b>ROOM B</b>                                      | <b>ROOM C</b>  |
|   | <b>ROBOT NAVIGATION<br/>SIMULATION<br/>AND<br/>VALIDATION</b> | <b>PRODUCT DESIGN<br/>WITH<br/>VIRTUAL REALITY</b> | <b>MILITARY OPTIMIZATION<br/>AND<br/>RISK ASSESSMENT</b> |
| <b>12.00-12.15</b>                          | <b>CLOSING SESSION AND BEST PAPER AWARD</b>                   |  |  |

**Monday, 11<sup>th</sup> June 2007**

**HALLWAY**

**Registration**

**08.15 - 17.00**

**MAIN HALL**

**09.00 – 10.00**

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**Opening ISC2007 and Welcome**

**Welcome Address**

**Professor Lodewijks  
Delft University of Technology  
ISC'2007, General Conference Chair**

**Jaap Ottjes and Hans Veeke  
Delft University of Technology  
ISC'2007, Program Chairs**

**09.15 – 10.00**

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**KEYNOTE SPEECH**

**Chair: Jaap Ottjes, Delft University of Technology, Delft, NL**



**Simulation and Verification of Timed and Hybrid Dynamical Systems**  
dr.ir. Bert D.A. van Beek

**Welcome**

**Monday, 11<sup>th</sup> June 2007**

**10.00 - 10.30  
COFFEE BREAK**

**10.30 – 12.30**

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**ROOM A- 10.30-12.30** **COMPLEX**  
**COMPLEX SYSTEMS SIMULATION METHODOLOGY**  
**Chair: Frans Sopers, Delft University of Technology, Delft, NL**

**COMPLEX-02**  
**Finding Relationships that are Functions**  
William Conley..... **61**

**COMPLEX-05**  
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 Dimitar Radev and Izabella Lokshina ..... **69**

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**PRODUCTION SCHEDULING AND MATERIALS HANDLING**  
**Chair: J. Manuel Feliz Teixeira, University of Porto, Porto, Portugal**

**MANUF-02**  
**Implementing an Evolutionary Algorithm for Production Scheduling in a Cardboard Corrugated Fabrication Plant**  
 Fabian Vargas-Nieto, Jairo R. Montoya-Torres and German Velasquez..... **215**

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# Monday, 11<sup>th</sup> June 2007

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## MANUF-01

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12.30 - 14.00

LUNCH BREAK

**Monday, 11<sup>th</sup> June 2007**

**14.00 – 15.00**

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**ROOM A- 14.00-15.00** **STEEL**  
**STEEL MANUFACTURING SIMULATION I**

**Chair:** Adriana Lopez de la Cruz, Delft University of Technology, NL

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**Process Rules for Sheet Metal Hydroforming**

Antonio Del Prete, Teresa Primo, Gabriele Papadia and Barbara Manisi ..... 109

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**Chair:** Joel Colloc, Universite Lumiere Lyon 2, Lyon, France

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**Improving a Call Center Performance at a Telecommunication Company**

Athanassios N. Avramidis, Michel Gendreau, Pierre L'Ecuyer and

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**PRODUCT PRESENTATION**

**Chair:** Matteo Palmonella, ESI.

**ESI and its solutions for Virtual Prototyping and Virtual Manufacturing**

Matteo Palmonella, ESI GROUP

# Monday, 11<sup>th</sup> June 2007

15.00 - 15.30  
COFFEE BREAK

15.30 - 17.00

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**ROOM A- 15.30-17.30**

**STEEL**

**STEEL MANUFACTURING SIMULATION II**

Chair: Hans Veeke, Delft University of Technology, Delft, NL

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**WORKSHOP**

**WORKSHOP**

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**Monday, 11<sup>th</sup> June 2007**

**ROOM C- 15.30-17.00**

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**COMMUNICATIONS MODELLING AND SIMULATION**

**Chair:** Lars Mönch, FernUniversität Hagen, Hagen, Germany

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**eurosis ORGANIZATION UPDATE SESSION 17.00-17.30**

**17.30 -18.30**

**GET-TOGETHER PARTY  
In the Main Hall**



Tuesday, 12<sup>th</sup> June 2007

**HALLWAY**

**Registration**

**08.30 - 17.00**

**09.00 – 10.00**

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**ROOM A- 09.00-10.00**

**METH**

**KRIGING METHODOLOGY**

**Chair:** Janos Sebestyén Janosy, MTA-KFKI, Budapest, Hungary

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**Chair:** Pierre l'Ecuyer, Université de Montreal, Montreal, Canada

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**ROOM C- 09.00-10.00**

**VISIT**

**VISIT OF DELFT UNIVERSITY RESEARCH FACILITIES**

Parallel Sessions - Tuesday

**Tuesday, 12<sup>th</sup> June 2007**

**10.00 - 10.30  
COFFEE BREAK**

**10.30 - 12.30**

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**ROOM A- 10.30-12.30** **COMPLEX**  
**SOFTWARE MODEL DEVELOPMENT AND HUMAN BEHAVIOURAL  
MODELLING**

**Chair:** Marc Duinkerken, Delft University of Technology, Delft, NL

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**A Component Framework for the Development of Complex Simulators**

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**ROOM B- 10.30-12.00**

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

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## Tuesday, 12<sup>th</sup> June 2007

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Chair: Pascal Bruniaux, GEMTEX- ENSAIT, Roubaix, France

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#### INTER Fiber Frictional Model in The Cotton Sliver

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12.30 - 14.00

LUNCH BREAK

## Tuesday, 12<sup>th</sup> June 2007

14.00 - 15.00

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**ROOM A- 14.00-15.00** **METH**

### **META-KNOWLEDGE SIMULATION I**

**Chair:** Adriana Lopez de La Cruz, Delft University of Technology, NL

**METH-05**

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Joël Colloc, Marie-Hélène Cuvelier and Peter Summons..... 23

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### **AUTOMOTIVE MANUFACTURING SIMULATION**

**Chair:** Hans Veeke, Delft University of Technology, Delft, NL

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**A Concept of an Integrated Suspension Control Logic Architecture and its Testing**

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Marek Maciejewski and Ewa Narbuntowicz..... 206

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**Chair:** Pascal Bruniaux, GEMTEX- ENSAIT, Roubaix, France

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Tuesday, 12<sup>th</sup> June 2007

15.00 - 15.30  
COFFEE BREAK

15.30 – 17.30

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**ROOM A- 15.30-17.00** **METH**

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**Chair:** Gabor Lencse, Szechenyi Istvan University, Gyor, Hungary

**HOSLOGIS-01**

**Medical and Pharmaceutical Experiences: Knowledge Discovery with Strategy by Vote**

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Peter F. Summons and Joël Colloc ..... 35

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Lucia Cassettari, Roberto Mosca, Roberto Revetria and Flavio Tonelli..... 40

**ROOM B- 15.30-17.30** **ROBOT**

**SERVO ENGINE AND ERROR DETECTION SIMULATION**

**Chair:** Dingena Schott, Delft University of Technology, Delft, NL

**ENG-03**

**Informatics platform for determining the dynamic performances of a two stages servo valve**

Alexandru Marin, Petrin Drumea, Marian Blejan and Ioana Ilie ..... 151

**ENG-04**

**Optimization of Electro-Hydraulic Systems using Mechatronic Concepts**

Alexandru Marin, Petrin Drumea and Adrian Mirea ..... 155

**MANUF-03**

**Online Errors Identification in Multi-Axis Machines for Adaptive Compensation**

Abderrazak El Ouafi and Nourredine Barka ..... 161

Parallel Sessions - Tuesday

**Tuesday, 12<sup>th</sup> June 2007**

**ROBO-09**

**On-line Simulation Based Fault Detection for a Hydraulic Driven Industrial Robot**

C. Angeli and A. Chatzinikolaou ..... 165

**ROOM C- 15.30-17.00**

**TEX**

**SMART TEXTILES MODELLING AND DEVELOPMENT**

**Chair: Pascal Bruniaux, GEMTEX- ENSAIT, Roubaix, France**

**TEX-01**

**Textronics Device for Measuring the Breathing Rhythm**

Janusz Zieba and Michal Frydrysiak ..... 437

**TEX-03**

**Textile Magnetic Core**

Janusz Zieba ..... 442

**TEX-04**

**Textronic Model of Clothing considering changes in its Thermoinsulating Properties**

Michal Frydrysiak, Stefan Ziegler and Krzysztof Gniotek ..... 447

**AFTER THE SESSIONS VISIT TO THE INDUSTRIAL DESIGN EXHIBITION**

Two horsetrams have been rented to bring the participants to the dinner location. Departure on the main market square accross the Town Hall at about 18.45 and return to the city centre at 22.00 and 22.15 hours.

**CONFERENCE DINNER – 19.00 -22.00**

The conference dinner will be held at

[Teeschenkerij Het Rieten Dak](http://www.hetrietendak.nl)

Middelweg 3

2616 LV Delft

Tel. +31.15-2124714

Fax. +31.15-2148144

email: [info@hetrietendak.nl](mailto:info@hetrietendak.nl)



# Wednesday, 13<sup>th</sup> June 2007

## HALLWAY

Registration

08.45 - 09.30

09.00 – 10.00

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**ROOM A- 09.00-10.00**

**TUTORIAL**

**TUTORIAL**

**Chair:** J. Manuel Feliz Teixeira, University of Porto, Porto, Portugal

**TUT**

**scMod/Sim.exe: For Supply Chain Modelling and Simulation**

J. Manuel Feliz Teixeira..... 5

**ROOM B- 09.00-10.00**

**VIR**

**VIRTUAL MANUFACTURING SIMULATION**

**Chair:** Hans Veeke, Delft University of Technology, Delft, NL

**VIR-01**

**A Virtual Manufacturing Environment for Interoperability Testing**

Charles R. McLean, Sanjay Jain, Andreas Craens and Deogratias Kibira ..... 331

**MANUF-10**

**A Software Simulator for Steel Plant**

Oswaldo Barbarisi, Carmen Del Vecchio, Giovanni Palmieri and  
Alessandra Parisio..... 338

**ROOM C- 09.00-10.00**

**MANUF**

**PRODUCTION EFFICIENCY IMPROVEMENT**

**Chair:** Lars Mönch, FernUniversität Hagen, Hagen, Germany

**ELEC-03**

**Accelerating SoC Design using SysML and SystemC1**

Waseem Raslan and Ahmed Sameh..... 247

## Wednesday, 13<sup>th</sup> June 2007

### MANUF-06-ELEC

**Simulation based Planning of Capacity Increase for the Production of Lithium Polymer Batteries**

Claus-Burkard Boehnlein and Christian Sahr ..... 242

**10.00 - 10.30**

**COFFEE BREAK**

**10.30 - 12.30**

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**ROOM A- 10.30-12.30**

**ROBOT**

**ROBOT NAVIGATION AND VALIDATION**

**Chair:** Leon Rothkrantz, Delft University of Technology, Delft, NL

### ROBO-01

**Hybrid Neuro-Fuzzy System for Mobile Robot reactive Navigation**

Munaf S. N. Al-Din and Ahmed A. Abdullah ..... 173

### ROBO-07

**Particle filter-based localization of simulated mini-rovers with low-cost IR sensors**

Fabrizio Abrate, Basilio Bona and Marina Indri..... 178

### ROBO-02

**Modelling and Validation of a 1DOF Arm Powered by Pneumatic Muscles**

Aron Pujana-Arrese, Javier Arenas, Leire Maruri, Ana Martinez-Esnaola

and Joseba Landaluze ..... 185

### ROBO-04

**Modeling, Stress Analysis and Design of an Underwater Remotely Operated Vehicle (ROV)**

Ahmad Bagheri, Shahed Aliakbar and Salar Basiri ..... 193



## Wednesday, 13<sup>th</sup> June 2007

**ROOM B- 10.30-12.30**

**VIR**

### **PRODUCT DESIGN WITH VR**

**Chair:** Marc Duinkerken, Delft University of Technology, Delft, NL

#### **MANUF-11**

**Model and simulation of a Gas Cookers Assembly Line: Performance Analysis and Suggestions to increase Efficiency**

Giovanni Andrioli and Giorgio Romanin-Jacur..... 239

#### **VIR-05**

**Virtual Ergonomics Analysis to Validate Product Design**

Giorgio Colombo, Demis Bronco, Caterina Rizzi and Daniele Regazzoni ..... 311

#### **VIR-07**

**A Simulator of Agent-Based Household Appliances**

Konrad Steblovnik and Damjan Zazula ..... 316

#### **VIR-02**

**Visualization for an Augmented Reality Construction Machinery Simulator**

Alvaro Segura, Aitor Moreno, Gino Brunetti and Thomas Henn ..... 324

**ROOM C- 10.30-12.00**

**RISK**

### **MILITARY OPTIMIZATION AND RISK ASSESSMENT**

**Chair:** Jaap Ottjes, Delft University of Technology, Delft, NL

#### **MIL-01**

**Using a Simulation Model to determine the optimum Number of Pilots in an Air Force**

Martin Albertyn and Stephen D. Trichard..... 387

#### **MIL-02**

**Scenario Modeling in Environmental Monitoring and Civil Protection Applications**

Alexander Sabov, Gerhard Schreck and Jörg Krüger..... 395

#### **MIL-03-LOGIS**

**Safety/Security Management Model supporting Hazard Identification and Risk Assessment in the Air Traffic Services**

Tomas Feglar ..... 400

**Wednesday, 13<sup>th</sup> June 2007**

**ROOM A 12.30 - 12.45  
CLOSING SESSION AND BEST PAPER AWARD  
Chair:**

**BEST PAPER**

**SEE YOU ALL  
JUNE 9-11, 2008  
FOR ISC'2008  
IN LYON, FRANCE**

**General Conference Chair:  
Joel Colloc, Universite de Lyon**

**Track proposals and tutorial proposals can be sent  
in by August 15<sup>th</sup>, 2007**

## Exhibition

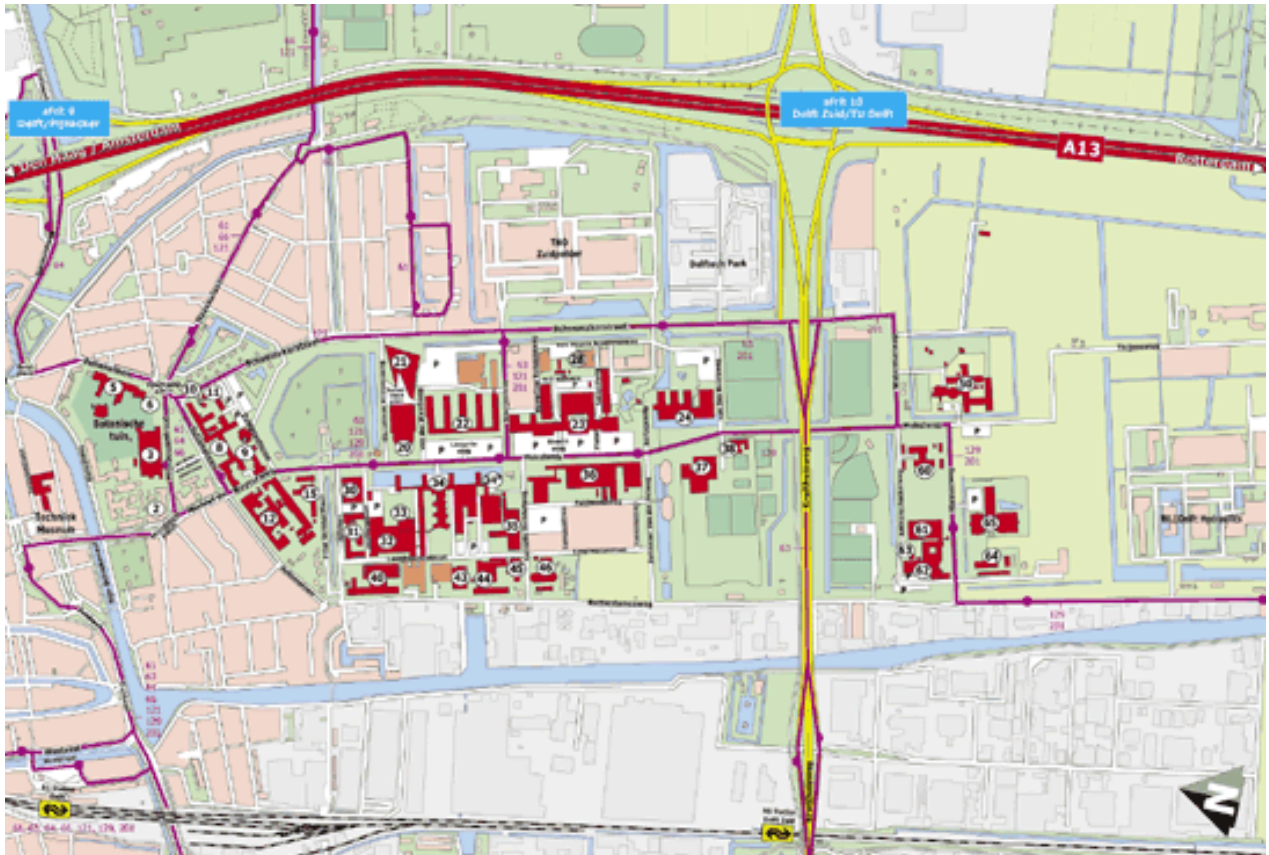
During the conference participants will be able to see the products of



[ESI Group](#) is the world's leading company for the numerical simulation of prototype and manufacturing process engineering in applied mechanics. The key to ESI Group's success is the use of realistic material physics, providing "as good as real" virtual solutions, in order to replace the lengthy trial and error processes on real prototypes.

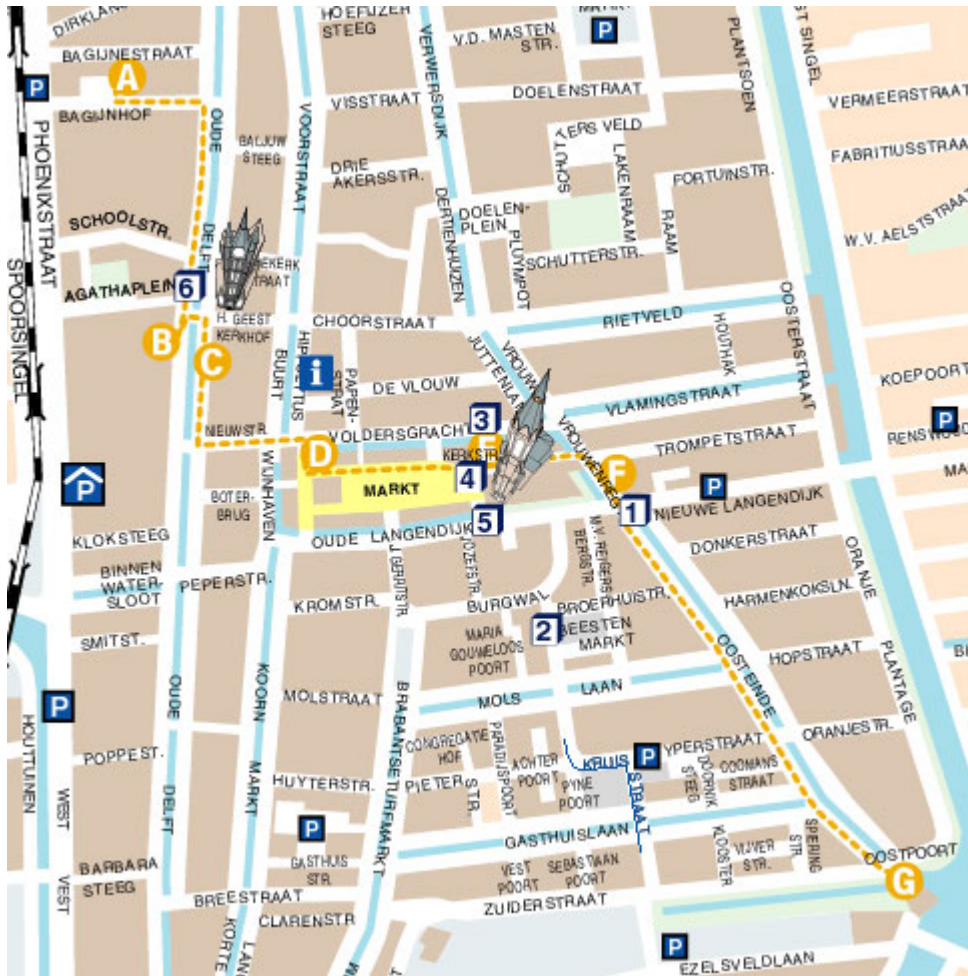
ESI Group has developed an entire suite of coherent industry-oriented applications to realistically simulate a product's behavior during certification testing, to fine tune the manufacturing processes in synergy with the desired product performance, and to evaluate the operational or accidental environment's impact on product usage. ESI Group's product portfolio, which has been industrially validated and combined in multi-trade value chains, represents a unique collaborative, virtual engineering solution, known as the Virtual Try-Out Space (VTOS), enabling a continuous improvement on the virtual prototype

## Conference Site Maps



## Delft University of Technology Campus

# Conference Site Maps



## Delft City Centre

# 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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