

Final Program



9-11 June 2005



Fraunhofer
Institut
Produktionsanlagen und
Konstruktionstechnik

Organized by



Co-Sponsored by



Contents

Contents

General Information	4
Conference Location	4
How to get there.....	4
Badges.....	4
Tickets.....	4
Registration.....	5
Conference Proceedings.....	5
Need Help?	5
Meeting Rooms	5
Social Event and Lunches.....	5
Visit	5
Best Paper Award.....	6
Quick Program Overview.....	7
Get-to-gether	10
Scientific Program.....	11
Wednesday, June 8.....	11
Thursday, June 9	12
Friday, June 10	18
Saturday, June11	24
Hotel Information.....	28
Conference Locations.....	29
EUROSIS Info.....	32

General Information

1. Conference Location

The Conference is being held at

Fraunhofer IPK

10587 Berlin

Pascalstrasse 8-9

Berlin

Telephone +49 (0) 30 / 39006-119 (Miss Catherine Oliver and Miss Anke Hoffstadt)

The main fax-number: +49(0)30/3911037.

The office Fax +49(0)30-39006286,

The registration desk will be placed in the hallway of the Fraunhofer-IPK from Wednesday afternoon onwards, where registration will start at 16.30 and will end at 17.30. On Thursday June 9th registration will be from 8.15 a.m. - 5.00 p.m. on Tuesday June 10th from 8.30 a.m. to 5.00 p.m. with Saturday registration only from 8.30 a.m.- 9.00. a.m.

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

For AIRPORT Information +49 180-5000 186 (0,12€Min.)

To get to the University from the airport or the train station Take the airport shuttle bus to the Zoologischer Garten train station.

To go direct to the **IPK**: from train station Zoologischer Garten take bus 245 to busstop Helmholtzstrasse, follow Helmholtzstrasse for another 200 meters in the direction the bus was driving and turn left into Pascalstrasse.

2. Badges

Each registrant will receive a name badge upon registration. The badge must be worn,, in order to be admitted to the technical sessions, lunches and social event.

3. Tickets

Extra tickets for the social event and lunches are available from the registration desk. Price: (or equivalent in another currency) for extra tickets

Extra conference dinner and cruise on Thursday evening:	€60
Extra lunch ticket	€20

General Information

4. Registration

The ISC'2005 Registration Desk will be open for information and registration:

Wednesday, June 8 4.30 p.m. to 5.30 p.m.
Thursday, June 9 8.15 a.m. to 5.00 p. m.
Friday, June 10 8.30 a.m. to 5.00 p. m.
Saturday, June 11 8.30 a.m. to 9.30 a.m.

The location of the registration desk will be signposted

5. Conference Proceedings

Each fully paid registrant will be provided with a copy of the Conference Proceedings (printed format) **This is NOT applicable to students who are not authors.**
(Extra copies are available on a cash and carry basis at special rates during **ISC'2005**)

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

ISC'2005 Proceedings CASH AND CARRY	€50
-------------------------------------	-----

6. Meeting Rooms

The meeting rooms are designated A-B-C and D (Internet). The way to the rooms will be signposted

7. Need Help?

Please see the conference desk for your questions

8. Social Events and Lunches

All registrants are invited to

The **get-together party** on Wednesday June 8th at 5.30 p.m. at Fraunhofer IPK

All **lunches** are served at Fraunhofer IPK

The Conference Dinner

All participants are invited to the conference dinner on **THURSDAY** the 9th of June. As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Thursday lunchtime.** The conference dinner will be held on a cruise boat and will start at .8.00 p.m.

General Information

9. Visit



Fraunhofer Institut
Produktionsanlagen und
Konstruktionstechnik

A guided visit is envisaged on Friday the 10th of June to the Fraunhofer-IPK research floor.

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 ISC'2005 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://biomath.rug.ac.be/~eurosis> and <http://www.eurosis.org>

WEDNESDAY, 8th JUNE 200516.30-17.30 **REGISTRATION**17.30-19.00 **GET-TOGETHER-PARTY****THURSDAY, 9th JUNE 2005**08.15-17.00 **REGISTRATION**09.00-09.15 **OPENING SESSION IN THE MAIN HALL**09.15-10.15 **KEYNOTE ADDRESS BY SIMON DEWULF, CREAX, BELGIUM**10.15-10.45 **COFFEE BREAK**10.45-12.45 **PARALLEL SESSIONS**

	ROOM A	ROOM B	ROOM C	ROOM D
	SIMULATION IN ROBOTICS I	FACTORY WAREHOUSE AND STORAGE MANAGEMENT SIMULATION	FIBRE AND POLYMER SIMULATION I	INTERNET ROOM

12.45-14.00 **LUNCH BREAK**14.00-15.00 **PARALLEL SESSIONS**

	ROOM A	ROOM B	ROOM C	ROOM D
	SIMULATION IN ROBOTICS II	ENTERPRISE AND MANAGEMENT SIMULATION TOOLS	TEXTILE WEAVING SIMULATION	INTERNET ROOM

15.00-15.30 **COFFEE BREAK**15.30-18.00 **PARALLEL SESSIONS**

	ROOM A	ROOM B	ROOM C	ROOM D
	ENERGY SYSTEMS SIMULATION	AUTOMOTIVE PRODUCTION SYSTEMS SIMULATION	FIBRE AND POLYMER SIMULATION II	INTERNET ROOM

20.00 CONFERENCE DINNER AND CRUISE

FRIDAY, 10th JUNE 2005

08.30-17.00	REGISTRATION			
08.45-10.15	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	TUTORIAL GERHARD HASSLINGER	MANAGEMENT SIMULATION TOOLS I	TEXTILE INDUSTRY INVENTORY AND SALES MANAGEMENT	INTERNET ROOM
10.00-10.30	COFFEE BREAK			
10.30-12.30	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	ELECTRONICS PERFORMANCE ANALYSIS AND OPTIMIZATION	SUPPLY CHAIN SIMULATION	VISUAL SIMULATIONS	INTERNET ROOM
12.30-14.00	LUNCH BREAK			
14.00-15.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	GUIDED TOUR OF THE FRAUNHOFER IPK FACTORY FLOOR			
15.00-15.30	COFFEE BREAK			
15.30-18.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	SIMULATION IN THE PROCESS INDUSTRY I	MANAGEMENT SIMULATION TOOLS II	SIMULATION ESTIMATION, VALIDATION AND OPTIMIZATION	INTERNET ROOM
	FREE EVENING			

SATURDAY, 11th JUNE 2005

08.30-09.30	REGISTRATION			
08.45 10.15	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	SIMULATION IN THE PROCESS INDUSTRY II	NEURAL NETWORKS AND GENETIC ALGORITHMS	TRAFFIC SIMULATION I	INTERNET ROOM
10.00-10.30	COFFEE BREAK			
10.30 12.00	PARALLEL SESSIONS			
	ROOM A	ROOM B	ROOM C	ROOM D
	PRODUCTION PLANNING AND JOB SHOP SIMULATION	MANUFACTURING OPTIMIZATION AND SET-UP	TRAFFIC SIMULATION II	INTERNET ROOM
12.00-12.15	CLOSING SESSION AND BEST PAPER AWARD ROOM A			

Get-together-Party

Wednesday, 8th June 2005

HALLWAY

Registration

16.30 - 17.30

HALLWAY

GET-TOGETHER-PARTY AT FRAUNHOFER IPK

17.30 - 19.00

Thursday, 9th June 2005

HALLWAY

Registration

08.15 - 17.00

MAIN HALL

09.00 – 10.15

Opening ISC2005 and Welcome

Welcome Address

Professor Jörg Krüger
Fraunhofer-IPK
ISC'2005, General Conference Chair

Philippe Geril
EUROSIS, Ghent University
EUROSIS Coordinator

09.15 – 10.15

KEYNOTE SPEECH

Chair: Alexei Lisounkin, Fraunhofer-IPK, Berlin, Germany



SIMON DEWULF
GENERAL MANAGER
S@CREAX.COM

Systematic Innovation: Speed and Efficiency in Value Creation
Simon Dewulf, CREAX, Belgium

Welcome

Thursday, 9th June 2005

10.15 - 10.45
COFFEE BREAK

10.45 – 12.45

ROOM A- 10.45-12.15 **ROBOT**

SIMULATION IN ROBOTICS I

Chair: Rolf Bernhard, Fraunhofer IPK, Berlin, Germany

ROBO-7

Using „Complete Kinematical Structure” in a Faster Method for Robot Kinematic Modelling

Viorel Stoian63

ROBO-8

Simulation of mobile Robot Applications with *VirtualRobot*

Martin Mellado, Carlos Correcher, Rosa M^a de Molina, José Camacho

and Ginés Benet..... 69

ROBO-9

Pathfinding with Kohonen Maps

Matthias Reuter and Steffen Harneit 73

ROOM B- 10.45-12.45 **MGMT**

FACTORY WAREHOUSE AND STORAGE MANAGEMENT SIMULATION

Chair: Manuel Feliz Teixeira, University of Porto, Porto, Portugal

TRAF-15

Greenhouse Automation: A Model for Design and Evaluation

Jaap A. Ottjes, Joan C. Rijsenbrij and Auke Groenenboom 227

ELEC-7

Pervasive Items for Factory Security

Alessandro Genco, Gaspare Scherma and Salvatore Sorce 231

Thursday, 9th June 2005

TRAF-3

AutoTrans: Management and Transport Automation in Warehouses

Leopoldo Armesto and Josep Tornero..... 236

TRAF-13

Virtainer: Graphical Simulation of Container Storage Yard

Miguel Escriva, Marcos Martí, Jose Manuel Sanchez, Emilio Camahort,
Javier Lluch and Roberto Vivó..... 242

ROOM C- 10.45-12.45

TEX

FIBRE AND POLYMER SIMULATION I

Chair: Vladan Koncar, GEMTEX-ENSAIT, Roubaix, France

TEX-9

Development of a Mathematical Model for the Drying of Textile Fabrics

Pradeep K. Agrawal and Li Xue 367

TEX-3

A Synergistic Approach by MRI and CFD for the Study of Microflow in Textiles

Johannes Leisen, Marco Martín, Thomas Schipotinin, Elke Rodehüser,
Karin Farber and Peter Farber 371

TEX-12

Using Neuro-fuzzy for Prediction ring spun yarn Strength from Cotton Fiber properties

A.Shams-Nateri..... 376

TEX-2

A New Technique to Measure Raleigh's Viscosity Parameters of Textile

Hatem Charfi and André Gagalowicz..... 380

ROOM D- 10.45-12.45

INTERNET

INTERNET ROOM

12.45 - 14.00

LUNCH BREAK

Parallel Sessions - Thursday

Thursday, 9th June 2005

14.00 – 15.00

ROOM A- 14.00-15.00

ROBOTICS

SIMULATION IN ROBOTICS II

Chair: Rolf Bernhard, Fraunhofer IPK, Berlin, Germany

ANA-9-ROBO

Extraction of System Parameters and Their Importance for Controlling

Matthias Reuter and Sabine Bostelmann 78

ROBO-6

The Design, Fabrication and Image Processing of a 3 DOF Passive Biped Walking Robot

Ahmad Bagheri, Amir Hajiloo, Salar Basiri and Rahman Yousefi Moghaddam 429

ROOM B- 14.00-15.00

MGMT

ENTERPRISE AND MANAGEMENT SIMULATION TOOLS

Chair: Peter Lawrence, Monash University, Clayton, Australia

DESIGN-1

Virtual Enterprise Risk and Security Management

Tomas Feqlar 145

ANA-3

D-Fact Insight – Simulation of Huge Scale Models in Cooperative Work

Kiran Mahajan, Daniel Huber, Bengt Mueck and Wilhelm Dangelmaier 150

ROOM C- 14.00-15.00

TEX

TEXTILE WEAVING SIMULATION

Chair: Vladan Koncar, GEMTEX-ENSAIT, Roubaix, France

TEX-4

Computer Modeling of Electrostatic Web Formation

Yiyun Cai, Yong K. Kim and Abdel-fattah A. Seyam 405

Thursday, 9th June 2005

TEX-1

Neural Network Modeling of Fabric Pilling Evaluation

Xin Binjie and Jinlian Hu..... 410

ROOM D- 14.00-15.00
INTERNET ROOM

INTERNET

15.00 - 15.30

COFFEE BREAK

15.30 - 18.00

ROOM A- 15.30-18.00

ENERGY

ENERGY SYSTEMS SIMULATION

Chair: Janos-Sebestyen Janosy, KFKI, Budapest, Hungary

ENERGY-4

**Integration of a Hydrogen Economy into the German Energy System: an
Optimising, Modelling Approach**

Michael Ball, Otto Rentz and Martin Wietschel..... 305

COMPLEX-7

Feasibility Study of Static Field Converter

Anil Puppala, Mohammed Soliman, Mohammed Safiuddin and

Andrew Abolafia..... 310

ENERGY-1

Simulation of the Steam Condenser in MATLAB Environment

Milan Cepák..... 314

ENERGY-5

**Object-Oriented Database Management System for Industrial Combustion
Processes**

Nuray Kayakol and Marcus A. Nogueira 319

COMPLEX-5

Computer Simulation Model of the Marine Diesel Engine

Josko Dvornik, Luko Milic and Enco Tireli 325

Parallel Sessions - Thursday

Thursday, 9th June 2005

ROOM B- 15.30-18.00

AUTO

AUTOMOTIVE PRODUCTION SYSTEMS SIMULATION

Chair: Habtom Mebrahtu, Anglia Polytechnic University, Chelmsford, UK

AUTO-1

Simulation validates Design and Scheduling of a Production Line

Vidyasagar Murty, Neelesh A. Kale, Rohit Trivedi, Omar M. Ulgen
and Edward J. Williams 201

AUTO-2

Bezier Curves for Representing Clothoids, Circles and Straight Lines

N. Montés, J.Tornero and L.Arnesto 206

AUTO-3

Genetic Algorithm Based Optimization of Model Reference Adaptive Control Approach for Vehicle Active Suspension System

Ahmad Bagheri, Moussa Rezaee and S.Mehdi Hashemi..... 211

ENGIN-1

Using Modelling Techniques For Fault Prediction In Hydraulic Drive Systems

C. Angeli and A. Chatzinikolaou..... 216

MANUF-1

Design of a Custom Plowing Process using Simulation

Allan Burke, Víctor Acosta, José Carlos Miranda and
Juan de Dios Calderón 221

ROOM C- 15.30-17.00

TEX

FIBRE AND POLYMER SIMULATION II

Chair: Vladan Koncar, GEMTEX-ENSAIT, Roubaix, France

ANA-7-TEX

GA for Optimisation of Fibre Steering in Composite Laminates

Xavier Legrand, Don Kelly and Alan Crosky 388

TEX-5

Electrical Properties of PANI-Dyneema conductive polymer Fibers – Fuzzy Logic Modeling

Bohwon Kim, Vladan Koncar and Claude Dufour 393

Thursday, 9th June 2005

TEX-10

Microscopic modelling of polymers and their interactions

Peter Ahlström, Kim Bolton and Mikael Skrifvars..... 398

**ROOM D- 15.30-17.30
INTERNET ROOM**

INTERNET

19.30 -23.00

CONFERENCE DINNER AND CRUISE

**All participants will meet at a designated point in front of
Fraunhofer IPK at 7.30 p.m. The boat casts of at 8.00 p.m.**

Parallel Sessions - Thursday

Friday, 10th June 2005

HALLWAY

Registration

08.30 - 17.00

08.45 – 10.15

ROOM A- 08.45-10.15

ELECTRON

TUTORIAL

Chair: Philippe Geril, EUROSIS-Ghent University, Ghent, Belgium

TUTORIAL

Traffic on the Internet: Components and Source Profiles, Variability on Network Platforms, Impact on Service Quality

Gerhard Hasslinger

ROOM B- 09.00-10.00

MGMT

MANAGEMENT SIMULATION TOOLS I

Chair: Alexander Sabov, Fraunhofer IPK, Berlin, Germany

TRAIN-1

Blended Learning Applying Interactive Discrete Event Simulation in a Web Based Learning Management System

Wolfgang Kühn..... 109

TOOLS-6

PLANSIM, A framework to build Automated Planners with Simulators

Ruy L. Milidiu and Frederico dos Santos Liporace..... 115

ROOM C- 09.00-10.00

TEX

TEXTILE INDUSTRY INVENTORY AND SALES MANAGEMENT

Chair: Vladan Koncar, GEMTEX-ENSAIT, Roubaix, France

TEX-6

Development of an Inventory Management Spreadsheet Simulator for a large Apparel Company

Jeffrey A. Joines, Kristin A. Thoney, and Ben R. Martin 417

Friday, 10th June 2005

TEX-8

Implementation of the Newsboy Method for the Sales Forecasting of the Apparel Industry

Sébastien Thomassey and Pierre Douillet 422

**ROOM D- 09.00-10.00
INTERNET ROOM**

INTERNET

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.30

ELECTRON

ELECTRONICS PERFORMANCE ANALYSIS AND OPTIMIZATION

Chair: Javier Marin, University of Malaga, Malaga, Spain

COMPLEX-3-ELEC

Clustering Procedure for Performance Analysis of Mobile Communication Networks

Dimitar Radev, Izabella Lokshina and Svetla Radeva 83

ELEC-4

A Measurement Based Simulation Model of a Web Cluster

Isabel Wagner, Kai-Steffen Hielscher and Reinhard German..... 88

ELEC-6

NAPT- A Simulation Tool for Network Analysis and Parameter Tuning

Mario Barbera, Andrea G. Busà, Alessandro G. Di Nuovo,

Alfio Lombardo and Giovanni Schembra 93

ELEC-8

Optimizers with learning Distributions in Simulation: An Application

All-Pass Disperser Compensator of Optic Filters

Mufit Ozden and Chi-Hao Cheng 101

Parallel Sessions - Friday

Friday, 10th June 2005

ROOM B- 10.30-12.30

SUPPLY

SUPPLY CHAIN SIMULATION

Chair: Hans Veeke, TU Delft, Delft, The Netherlands

TRAF-4

A Methodology for Supply Chain System Modeling and Process Evaluation

M.Chabrol, M.Comelli, P.Féniès and N.Tchernev 251

TRAF-7

A Modelling Framework for Supply Chain Planning Simulation under Uncertainty

François Galasso, Colette Mercé and Bernard Grabot 256

TRAF-2

The Impact of Various Delivery Prioritization Strategies in heterogeneous Supply Chain Environments

Thomas Thron, Gábor Nagy and Niaz Wassan..... 262

TRAF-1

Decision Support System for Plant Location Analysis Based on Fuzzy Model

Francesco Costantino, Giulio Di Gravio and Massimo Tronci..... 269

ROOM C- 10.30-12.30

GRAPHICS

VISUAL SIMULATIONS

Chair: Alexei Lisounkin, Fraunhofer IPK, Berlin, Germany

AERO-1

A Simplified Aerodynamic Model for Flight Simulation

H. Chen, T.R. Wan and R.A. Earnshaw 45

ANA-2

3D Visualisation of Musical Content

Jacek Grekow..... 50

COMPLEX-9

A Knowledge Representation System to support Medical Diagnostic Imaging

Edoardo Ardizzone and Daniele Peri 53

MEDI-4

Dynamic Generation of Hypermedia Presentations from Distributed Digital Archives

Chia-Hung Lin, Chia-Hung Yeh, Bai-Hsuen Chen and Jen-Shin Hong..... 58

Friday, 10th June 2005

**ROOM D- 10.30-12.30
INTERNET ROOM**

INTERNET

**12.30 - 14.00
LUNCH BREAK**

14.00 - 15.00

OTHER- 14.00-15.00 **VISIT**
GUIDED VISIT TO THE FRAUNHOFER IPK FACTORY FLOOR

A guided tour will be organised on the Fraunhofer IPK factory floor, where personnel of the Fraunhofer Institute will show several projects.

**15.00 - 15.30
COFFEE BREAK**

15.30 - 18.00

ROOM A- 15.30-17.30 **PROCESS**
SIMULATION IN THE PROCESS INDUSTRY I

Chair: Alexei Lisounkin, Fraunhofer IPK, Berlin, Germany

CHEM-1
Numerical Modelling and Analysis of Flow and Heat Transfer Processes in a Coke Oven
K. Hellgardt, K. J. Vyas, N. S. Hanspal and V. Nassehi..... 331

CHEM-2
Influence Spare Parts Supply on Modeling Maintenance Organization
Petar Stanojević, Vasilije Mišković, Vladimir Bukvić and Mirjana Misita 337

Parallel Sessions - Friday

Friday, 10th June 2005

CHEM-3

Using Simulation to Analyse the Procurement of Addictives for Lubricants in the Oil Refinery of Porto, Portugal

J. Manuel Feliz de Teixeira and António E. S. Carvalho Brito 341

ANA-5

Modelling of Porous Flow in Underground System

Naghmeh Keshavarzi-Roonizi, Rahim Ghorashi, Vahid Nassehi and

Diganta Bhusan Das 348

ROOM B- 15.30-17.30

MGMT

MANAGEMENT SIMULATION TOOLS II

Chair: Vahid Nassehi, Loughborough University, Loughborough, UK

TOOLS-7

A Virtual Real-Time Model for Control Software Development –Applied on a Sheet Metal Press Line

Bo Svensson, Fredrik Danielsson and Bengt Lennartson 119

TOOLS-4

Enterprise Petri net based CAM software Opera-Topaz

Dmitry Zaitsev 124

TOOLS-5

Soleil: modeling a Health System

Ruben Gonzalez-Rubio and Lourdes Zubieta 129

TOOLS-10

A Simulation System with Neural Data Interface for Shipbuilding Operation

Guodong Shao, Charles McLean and Swee Leong 137

ROOM C- 15.30-18.00

VALID

SIMULATION ESTIMATION, VALIDATION AND OPTIMIZATION

Chair: Juan Garbajosa, UPM, Madrid, Spain

ANA-1

Efficient Truncation Point Estimation for Arbitrary Performance Measures

Mirko Eickhoff, Donald C. McNickle and Krzysztof Pawlikowski 5

VAL-1

Deploying Validation Tests in Systems Development

Juan Garbajosa and Pedro P. Alarcón 13

Friday, 10th June 2005

ANA-8-VERIF

SOM-Validation Method for Wastewater Treatment

Hilario López and Iván Machón..... 17

ENGIN-2

Simulation based Framework for Maintenance Optimization

Thibaut Lust, Olivier Roux, Fouad Riane and Pierre Dehombreux 23

COMPLEX-6

Computing Simulation and Heuristic Optimization of the Marine Twin Shaft Gas Turbine

Josko Dvornik, Ante Munitic and Enco Tireli..... 28

ROOM D- 15.30-17.30

INTERNET ROOM

INTERNET

FREE EVENING

Parallel Sessions - Friday

Saturday, 11th June 2005

HALLWAY

Registration

08.30 - 09.30

08.45 – 10.15

ROOM A- 08.45-10.15

PROCES

SIMULATION IN THE PROCESS INDUSTRY II

Chair: Gerhard Schreck, Fraunhofer-IPK, Berlin, Germany

PROC-N

Architecture for Simulation and Knowledge Based Supervision for Process Facilities

Hans-Werner Schmidt, Ulrich Saffert, Gerhard Schreck, Alexander Sabov and Matthias Pleßow..... 353

PROC-N2

Tools for knowledge Acquisition, Modeling and Visualisation Applied to Process Supervision

Rainer Fröhling, Michael Pocher, Matthias Pleßow and Alexei Lisounkin 358

PROC-N3

Knowledge Modeling and Processing for Supervision of Process Facilities

Jörg Krüger, Alexei Lisounkin, Alexander Sabov, Gerhard Schreck and Michael Pocher 435

ROOM B- 09.00-10.00

METH

NEURAL NETWORKS AND GENETIC ALGORITHMS

Chair: Mohammad Montakhab, Univ. of West England, Bristol, UK

ANA-6

Corti's Organ Physiologist-based Cochlear Model: Neural lateral Inhibition

Francisco Ríos, Raquel Fernández-Ramos, Jorge Romero-Sánchez, Jose Francisco Martín, A. Ignacio Molina-Conde and Francisco Javier Marín 33

COMPLEX-11

Rule Representation and Initial Population in Genetic Learning

I. Bruha..... 37

Saturday, 11th June 2005

ROOM C- 09.00-10.00

TRAF

TRAFFIC SIMULATION I

Chair: Daniel Krajzewicz, German Aerospace Centre, Berlin, Germany

TRAF-N

Basic Aspects of Transport Demand Modelling

Nina Kudlackova and Alexander Chlaň 277

TRAF-12

Research Project Theory of Transport Systems

Karel Šotek and Alexander Chlaň..... 281

ROOM D- 09.00-10.00

INTERNET

INTERNET ROOM

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

ROOM A- 10.30-12.00

PLAN

PRODUCTION PLANNING AND JOB SHOP SIMULATION

Chair: Jaap Ottjes, TU Delft, Delft, The Netherlands

TRAF-11

The Impact of Human Performance Variation on the Accuracy of a Job Shop Simulation

Peter Lawrence..... 181

TRAF-16

A Simulation Application Framework for Production Planning and Scheduling

Hans P.M. Veeke and Gabriel Lodewijks 187

TRAF-17

An Event Driven Approach to Workflow Simulation

Agustín Yagüe, Pedro Pablo Alarcón, Juan Garbajosa, Jessica Díaz

and José Luis Esteban 193

Saturday, 11th June 2005

ROOM B- 10.30-12.00

OPTIM

MANUFACTURING OPTIMIZATION AND SET-UP

Chair: Gerhard Schreck, Fraunhofer-IPK, Berlin, Germany

TOOLS-1

BetaSIM Extended Framework for General Discrete Event Simulation

František Huňka..... 159

MANUF-5

Achieving efficiency through Simulation in a declining Manufacturing Market

Rob Walker, Habtom Mebrahtu and Caroline Strange..... 162

MANUF-8

Visualizing Lean Effects with Simulation-Based Value Stream Mapping

Yang-Hua Lian and Hendrik Van Landeghem 168

MANUF-6

OEE Simulation in Production Ramp-up

Jürgen Fleischer; Gisela Lanza and Thomas Ender..... 173

ROOM C- 10.30-12.00

TRAFFIC

TRAFFIC SIMULATION II

Chair: Manuel Feliz Teixeira, University of Porto, Porto, Portugal

TRAF-5

Preparation of Digital Maps for Traffic Simulation: Part 1 Approach and Algorithms

Daniel Krajzewicz, Georg Hertkorn, Julia Ringel and Peter Wagner 285

TRAF-6

Urban Traffic Simulation Modeling for Reconfigurable Hardware

Anders Å. Hansson, Henning S. Mortveit Justin L. Tripp and Maya B. Gokhale 291

TRAF-9

Simulation of modern Traffic Lights Control Systems using the open source Traffic Simulation SUMO

Daniel Krajzewicz, Elmar Brockfeld, Jürgen Mikat, Julia Ringel, Christian Rössel, Wolfram Tuchscheerer, Peter Wagner and Richard Wösler 299

Saturday, 11th June 2005

**ROOM D- 10.30-11.00
INTERNET ROOM**

INTERNET

**ROOM A 12.00 - 12.15
CLOSING SESSION AND BEST PAPER AWARD
Chair: Alexei Lisounkin and Philippe Geril**

BEST PAPER

**SEE YOU ALL
MAY 31- JUNE 2, 2006
AT THE UNIVERSITY OF PALERMO
FOR ISC'2006
IN PALERMO-ITALY**

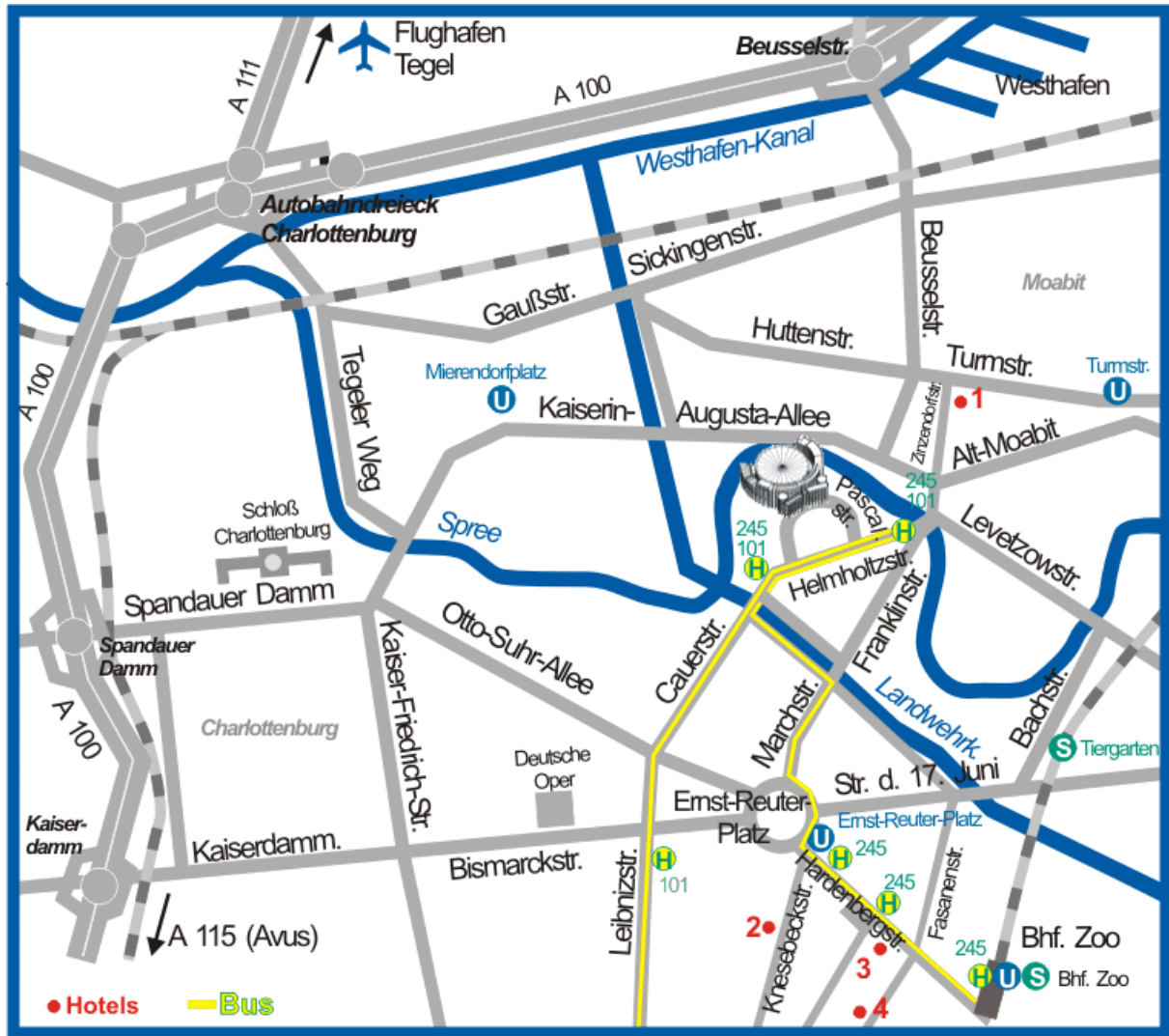
**Track proposals and tutorial proposals can be sent
in by July 30th, 2005**

Parallel Sessions - Saturday

CONFERENCE HOTELS

The following hotels are the hotels chosen for the participants to ISC'2005	single room rate (including breakfast)	double room rate (including breakfast)
Les Nations *** Zinzendorfstr. 6, 10555 Berlin Tel. +49 (0) 30 / 392 20 26 Fax. +49 (0) 30 / 392 50 10 les-nations-berlin@t-online.de www.t-online.de/home/les-nations-berlin	38-59 €	69-88 €
Hotel Heidelberg *** Knesebeckstr.15, 10623 Berlin Tel.+49 (0) 30/31 30 10 3 Fax.+49 (0)30/31 35 87 0 hotel.heidelberg.berlin@t-online.de www.hotel-heidelberg-berlin.de	69 €	85 €
Excelsior **** Hardenbergstr. 14, 10623 Berlin Tel. +49 (0) 30 / 31 55 22 Fax. +49 (0) 30 / 31 55 10 53 hotel-excelsior@blueband.de www.blueband.de	79 €	107 €
Savoy **** Fasanenstr. 9/10, 10623 Berlin Tel. +49 (0) 30 / 311 03 0 Fax +49 (0) 30 / 311 03 333 info@hotel-savoy.com www.hotel-savoy.com	111 €	133 €

Conference Site Maps

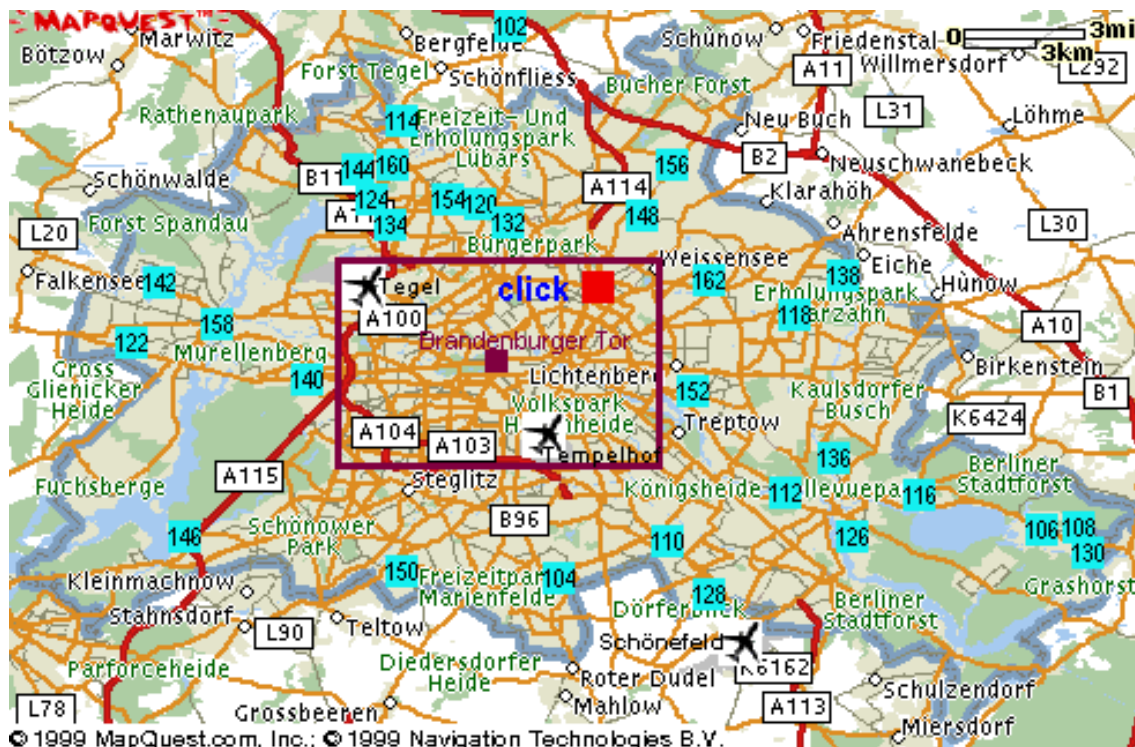


Plan on how to get to IPK and Bus Routes

Conference Site Maps

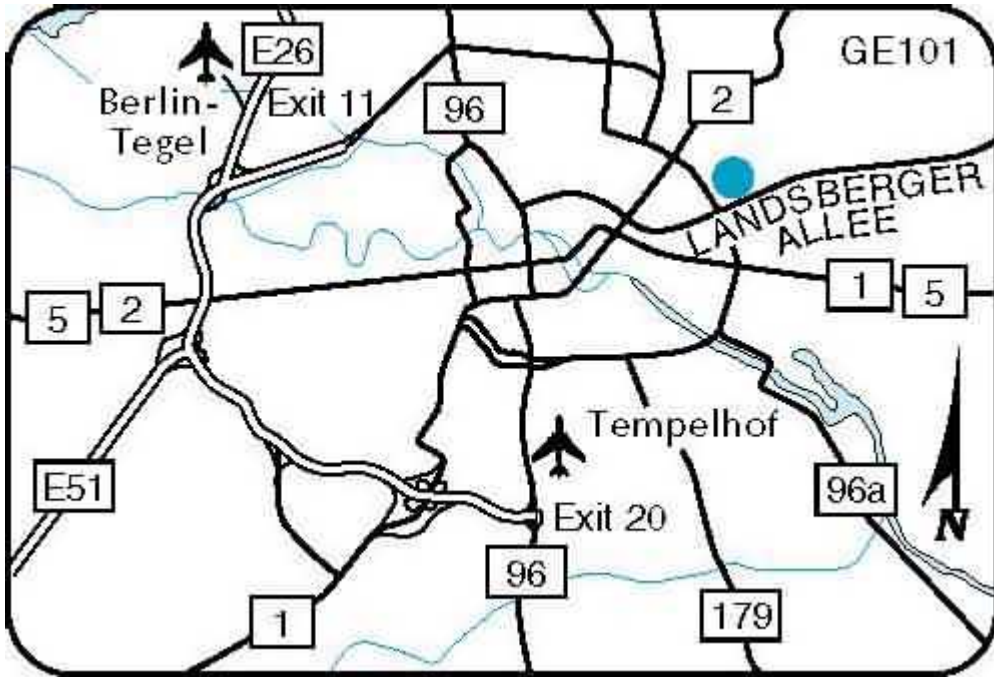


Berlin City Centre



Berlin via Motorways

Conference Site Maps



Berlin and its Airports



EUROSIS Info

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
Ghent University
Faculty of Engineering
Dept. of Industrial Mgmt.
Technologiepark 903
Campus Ardoyen
B- 9052 Ghent-Zwijnaarde
Belgium
Tel: +32.9.264.55.09
Fax: +32.9.264.58.25
Email: Philippe.Geril@biomath.ugent.be

Please send me info on EUROSIS:

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