

FINAL PROGRAM



2009

**15-17, April 2009
Bruges, Belgium**

Organized by



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General Information


1.1 Conference Location


The Conference itself is held at

[Novotel Brugge Centrum](#)

Katelijnestraat 65

B-8000 Bruges

 Tel: +32.50 33 75 33

 Fax: +32.50 33 65 56

 E-Mail: H1033@accor.com

The registration desk will be placed in the hallway in front of the meeting rooms on the ground floor. Registration will start on Wednesday at 8.30 a.m. till 4.45 p.m. On Thursday it will be from 8.30 a.m. - 3.00 p.m. with Friday registration only from 9.00 a.m.- 09.30. a.m

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

1.2 How to get there

By Car

From Gent via the A10 (E40) follow signs for Oostende, take exit No.9 for Oostkamp, then head to Brugge (5 km), then Parking Begijnhof (public parking under the hotel). From Oostende via the A10 (E40) follow signs for Gent, take exit No.8 then follow St.Michiels, continue past the 2 roundabouts, under the railway bridge and then head to Parking Katelijne (public parking under the hotel). From Lille or Kortrijk via the A17 (E403) follow Brugge, then St Michiels and continue as above.

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. Participants to the three events will be designated by differently coloured dots.

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

General Information

conference dinner:	€60
lunch	€20

1.5 Registration

The **FUBUTEC-EUROMEDIA-ECEC'2009** Registration Desk will be open for information and registration:

Wednesday, April 15..... 8.30 a.m. to 4.45 p. m. in the hallway
Thursday, April 16 8.30 a.m. to 3.00 p. m. in the hallway
Friday, April 17 9.00 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 relevant to his or her track (printed format).
(Extra copies are available on a cash and carry basis at special rates during FUBUTEC2009-Euromedia'2009-ECEC2009)

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

EUROMEDIA'2009 Proceedings	€40
ECEC'2009 –FUBUTEC 2009 Proceedings	€40

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 (EUROMEDIA) and -B (ECEC-FUBUTEC) at the conference.

General Information

1.8 Internet Connections

There will be 2 to-3 ISDN lines available for participants or you can use the WIFI network (see the hotel desk for rates) 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 reception will be held on **Wednesday April 15th at 5.30 p.m at the Bruges Town Hall.**

Lunches and Coffee Breaks at the hotel

Visit to Bruges

We have envisaged a **boat trip** on the canals of Bruges for all participants to the conference on **Thursday the 16th of April from 15.45 till 16.30.**

The Conference Dinner

All participants are invited to the conference dinner which will be held **at De Halve Maan on the 16th of April from 7.30 p.m. onwards.** As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Wednesday evening.** (for those who have as yet not done so)



[Huisbrouwerij Halve Maan](http://www.huisbrouwerijhalvemaan.be)

Walplein 26
8000 Bruges

Tel: +32.50 33 26 97

Fax: +32.50 34 59 35

Email: info@halvemaan.be

General Information

1.12 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 FUBUTEC'2009, EUROMEDIA'2009 and ECEC'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

Each Room has an LCD projector and an overhead projector

**ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE
PROVISIONAL AND MAY BE SUBJECT TO CHANGE AT THE
EVENT**

**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>

WEDNESDAY, 15th APRIL 2009		
08.30-16.45	REGISTRATION	
09.00-10.00	OPENING SESSION AND KEYNOTE SPEECH BY SORIN SOLOMON ROOM A	
10.30-10.30	COFFEE BREAK	
10.30-12.30	PARALLEL SESSIONS	
	ROOM A	ROOM B
	MEDIA BASED TRAINING AND E-BUSINESS	BUSINESS AND PRODUCT DEVELOPMENT
12.30-14.00	LUNCH BREAK	
14.00-15.00	INVITED SPEECH BY SIMON DEWULF ROOM A	
15.00-15.30	COFFEE BREAK	
15.30-17.00	PARALLEL SESSIONS	
	ROOM A	ROOM B
	ENHANCED AUDIOVISUAL RESEARCH	COLLABORATIVE PROJECTS
17.30-18.30	RECEPTION AT THE TOWN HALL	

THURSDAY, 16th APRIL 2009		
08.30-15.00	REGISTRATION	
09.00-10.00	PARALLEL SESSIONS	
	ROOM A	ROOM B
	KEYNOTE SPEECH BY A.Y. AL-ZOUBI	COSTING
10.00-10.30	COFFEE BREAK	
10.30-12.30	PARALLEL SESSIONS	
	ROOM A	ROOM B
	MULTIMODAL DATABASES	LARGE SYSTEM SIMULATION
12.30-14.00	LUNCH BREAK	
	PARALLEL SESSIONS	
14.00-15.00	ROOM A	ROOM B
	MEDICAL APPLICATIONS	RISK MANAGEMENT AND ASSESSMENT SIMULATION
15.00-15.30	COFFEE BREAK	
15.45-16.30	CANAL TRIP IN BRUGES	
19.30-23.00	CONFERENCE DINNER AT DE HALVE MAAN	

FRIDAY 17TH APRIL 2009		
09.00-09.30	REGISTRATION	
	PARALLEL SESSIONS	
09.00 10.00	ROOM A	ROOM B
	MULTIMEDIA STORYTELLING	COMPLEX SYSTEMS SIMULATION
10.00-10.30	COFFEE BREAK	
	PARALLEL SESSIONS	
10.30 12.00	ROOM A	ROOM B
	DATA TRANSMISSION AND SECURITY	VERIFICATION AND OPTIMIZATION TOOLS
12.00-12.15	CLOSING SESSION AND BEST PAPER AWARD ROOM A	

Wednesday, 15th April 2009

HALLWAY

Registration

08.30 - 16.45

ROOM A

09.00 – 10.00

09.00-09.15

**Opening FUBUTEC 2009 - ECEC 2009- EUROMEDIA2009
and Welcome**

Welcome Address

**Jeanne Schreurs, Hasselt University
Hendrik Van Landeghem, Ghent University
Danny Van Welden, KBC
EUROMEDIA'2009 and ECEC-FUBUTEC'2009 Conference Chairs**

Welcome - Wednesday

Wednesday, 15th April 2009



ROOM A

09.15 - 10.00

Chair: Hendrik Van Landeghem, Ghent University, Ghent, Belgium

KEYNOTE

Modelling Individuals, Institutions, Markets, Societies and Economies in terms of Agents and their Interaction Networks

Sorin Solomon, Hebrew University of Jerusalem, Racah Institute of Physics,
Theoretical Physics Department, Givat Ram, Israel

Wednesday, 15th April 2009

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

ROOM A- 10.30-12.30



MEDIA BASED TRAINING AND E-BUSINESS & GOVERNMENT

Chair: Jeanne Schreurs, Hasselt University, Diepenbeek, Belgium

APTEC_01

Simulation-Based Training in Engineering

Valery Vodovozov and Zoja Raud..... 73

WORK_05

Personalisation of E-learning courses

Wouter Hustinx, Jeanne Schreurs and George Sammour..... 80

COMTEC_05

The Business Value of Inherent Network Management Approaches for the Future Internet

Gerhard Haßlinger and Frank-Uwe Andersen 91

APTEC_06

E-Government Appliance Problems on First Degree Self Government of Greece

Dimitrios S. Goulas and Georgia N. Kontogeorga 96

ROOM B- 10.30-12.30



BUSINESS AND PRODUCT DEVELOPMENT

Chair: Hendrik Van Landeghem, Ghent University, Ghent, Belgium

ECEC_02

A Description of Semi-automatic Creation of Requirements Specification from Business Activities

David Jezek, Svatopluk Stofa, Ivo Vondrák and Jan Kozusznik..... 77

Parallel Sessions - Wednesday

Wednesday, 15th April 2009

ECEC_03 Transformation Management of Interdisciplinary Product Lifecycle Modelling and Application in ICT and VR Environments Christian-Andreas Schumann, Stephan Kassel, Andreas Rutsch, Tobias Teich and Claudia Tittmann.....	82
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ECEC_06 An Approach for a Needs driven Definition of a Function-Oriented Representation in the Automotive Domain Andreas Warkentin, Jürgen Gausemeier and Joachim Herbst.....	87
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ECEC_09 Joint Optimization of all Inspection Parameters for Multi-Stage Processes: Algorithm, Simulation and Test Set Sofie Van Volsem	92
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12.30 - 14.00
LUNCH BREAK

14.00 – 15.00



ROOM A

INVITED SPEECH

Chair: Hendrik Van Landeghem, Ghent University, Ghent, Belgium

INVITE_01

**Sustainability of re-search: Property – Function relations as a base for
technology transfer**

Simon Dewulf, Managing Director, CREAX nv, Ypres, Belgium

15.00 - 15.30
COFFEE BREAK

15.30 – 17.00



ROOM A- 15.30-17.00

ENHANCED AUDIOVISUAL RESEARCH

Chair: Jeanne Schreurs, Hasselt University, Diepenbeek, Belgium

Wednesday, 15th April 2009

MEDIATEC_07

A Vertical Stereoscopic System Based on 1D Image Matching

Viorica Patraucean and Jean Conter 51

MEDIATEC_05

Generating Full Length Impaired Movies for Quality of Experience Assessments

Sebastiaan Van Leuven, Glenn Van Wallendael, Peter Lambert and Rik Van de Walle 56

MEDIATEC_03

The New Delft University of Technology Data Corpus for Audio Visual Speech Recognition

Alin G. Chitu and Leon J.M. Rothkrantz 63



ROOM B - 15.30-17.00

COLLABORATIVE PROJECTS

Chair: **Christophe Roche**, Universite de Savoie, Le Bourget du Lac, France

ECEC_01

Modeling Global Product Development Projects – The Idea of the Product Collaboration Information Model

Reiner Anderl, Jochen Raßler and Diana Völz 99

ECEC_04

Ontology Matching for Collaborative Engineering

Christophe Roche 105

FUBUTEC_14

Identifying the Right Simulation Data for Project Scheduling

Vrassidas Leopoulos, Panagiotis Gantiragas, Viktor Diamantas and Konstantinos Kirytopoulos 110

17.30 - 18.30

RECEPTION at the Town Hall

We will go in group to the Town Hall at 17.00. After the reception there is a free evening to explore Bruges.

Thursday, 16th April 2009

HALLWAY

Registration

08.30 - 15.00

09.00 – 10.00

ROOM A- 09.00-10.00

KEYNOTE SPEECH

Chair: Jeanne Schreurs, Hasselt University, Diepenbeek, Belgium



KEYNOTE_02

Mobile Learning in Jordan: A Nomadic Journey into the Future

Prof. A.Y. Al-Zoubi, Dean of Scientific Research, Dean of the School of Graduate Studies, Princess Sumaya University for Technology, Amman, Jordan

ROOM B- 09.00-10.00

COSTING

Chair: Hendrik Van Landeghem, Ghent University, Ghent, Belgium



ECEC_07

Minimising the Cost of Scheduling Maintenance Tasks on a Single Machine

Maher Rebai, Imed Kacem and Kondo Adjallah 115

ECEC_08

Cost Model for Parts Supply in Automotive Industry

Veronique Limère and Hendrik Van Landeghem 120

10.00 - 10.30

COFFEE BREAK

Thursday, 16th April 2009

10.30 - 12.30



ROOM A 10.30-12.30

MULTIMODAL DATABASES

Chair: A.Y.Al-Zoubi, Princess Sumaya Univ.of Technology, Amman, Jordan

WORK_04

Datamining and Marketing: Approach to track Customer Movements

George Sammour, Jeanne Schreurs and Koen Vanhoof 5

MEDIATEC_08

Database for a Visual Language Based Application, Not Just a Collection of Image Files

Siska Fitrianie and Leon J.M. Rothkrantz..... 10

WORK_02

Knowledge Mapping and Modelling -- Based on RIA Multimedia information retrieval system

Chyi-Wen Hwang..... 18

MEDIATEC_06

Analysis and recording of multimodal data

Marijn van Vulpen, Leon J.M.Rothkrantz, Paul Wiggers and Alin G.Chitu 24



ROOM B - 10.30-12.30

LARGE SYSTEM SIMULATION

Chair: Hendrik Van Landeghem, Ghent University, Ghent, Belgium

WORK_01

Application of a Decision Support System in Managing Timber Production in North of Iran

Amirhooman Hemmasi..... 5

FUBUTEC_09

System Dynamics Modelling of a Nautical Tourist Business System (NTBS)

Ante Munitić, Frane Mitrovic and Pančo Ristov 9

FUBUTEC_10

The Maintenance Management in the Highway Context: A System Dynamics Approach

Enrico Briano, Claudia Caballini and Roberto Revetria 17

Thursday, 17th April 2009

ECEC_05

System Dynamics Modelling of Material Flow of the Port Cargo System

Ante Munitic, Josko Dvornik, Marko Tomasevic and Pančo Ristov 24

12.30 - 14.00

LUNCH BREAK

14.00 - 15.00



ROOM A - 14.00-15.00

MEDICAL APPLICATIONS

Chair: Leon Rothkrantz, Delft University of Technology, Delft, The Netherlands

APTEC_04

A Virtual Environment to create Social Situations: First Step to a Virtual Exposure Therapy System for Social Phobia

Willem-Paul Brinkman, Fatma Inan and Charles A.P.G. van der Mast 103

APTEC_05

Presence for VR Exposure Therapy through 3D Architectural Visualization

Ervin Sabadi, Willem-Paul Brinkman and Charles A.P.G. van der Mast 108



ROOM B - 14.00-15.00

RISK MANAGEMENT AND ASSESSMENT SIMULATION

Chair: Hendrik Van Landeghem, Ghent University, Ghent, Belgium

FUBUTEC_03

Digital Technologies for Forest Fire Suppression: An Applied Step in Means Management

Yves Dumond 47

FUBUTEC_12

A Web Decision Support System for Gas Pipeline Risk Assessment

Andrzej Dietrich and Jakub Badowski 52

Thursday, 16th April 2009

15.00 - 15.30
COFFEE BREAK

15.45 - 16.30

SOCIAL PROGRAMME

A guided tour of the Canals of Bruges by Boat

19.30 - 23.00

19.30 – 23.00 FUBUTEC-ECEC-EUROMEDIA 2009 Conference Dinner



[Huisbrouwerij Halve Maan](#)

Walplein 26

8000 Bruges

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Parallel Sessions - Thursday

Friday, 17th April 2009

HALLWAY

Registration

09.00 - 09.30

09.00 – 10.00

ROOM A - 09.00-10.00 MULTIMEDIA STORYTELLING Chair:



MEDIATEC_01
The making of an Interactive Digital Narrative – *InStory*
Helena Barbas and Nuno Correia 35

MEDIATEC_02
Record, Replay & Reflect: A Framework for understanding (serious) Game Play
Anton Eliëns and Zsófi Ruttkay 42

ROOM B - 09.00-10.00 COMPLEX SYSTEMS SIMULATION Chair: Danny Van Welden, KBC, Brussels, Belgium



FUBUTEC_02
Aircraft Control Strategies in a Distributed Cooperative Mission Simulation Environment
Daniel Castro Silva, Ricardo Silva, Luis Paulo Reis and Eugénio Oliveira..... 35

FUBUTEC_04
The Mathematical Modeling on the Hybrid Computer Architecture for the Flight Simulator
Peter Kvasnica and Igor Kvasnica 42

10.00 – 10.30
COFFEE BREAK

Friday, 17th April 2009

10.30 - 12.00



ROOM A - 10.30-11.30

DATA TRANSMISSION AND SECURITY

Chair: Anton Eliens, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands

COMTEC_01

A High Performance Interference Canceller with Narrow Input for Carrier Superposed Satellite Communication

Takehiro Ishiguro, Shoko Kuroda, Sho Tanaka, Ryusuke Miyamoto, Takao Hara and Minoru Okada 117

WEBTEC_COM

Comparison of Attacks on IPV4 and IPV6 Protocols

Mojca Ciglaric, Andrej Krevl and Matjaz Pančur 122



ROOM B - 10.30-12.00

VERIFICATION AND OPTIMIZATION TOOLS

Chair: Danny Van Welden, KBC, Brussels, Belgium

FUBUTEC_11

Process Based management of Specific Grid Configurations: Verification of Changes

Irina Boyakhchyan, Armen Kostanyan, Vardan Matevosyan, Samvel Shoukourian and Anna Varosyan..... 57

FUBUTEC_01

Mobile Agent Optimization Analysis of Least Time Approach Versus V-Agent

Faiz Al-Shrouf, Mohammed Eshtay and Aiman Turani 62

FUBUTEC_06

Tool Based Analytical Support for practical Professional Soccer Training

Pedro Abreu, Vasco Vinhas, Luis Reis, Pedro Mendes and Júlio Garganta 68

Parallel Sessions - Friday

Friday, 17th April 2009

12.30 - 12.45



ROOM A 12.00 - 12.15

Closing Session and Best Paper Award

Chairs: Danny Van Welden, KBC, Brussels Belgium

SEE YOU ALL NEXT YEAR AT FUBUTEC-ECEC-EUROMEDIA'2010

IN APRIL 2010

(exact dates will be posted before June 30)

UPV Gandia

Gandia, Spain

**Proposals for workshops or special tracks can be sent in by June
30th of this year**

Proposals for sites for this conference from 2011 can be sent to

Philippe.Geril@eurosis.org

Conference Site Map



Conference Location

Conference Site Map

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 EUROSIS is to set up topic related Technical Committees which will link directly to European Projects in the field of computer simulation and related areas and to act as a knowledge pool for future European Networks of Excellence, like MOSAIC.

If you would like to receive more information about EUROSIS, please contact

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