

FINAL PROGRAM



18-20 April 2012

JW Marriott Hotel, Bucharest, Romania

Organized by



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Contents

Contents

Badges	5
Best Paper Award.....	6
Conference Location.....	4
Conference Proceedings	5
General Information	4
Meeting Room.....	6
Need Help?.....	5
Notes	10
Registration	5
Room Legend	6
Social Event and Lunches	5
Tickets	5
Quick Program Overview.....	7
Scientific Program.....	11
Wednesday, April 18	11
Thursday, April 19	15
Friday, April 20	18
Conference Dinner	17
Conference Map.....	20
EUROSIS Info.....	21

General Information

1. Conference Location

The **ECEC-EUROMEDIA-FUBUTEC'2012 Conference** is being held at the





[Hotel JW Marriott](#)

Calea 13 Septembrie 90

Bucharest,

050726 Romania

 Tel: (+40)21-4030000

 Fax: (+40)21/4030001

The registration desk will be placed in the hallway on the **first floor in the corridor near the meeting room** from Wednesday morning April the 18th onwards, where registration will start at 08.00 a.m. and will end at 5.00 p.m. On Thursday April 19th registration will be from 8.30 a.m. - 5.00 p.m. with Friday registration only from 8.30 a.m.- 9.00. a.m. The way to the conference and desk will be signposted.

ALL MAJOR MAPS ARE AT THE BACK OF THIS PROGRAMME

How to reach the conference location:

From the Otopeni airport you can either take

Express bus 783, and **change at Piata Unirii with bus 385**, which further stops right in front of the Marriott hotel (route with 385: Piata Unirii - Piata Natiunile Unite Elie Radu - Pod Izvor - Palatul Parlamentului - Dr. Staicovici – Piata Arsenalului)

Alternatively, from Otopeni Airport, take Express bus 780 goes from Otopeni Airport to Gara de Nord, from where one has to take bus 178 (Gara De Nord Witing - Mircea Vulcanescu - Berzei - Cismigiu - Sala Palatului) - and walk for 5 min from bus stop Sala Palatului to Marriott.. **The nearest bus stop to the hotel is: Piata Arsenalului via bus 385.**

or you can take a taxi Currently the only taxi company licensed to pick-up passengers from the airport is **Fly Taxi** (telephone: 9411). Fly Taxi's fee per km for trips from the airport is about 3.30 Lei (\$1.8/mile). **Note:** Fly Taxi is not the best alternative for in-city taxi booking. Therefore it is advisable to only use Fly Taxi when coming from the Henri-Coanda airport to Bucharest, and use another taxi company to get back to the airport. The average fare from the International Airport 'Henri Coanda' is approximately 45 euros.

Use this link for latest travel info to the hotel:

http://www.marriott.com/hotelwebsites/us/b/buhro/buhro_pdf/Transportation%20in%20Bucharest.pdf

General Information

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	€30
Extra lunch ticket	€25/lunch

4. Registration

The ECEC-EUROMEDIA-FUBUTEC'2012 Registration Desk will be open for information and registration on the first floor of the hotel

Wednesday, April 18..... 8.00 a.m. to 5.00 p. m.
Thursday, April 19..... 8.30 a.m. to 5.00 p. m.
Friday, April 20..... 8.30 a.m. to 9.00 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 ECEC/FUBUTEC-EUROMEDIA Conference Proceedings (printed format). **This is NOT applicable to students who are not authors and who have not fully registered.** (Extra copies are available on a cash and carry basis at special rates during **ECEC-EUROMEDIA-FUBUTEC'2012**)

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

FUBUTEC-ECEC'2012 Proceedings CASH AND CARRY	€30
EUROMEDIA'2012 Proceedings CASH AND CARRY	€40

6. Meeting Room

The meeting room for the conference is on the first floor and is designated as **SALON A**. The way to the room will be signposted.

7. Need Help?

Please see the conference desk for your questions

General Information

8. Social Event and Lunches

All full registrants are invited to all Lunches and Coffee Breaks which are served at the JW Marriott Hotel. Participants need to show their badge at the entrance of the cafeteria. On the 18th from 5.30 p.m. onwards a visit is envisaged to the research facilities of the University POLITEHNICA of Bucharest. More info on the visit at the conference itself.

The Conference Dinner

All participants are invited to the conference dinner on **THURSDAY** the 19th of **April** at the **Hanu' Berarilor (Casa Oprea Soare)** restaurant. As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Wednesday evening**. The restaurant is within walking distance from the hotel. **Departure from the hotel at 7.30 p.m..**

9. Room Legend

The meeting room will be designated as the **MEETING ROOM**. Signposts will indicate the way to the 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 ECEC-FUBUTEC-EUROMEDIA'2012 conference

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

WEDNESDAY, 18th APRIL 2012	
08.30-17.00	REGISTRATION
08.45-09.00	OPENING SESSION AND WELCOME
09.00-10.00	SESSION I –INTRODUCTION
09.00-09.15	Hardware-in-the-Loop Simulation – A Concurrent Engineering Tool Nicolae Vasiliu
09.15-10.00	SESSION I - KEYNOTE SPEAKER
	Innovation Engineering by Simulation Herman Van der Auweraer
10.00-10.30	COFFEE BREAK
10.30-12.30	SESSION II
	PRODUCTION OPTIMIZATION AND QUALITY ASSURANCE
12.30-13.30	LUNCH BREAK
13.30-14.30	SESSION III
	QUALITY ASSURANCE
14.30-15.00	COFFEE BREAK
15.00-17.30	SESSION IV
	LEARNING, DIAGNOSIS AND SECURE TELECOM SYSTEMS
17.30-18.30	Guided tour to the labs at the University POLITEHNICA of Bucharest
	FREE EVENING

THURSDAY, 19th APRIL 2012

08.30-17.00	REGISTRATION
09.00-10.00	SESSION V - INVITED SPEAKER
	Challenges and Trends in Software Service Based Systems Valentin Cristea
10.00-10.30	COFFEE BREAK
10.30-12.30	SESSION VI
	CLOUD COMPUTING
12.30-13.30	LUNCH BREAK
13.30-14.30	SESSION VII - TUTORIAL
	Detection of Human Activities and Human Intentions through Cognitive Architecture Ignazio Infantino
14.30-15.00	COFFEE BREAK
15.00-17.30	SESSION VIII
	COLLABORATIVE ENGINEERING AND KNOWLEDGE ENGINEERING
20.00 – 23.00	CONFERENCE DINNER

FRIDAY, 20th APRIL 2012

08.30-09.00	REGISTRATION
09.00 10.00	SESSION IX
	ONLINE COMMUNITIES
10.00-10.30	COFFEE BREAK
10.30 12.00	SESSION X
	ONLINE COMMUNITIES AND TELECOM SYSTEMS
12.00-12.15	CLOSING SESSION AND BEST PAPER AWARD

Notes

NOTES

Wednesday, 18th April 2012

HALLWAY FIRST FLOOR

Registration

08.00 - 17.00

MEETING ROOM FIRST FLOOR

08.45 – 10.00

Opening ECEC-EUROMEDIA-FUBUTEC'2012

Welcome

Introductory Speech and Keynote Speech

Welcome Address

Dr. Ciprian Dobre, POLITEHNICA University of Bucharest

Dr. Mihnea Costoiu, Rector of UPB

Professor Nicolae Tepus, POLITEHNICA University of Bucharest

Professor Adina Magda Florea, POLITEHNICA University of Bucharest

Professor Dan Stefanoiu, POLITEHNICA University of Bucharest

09.00 – 09.15

INTRODUCTORY SPEECH

Chair: Ciprian Dobre, POLITEHNICA Univ. of Bucharest, Romania

Hardware-in-the-Loop Simulation – A Concurrent Engineering Tool

Nicolae Vasiliu and Petru Cristi Irimia, POLITEHNICA University of Bucharest, Romania

09.15 – 10.00

KEYNOTE SPEECH

Chair: Nicolae Vasiliu, POLITEHNICA Univ. of Bucharest, Romania

Innovation Engineering by Simulation

Herman Van der Auweraer, LMS International, Heverlee, Belgium


Welcome - Wednesday

Wednesday, 18th April 2012

**10.00 - 10.30
COFFEE BREAK**

10.30 – 12.30

**MEETING ROOM - 10.30-12.30
PRODUCTION OPTIMIZATION**
Chair: Florin Pop, POLITEHNICA Univ. of Bucharest, Romania



ECEC_10_03
A Direct Method for assessing the Influence of Material Couples on the Swashplate Angle of Axial Piston Pumps
Adrian Ciocanea 21

ECEC_05_01
Concurrent Engineering by Hardware-in-the-Loop Simulation with R-T Workshop
Radu Puhalschi, Daniela Vasiliu, Daniel Dragos Ion Guta and Bogdan Mihalescu 27

FUB_ECO_03_ECEC
Simulation Supporting Concurrent Research Engineering: Electrifying Auxiliaries for Low Carbon Conventional Vehicles
Claudia Mathis, Alfred Steinhuber and Raul Estrada Vazquez..... 32

MEDIATEC_03
A Validation of Pace Rating using Video Technology
Peeradaech Suwittayarak and Dirk Van Goubergen 39

**12.30 - 13.30
LUNCH BREAK**

Wednesday, 18th April 2012

13.30 – 14.30

MEETING ROOM: 13.30 – 14.30
QUALITY ASSURANCE



Chair: Catalin Leordeanu, POLITEHNICA Univ. of Bucharest, Romania

ECEC_08_02

Semantic Technologies and Augmented Reality for Inspection and Maintenance Processes

Janek Götze, Egon Müller, Andreas Rutsch
and Christian-Andreas Schumann 45

ECEC_03_04

Intelligent Manufacturing Systems based on Noise and Vibration Investigation

Miron Zapciu and Nicolae Boicea..... 49

14.30 - 15.00

COFFEE BREAK

MEETING ROOM - 15.00-17.30



LEARNING, DIAGNOSIS AND SECURE TELECOM SYSTEMS

Chair: Dan Stefanoui, POLITEHNICA Univ. of Bucharest, Romania

APTEC_01

Supporting Learning-By-Doing Situations by Semantic Technologies

Danail Dochev and Gennady Agre..... 49

APTEC_02

Using a cognitive model to include human emotions and intentions in Human-Machine Interaction

Ignazio Infantino, Giovanni Pilato, Riccardo Rizzo and Filippo Vella..... 54

WORK_01

Computer Aided Diagnosis Methods Based on Fractal and Spatial Series Analysis for Kidney CT Images

Andreea Udrea and Mihai Tanase 59

Sessions - Wednesday

Wednesday, 18th April 2012

COMTEC_02

Toward a Secure Data sharing Peer to Peer Network based on Geometric and Semantic Distances

Ana-Delia Sâmbotin and Mugurel Ionuț Andreica 93

FUB_EMER_02_COMTEC

Security Communication Layer for Public Distributed Reporting Services

Decebal Popescu, Ciprian Dobre, Florin Pop, Nirvana Popescu

and Valentin Cristea 100

17.30 - 18.30

GUIDED TOUR



A Guided tour of the facilities at the University POLITEHNICA of Bucharest is open to all participants. We leave together as a group from the hotel to the University.

If you wish to go there by yourself then see below:

From the Marriott hotel to UPB, one has to take bus 136 (in front of Marriott is the bus station called Piata Arsenalului), and take off at bus stop called UPB (Piata Arsenalului - Spitalul Dr. Burghel - Dr.mihai Ciuca - Univ. Nationala De Aparare - Piata Leul - Bd. G-ral Vasile Milea -UPB).

Alternatively, from Marriott go to Izvor subway station (5 min walk), and take M1 metro towards Preciziei (look for the subway marked with Preciziei), route: Izvor – Eroilor - Politehnica. UPB is right next to the subway exit.

FREE EVENING

Thursday, 19th April 2012

HALLWAY FIRST FLOOR

Registration

08.30 - 17.00

09.00 – 10.00

MEETING ROOM: 09.00 – 10.00

INVITED SPEECH

Chair: Nicolae Vasiliu, POLITEHNICA Univ. of Bucharest, Romania



Challenges and Trends in Software Service Based Systems

Valentin Cristea, POLITEHNICA University of Bucharest, Romania

10.00 - 10.30

COFFEE BREAK

10.30 - 12.30

MEETING ROOM - 10.30-12.30

CLOUD COMPUTING

Chair: Dan Stefanoui, POLITEHNICA Univ. of Bucharest, Romania



WEBTEC_02_CLOUD

ReC²S: Reliable Cloud Computing System

Alecsandru Patrascu, Catalin Leordeanu, Ciprian Dobre

and Valentin Cristea5

Sessions - Thursday

Thursday, 19th April 2012

ECEC_03_02_CLOUD
Temperature monitoring and control with cloud instrumentation
 Petru Adrian Coffas, Daniel Coffas, Ramona–Georgiana Oros, Doru Ursutiu
 and Cornel Samoila 14

WEBTEC_01_CLOUD
Social Cloud for personalized information retrieval
Alexandru Agape 18

WEBTEC_03
Digua: Minifier and Obfuscator for Web Resources
Alex Ciminian and Ciprian Dobre 21

12.30 - 13.30
LUNCH BREAK

13.30 - 14.30

MEETING ROOM: 13.30 – 14.30
TUTORIAL
Chair: Dan Stefanoui, POLITEHNICA Univ. of Bucharest, Romania

Detection of Human Activities and Human Intentions through Cognitive Architecture
Ignazio Infantino, ICAR-CNR, Palermo, Italy

14.30 - 15.00
COFFEE BREAK

15.00 - 17.30

MEETING ROOM - 15.00-17.30
COLLABORATIVE AND KNOWLEDGE ENGINEERING
Chair: Ciprian Dobre, POLITEHNICA Univ. of Bucharest, Romania



ECEC_07_01
Collaborative Product Design & Development Process Modeling
Bruno Raffaele Trinchera 5

Thursday, 19th April 2012

ECEC_08_01 A Semantic Adaptive Framework for Collaborative Systems <u>Aymen Kamoun, Saïd Tazi and Khalil Drira</u>	10
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FUB_KNOW_01 Metaknowledge for Intelligent Simulation <u>Tudor Niculiu, Maria Niculiu and Sorin Cotofană</u>	55
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ECEC_10_01_FUB Practical Solutions for Small Hydro Power Plant Design <u>Vlad Florin Pîrăianu and Cornel Ilinca</u>	59
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FUB_ECO_01 Estimation by Simulating the net Heat Transfer Rate into aquatic Ecosystems <u>Gabriela E. Dumitran and Liana I. Vuta</u>	63
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CONFERENCE DINNER – 20.00 -23.00

The conference dinner will be held at the following restaurant



Hanu' Berarilor
(Casa Oprea Soare) | [Vezi harta](#)
Str. Poenaru Bordea, nr. 2
 Tel: 021 336.80.09
<http://www.hanuberarilor.ro/ro/despre-noi>

As the restaurant is within walking distance from the hotel we will leave the hotel at 7.30 p.m for dinner.

Friday, 20th April 2012

HALLWAY FIRST FLOOR

Registration

08.30 - 09.00

09.00 – 10.00

MEETING ROOM: 09.00 – 10.00



ONLINE COMMUNITIES

Chair: Dan Stefanoui, POLITEHNICA Univ. of Bucharest, Romania

MEDIATEC_01

Computer Technology: A Tool in the hand of the Artist?

Canan Hastik and Arnd Steinmetz 35

APTEC_03_ETEC

Social Shopping Adviser: Recommendation platform based on mobile services

Elena Burceanu, Ciprian Dobre and Valentin Cristea 39

10.00 - 10.30

COFFEE BREAK

10.30 - 12.00

MEETING ROOM- 10.30-12.00



TELECOM SYSTEMS

Chair: Dan Stefanoui, POLITEHNICA Univ. of Bucharest, Romania

COMTEC_05

Benchmark Analysis for Advanced Distributed Data Storage for Heterogenous Clusters

Catalin Negru, Florin Pop, Ciprian Dobre and Valentin Cristea 67

Friday, 20th April 2012

COMTEC_01_MEDIA

Proposal of a Smooth Channel Switching Mechanism for P2P Streaming and its Application

Naomi Terada, Eiji Kominami, Atsuo Inomata, Kazutoshi Fujikawa, Eiji Kawai and Hideki Sunahara73

COMTEC_03

Wireless Router as a Physical Access Control System (WRPACS)

Dragos George Comaneci, Silvia Cristina Stegaru and Ciprian Dobre78

MEETING ROOM 12.00 - 12.15

BEST PAPER

CLOSING SESSION AND BEST PAPER AWARD

Chairs: Ciprian Dobre, Nicolae Vasiliu and Dan Stefanoui, POLITEHNICA Univ. of Bucharest, Romania

SEE YOU ALL

**APRIL 2013
FOR
FUBUTEC'2013
ECEC'2013
And
EUROMEDIA'2013**

Location to be decided soon!!!

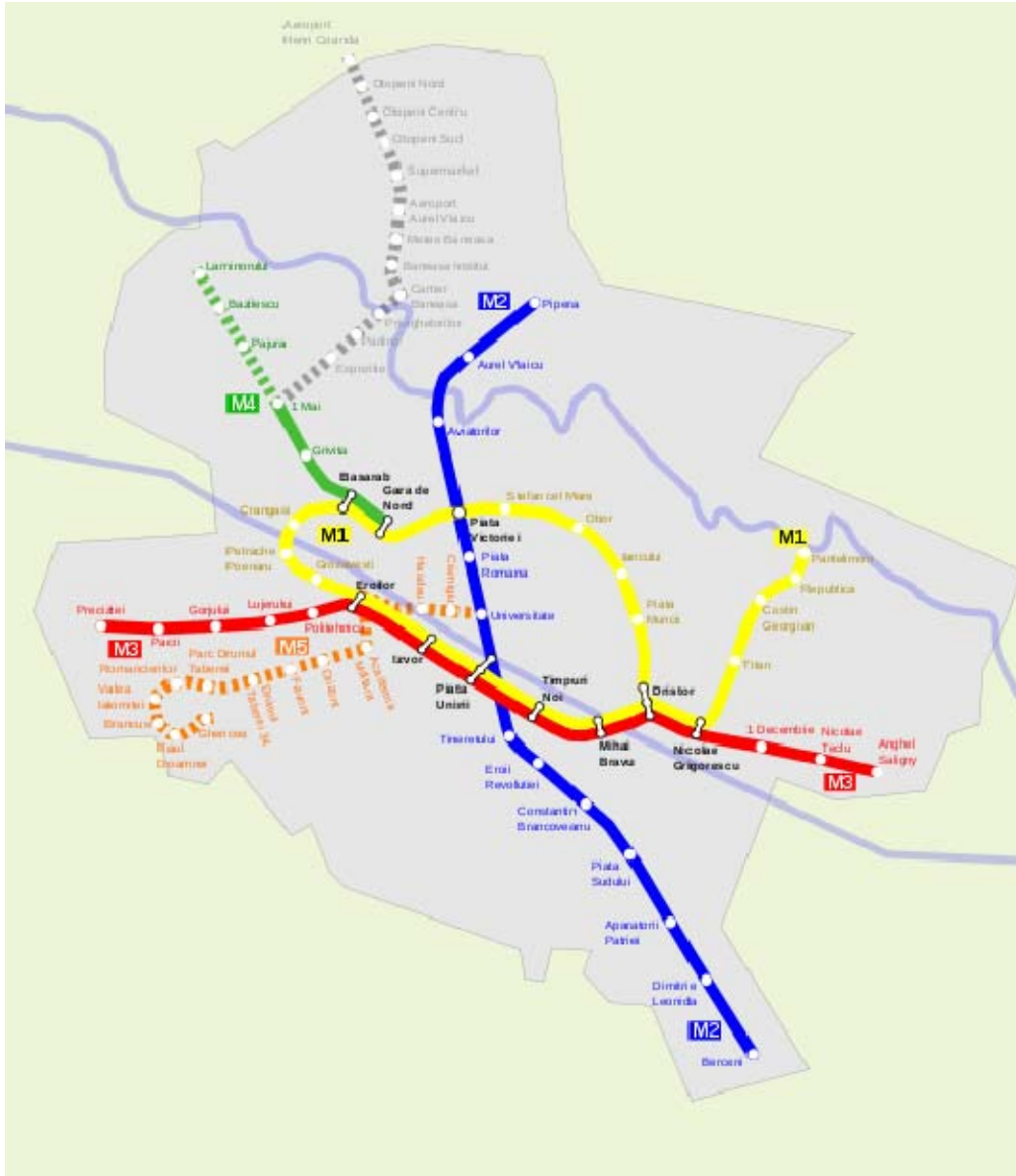
**Track proposals and tutorial proposals can be sent in by
September 30th, 2012**

**Information on all 2012-2013 EUROSIS
Events can be found on
<http://www.eurosis.org>**

Sessions - Friday

Conference Map

Conference Map



Bucharest Metro 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 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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.....

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