

FINAL PROGRAM



28-30 April 2014

Novotel, Bruges

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NOTES

ECEC'2014 – FUBUTEC'2014 – EUROMEDIA'2014 FINAL PROGRAMME

Overhead and LCD Projector are standard
The underlined authors are usually the presenters.

Conference Site: Hotel 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

Only papers in gray boxes are eligible for the best paper award

Monday, April 28, 2014

08.30 - 15.30 **Registration**

09.00 - 09.15 **Welcome**
 Welcome Address
 Nicolae Vasiliu, Politehnica University of Bucharest, Bucharest, Romania

09.15 - 10.00 **Session I**

KEYNOTE SPEECH

09.15-10.00 **Session Chairperson:**
 Nicolae Vasiliu, Politehnica University of Bucharest, Bucharest, Romania

KEY_01
**Cyber-Physical Systems - new challenges for Science, Technology
 and Education**
Ioan Dumitrache, Romanian Academy of Sciences, University
 "Politehnica" of Bucharest, Bucharest, Romania

10.00 - 10.30 **Coffee/Tea Break**

Monday, April 28, 2014

10.30 - 12.30 **Session II**

CONCURRENT ENGINEERING DESIGN

10.30-12.30

Session Chairperson:

Nicolae Vasiliu, Politehnica University of Bucharest, Bucharest, Romania

ECEC_03_03

Reverse Engineering for the Utilization of Product Model Data for CAX Workflows in Dental Technology

Alexander Christ, Reinhard Heister and Reiner Anderl 47

ECEC_04_01

Concurrent Engineering in Articulated Steer Vehicle Design

Petru Cristinel Irimia, Dan Predică, Nicolae Vasiliu and Constantin

Călinoiu..... 55

ECEC_04_04

A New Type of Electrohydraulic Valvetrain System

Szilard Feher, Nicolae Vasiliu, Constantin Călinoiu, Bogdan Mihalescu

and Radu Puhalschi..... 63

ECEC_04_02

Using LabVIEW for Design and Deployment of Advanced Digital Protective Relays

V. Zileriu, M. Strentam and N. Vasiliu..... 68

12.30 - 14.00 **Lunch Break**

14.00 - 15.00 **Session III**

KEYNOTE SPEAKER

14.00-15.00

Session Chairperson:

Nicolae Vasiliu, Politehnica University of Bucharest, Bucharest, Romania

KEY_02

The not so happily ever after - On the use and usefulness of social simulations

Seyed M. Mussavi Rizi, Scensei, Zurich, Switzerland

Monday, April 28, 2014

15.00 - 15.20 **Coffee/Tea Break**

15.20 - 16.45 **Session IV**

E-LEARNING ENVIRONMENTS

15.20-16.45

Session Chairperson:

Jeanne Schreurs, Hasselt University, Hasselt, Belgium

ETEC_04

Telling The Story: An Interactive Multimedia Exhibit narrating the 900 Years of The Alma Mater

Marco Roccetti, Gustavo Marfia, Fabio Roversi Monaco, Angelo Varni and Marco Zanichelli **5**

ETEC_06

Online Tutor-Student Interaction could compensate The Lack of Motivational Effects that Characterize Face-to-Face Learning

Oussama H. Hamid..... **10**

ETEC_01

Smart Teaching Technologies used in a Hybrid Learning Course Model

Jeanne Schreurs..... **107**

Boat Tour of Bruges

17.00-18.00

Boat Tour



All conference participants are invited to take part in the boat tour of the canals in Bruges. We leave the hotel at 16.45 and walk to the jetty.

FREE EVENING

Tuesday, April 29, 2014

09.00 - 14.00 **Registration**

09.00 - 10.00 **Session IV**

INVITED SPEAKER

09.00-10.00

Session Chairperson:

Philippe Geril, EUROSIS, Ostend, Belgium

INV_01

Modular SkyScrapers for MegaCities

Hans Degraeuwe, Degraeuwe Consulting NV, Belgium

10.00 - 10.30 **Coffee/Tea Break**

10.30 - 12.30 **Session V**

PROJECT PLANNING

10.30-12.30-

Session Chairperson:

Oussama Hamid, Arab Open University, Kuwait

FUB_BUS_01

A Gene Expression Programming Approach for Optimizing Technical Rules in the Foreign Exchange Market

Fatema H. Alaiwy, Mona H. Alaiwy

and Oussama H. Hamid.....21

FUB_BUS_05

A Reference Model to support Public Procurement Project Planning

Vrassidas Leopoulos and Maria Fouskolagoudaki26

ECEC_08_01

A Smart Platform for Dynamic Enterprises Collaboration

Codé Diop, Aymen Kamoun, Emna Mezghani

and Ernesto Exposito.....31

ECEC_09_01

Principles of Agile Systems Engineering

Iris Graessler39

Tuesday, April 29, 2014

12.30 - 14.00 **Lunch Break**

14.00 - 15.00 **Session VI**

INVITED SPEAKER

14.00-15.00

Session Chairperson:

Nicolae Vasiliu, Politehnica University of Bucharest, Bucharest, Romania

INV_02

Title to be announced

Joeri Van Dooren, WeePee NV, Belgium

15.00 - 15.30 **Coffee Break**

15.30 - 17.30 **Session VII**

CONCURRENT ENGINEERING IN ENERGY APPLICATIONS

15.30-17.30

Session Chairperson:

Nicolae Vasiliu, Politehnica University of Bucharest, Bucharest, Romania

ECEC_10_01

Using Virtual Laboratories in Concurrent Engineering

Daniela Vasiliu, Nicolae Vasiliu, Constantin Călinoiu, Bogdan Mihalescu,
Marius D. Bontoș and Radu Puhalschi **73**

ECEC_03_01

RT Simulation of Wind Power Station with NI LabVIEW

M. Stremțan, V. Zileriu and N. Vasiliu **83**

ECEC_03_04

Concurrent Engineering in Wind Turbines Design

Dan Predică, Petru Cristinel Irimia and Nicolae Vasiliu **89**

ECEC_07_01

**Concurrent Engineering Approach of the Electrohydraulic Control
Systems for Power Plants**

Radu Puhalschi, Constantin Calinoiu, Daniela Vasiliu
and Nicolae Vasiliu **96**

Tuesday, April 29, 2014

17.30 - 17.45 **Session VIII**

CLOSING SESSION

17.30-17.45-

Session Chairpersons:

Nicolae Vasiliu, Politehnica University of Bucharest, Bucharest, Romania

Philippe Geril, EUROSIS, Ostend, Belgium

Best Paper Award Ceremony and closing statements

19.30 -


CONFERENCE DINNER





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Wednesday, April 30, 2014

09.00 - 18.00 **Visit to Ypres**

A day in Ypres

09.00-10.00- Departure and trip to Ypres

Departure in front of the Novotel in Bruges and trip to Ypres

10.30-12.00- Visit to the In Flanders Field Museum



12.30-13.30- Lunch

14.00-15.00- Visit to the Ypres City Museum

15.00-17.00- A Walk around Ypres



17.00-18.00- Return to Bruges

CONFERENCE LOCATION MAP



ECEC'2015-FUBUTEC'2015-EUROMEDIA'2015

**SEE YOU NEXT YEAR
AT ECEC'2015- FUBUTEC'2015 - EUROMEDIA'2015
April 27-29, 2015 – IST Campus, Lisbon, Portugal**



Suggestions for tracks and workshops can be sent in by September 1st 2014

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL

Session Chairs are chosen on a voluntary basis by proposals by either authors or local committee members or are appointed by the Track Chairs, General Program Chair or General Conference Chair. They are responsible for their assigned session. They make sure their speakers are available, take care of the timing within the session, chair the discussion after each presentation and introduce each speaker based on the CV's given to them by the authors. **If a session chair is not available then the first author takes on the responsibility to chair**

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>

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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 Society 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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