FINAL PROGRAM

2008

9-11, April 2008
Porto, Portugal

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DGINFSO

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General Information

1.1 Conference Location

The Conference itself is held at

Faculdade de Engenharia da Universidade do Porto
Rua Dr. Roberto Frias, s/n
4200-465 Porto, PORTUGAL
Tel: +351 22 508 14 00 / Fax: +351 22 508 14 40
http://www.fe.up.pt

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 8.00 a.m. till 5.00 p.m. On Thursday it will be from 8.30 a.m. - 4.00 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 Air

Porto is served by Francisco Sá Carneiro Airport (IATA: OPO) which is located some 15km to the north-west of the city centre. The airport is served by Line E of Porto Metro, linking it to downtown Porto, pendolino trains and Estádio do Dragão, and by transfer to other urban centres of Greater Porto

STCP Buses link the airport and the city. Individual fare is €1.20. AEROBUS is a relatively fast connection between the Airport and downtown Porto, including the city's leading Hotels, every 30 minutes, from 07h45m till 19h15m. The fare is €4.00 and the ticket is valid on all STCP lines, until midnight of the same day.

By Bus

Search for a bus-stop of the bus number 6, which takes you direct to the University.

By Metro

This is the best way for reaching the conference. FEUP is about 300 m away from the final station. Take the Metro YELLOW line (Line D) in the centre of the town in the direction of "P. Universitário" and get out on this last stop.

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 as well as the workshop participants 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

conference dinner:	**€ 50**
lunch	**€ 20**

1.5 Registration

The **FUBUTEC-EUROMEDIA-ECEC'2008** Registration Desk will be open for information and registration:

Wednesday, April 9.....8.30 a.m. to 5.00 p. m. in the hallway
Thursday, April 10.....8.30 a.m. to 4.00 p. m. in the hallway
Friday, April 11.....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 FUBUTEC2008-Euromedia'2008-ECEC2008)

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

EUROMEDIA'2008 Proceedings	**€ 35**
ECEC'2008 –FUBUTEC 2008 Proceedings	**€ 25**

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

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** will be held on **Wednesday April 9th at 5.00 p.m at the University of Porto,** as well as the **coffee breaks.**
Lunches on **Wednesday** and **Thursday** will be served outside the University in **a restaurant** nearby.

The Conference Dinner
All participants are invited to the conference dinner which will be held **at Tromba Rija on the 10th of April from 8.00 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)

Tromba Rija Gaia
Avenida Diogo Leite, 102
2400 - 406 - Vila Nova de Gaia - Portugal
Tel.: +351 223 743 762
Fax: +351 223 743 763
Telemóvel: +351 968 603 750
e-mail:
reservasgaia@trombarija.com

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'2008, EUROMEDIA'2008 and ECEC'2008 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

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, 9th APRIL 2008		
08.30-17.00	REGISTRATION	
09.00-10.00	OPENING SESSION AND KEYNOTE SPEECH BY JOSE TRIBOLET MAIN ROOM	
10.30-10.30	COFFEE BREAK	
	PARALLEL SESSIONS	
10.30-12.30	ROOM A	ROOM B
	MEDICAL IMAGING I	DATA MANAGEMENT AND PERFORMANCE ESTIMATION
12.30-14.00	LUNCH BREAK	
	PARALLEL SESSIONS	
14.00-15.00	ROOM A	ROOM B
	VIDEO CODING	WORKFLOW SIMULATION
15.00-15.30	COFFEE BREAK	
15.30-17.00	ROOM A	ROOM B
	MEDICAL IMAGING II	SCHEDULING METHODOLOGY
17.00-18.00	GET-TOGETHER PARTY	

THURSDAY, 10th APRIL 2008		
08.30-16.00	REGISTRATION	
	PARALLEL SESSIONS	
09.00-10.00	ROOM A	ROOM B
	VIRTUAL WORLDS AND WEB BASED SERVICES I	EMERGENCY RISK AND SAFETY CRITICAL SYSTEMS AND MODELS I
10.00-10.30	COFFEE BREAK	
10.30-12.30	PARALLEL SESSIONS	
	ROOM A	ROOM B
	DATA DETECTION AND MANIPULATION I	EMERGENCY RISK AND SAFETY CRITICAL SYSTEMS AND MODELS II
12.30-14.00	LUNCH BREAK	
	PARALLEL SESSIONS	
14.00-15.00	ROOM A	ROOM B
	VIRTUAL WORLDS AND WEB BASED SERVICES II	CELLULAR NETWORKS
15.00-15.30	COFFEE BREAK	
	PARALLEL SESSIONS	
15.30-18.00	ROOM A	ROOM B
	DATA MANIPULATION AND APPLICATIONS	CASE STUDIES
20.00-22.30	CONFERENCE DINNER	

FRIDAY 11TH APRIL 2008		
09.00-09.30	REGISTRATION	
	PARALLEL SESSIONS	
09.00 10.00	ROOM A	ROOM B
	D-TV I	CE IN THE CONSTRUCTION INDUSTRY I
10.00-10.30	COFFEE BREAK	
	PARALLEL SESSIONS	
10.30 12.30	ROOM A	ROOM B
	D-TV II	LOGISTICS APPLICATIONS
12.30-12.45	CLOSING SESSION AND BEST PAPER AWARD ROOM A	

Friday, 9th April 2008

HALLWAY

Registration

08.30 - 17.00

MAIN ROOM (B032)

09.00 – 10.00

09.00-09.15

Opening FUBUTEC 2008 - ECEC 2008- EUROMEDIA2008 and Welcome

Welcome Address

Joao Tavares and Antonio Carvalho Brito
University of Porto
FEUP
EUROMEDIA'2008 and ECEC-FUBUTEC'2008 Conference Chairs

Wednesday, 9th April 2008

MAIN ROOM (B032)

09.15 - 10.00

Chair: Antonio Carvalho Brito, University of Porto, Portugal

KEYNOTE
Organization Self-awareness and Collective Intelligence
Professor Jose Tribolet, IST-INESC, Lisbon, Portugal

Wednesday, 9th April 2008

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

ROOM A- 11.00-12.30
MEDICAL IMAGING I
Chair: Joao Tavares, University of Porto, Porto, Portugal

WORK_03
Biomechanical Analysis of the Human Middle Ear
Fernanda Gentil, Renato Natal Jorge, Marco Parente, Pedro Martins, Fatima Alexandre, António Ferreira and Eurico Almeida **105**

WORK_04
Segmentation and Simulation of Object in Pedobarography Images using Physical Principles
Patrícia C.T.Gonçalves, João Manuel R.S.Tavares and R.M.Natal Jorge..... **109**

WORK_05
Tools for an Ultrasound Based 3D Bone Model Reconstruction, Registration and Visualization System
Paulo Jorge Sequeira Gonçalves and Joaquim Moísés Fernandes **114**

WORK_06
NUFFT-based Direct Fourier Methods and Regional Tomography
Silvia De Francesco and Augusto Silva **118**

ROOM B- 11.00-12.30
DATAMANAGEMENT AND PERFORMANCE ESTIMATION
Chair: Christophe Roche, Universite de Savoie, Le-Bourget-du-Lac, France

FUBUTEC_06
Using Data Mining to Predict Secondary School Student Performance
Paulo Cortez and Alice Silva **29**

Wednesday, 9th April 2008

FUBUTEC_08
Electronic Health Record in the TTF Framework
Elena Ciancimino and Salvatore Cannella **13**

ECEC_07_03
MPSOC Design Flow Based of Performance Estimation
Kamel Smiri, Abderrazek Jemai, Nihel Chibani and Mohamed Moalla **19**

ECEC_07_02
Signal-Based predictive Condition Monitoring
Egon Müller and Steffen Leischnig **27**

12.30 - 14.00
LUNCH BREAK

14.00 – 15.00

ROOM A- 14.00-15.00
VIDEO CODING
Chair: Renato Natal Jorge, University of Porto, Porto, Portugal

MEDIATEC_01
High-Level Parallel H264/AVC Encoder Specification for Multiprocessor Implementation
Hajer Krichene Zrida, Abderrazek Jemai, Ahmed Chiheb Ammari and Mohamed Abid **31**

MEDIATEC_07
Complexity Constrained Video Coding for Decoders with Limited Resources
Paulo J. Cordeiro, Juan Gomez-Pulido and Pedro A. Assunção **38**

ROOM B- 14.00-15.00
WORKFLOW SIMULATION
Chair: Manuel Feliz Teixeira, University of Porto, Porto, Portugal

FUBUTEC_05
Partial Recognizing Algorithm for Verification of Workflow Processes
Armen Kostanyan and Anna Varosyan **89**

Wednesday, 9th April 2008

ECEC_06_02
Modelling Time-Constrained Collaborative Workflows based on timed Recursive Ecatnets
Kamel Barkaoui and Awatef Hicheur **95**

15.00 - 15.30
COFFEE BREAK

15.30 – 17.00

ROOM A- 15.30-17.00
MEDICAL IMAGING II
Chair: Joao Tavares, University of Porto, Porto, Portugal

WORK_07
Medical Imaging in the XXI Century: the place of Functional Imaging and Nuclear Medicine
Luís F. Metello and Lídia Cunha **123**

WORK_08
Detecting Abnormalities in Endoscopic Capsule Images using Color Wavelet Features and Feed-Forward Neural Networks
Carlos S. Lima, Daniel Barbosa, Jaime Ramos, Adriano Tavares, Luis Carvalho and Luis Monteiro **128**

WORK_02
Mapping Pelvic Floor Closure Forces Using Novel Multidirectional Vaginal Probe
Qiyu Peng, Christos E.Konstantinou and Sadao Omata **133**

ROOM B - 15.30-17.00
SCHEDULING METHODOLOGY
Chair: José Fernando Gonçalves, University of Porto, Porto, Portugal

FUBUTEC_10
A Robust What-if Bullwhip Analysis
Salvatore Cannella and Elena Ciancimino **33**

Wednesday, 9th April 2008

ECEC_07_04
Holistic Metrics Applied to a Practical Supply Chain Study
António E. S. Carvalho Brito and J. Manuel Feliz-Teixeira **41**

ECEC_07_06
Heuristic Approach as a Way to Improve Scheduling in ERP/APS Systems
František Koblasa, Luís S. Dias, José A. Oliveira and Guilherme Pereira..... **47**

17.00 - 18.00
GET-TOGETHER PARTY at the University

Thursday, 10th April 2008

HALLWAY

Registration

08.30 - 16.00

09.00 – 10.00

ROOM A- 09.00-10.00
VIRTUAL WORLDS AND WEB-BASED SERVICES I
Chair: Dragos Datcu, Delft University of Technology, Delft, NL

WEBTEC_03
A Case Study of Using Web Based Services in Higher Education
Hani Alers and Charles van der Mast **5**

WEBTEC_04
Providing Multimedia Recommendations Based a Markov Decision Process inside E-Learning Platforms
Mihaela Brut, Romulus Grigoras, Vincent Charvillat and Florence Sedes **11**

ROOM B - 09.00-10.00
EMERGENCY, RISK AND SAFETY CRITICAL SYSTEMS AND MODELS
Chair: Rachel Moreau, Universiteit Hasselt, Hasselt, Belgium

FUBUTEC_07
The FLOREAN System: Emergent Flood Prediction
Ivo Vondrák, Jan Martinovič, Jan Kožusznik, Svatopluk Štolfa and Jan Unucka **55**

FUBUTEC_03
Defining Project Risk Management Efficiency through Simulation
Konstantinos Kirytopoulos, Viktor Diamantas and Vrassidas Leopoulos **58**

Thursday, 10th April 2008

10.00 - 10.30
COFFEE BREAK

10.30 - 12.30

ROOM A 10.30-12.30
DATA DETECTION AND MANIPULATION
Chair: Renato Natal Jorge, University of Porto, Porto, Portugal

MEDIATEC_05
On Dual View Lipreading Using High Speed Camera
Alin G. Chitu and Leon J.M. Rothkrantz **43**

MEDIATEC_08
Behaviour Detection in Dutch Train Compartments
Z. Yang, A. Keur and L. J. M. Rothkrantz **52**

MEDIATEC_09
Semantic Audio-Visual Data Fusion for Automatic Emotion Recognition
Dragos Datcu and Leon J. M. Rothkrantz **58**

MEDIATEC_02
A Tool for turning a Series of digital Photographs into dynamic Video Flux
Philippe Codognet **69**

ROOM B - 10.30-12.30
EMERGENCY, RISK AND SAFETY CRITICAL SYSTEMS AND MODELS II
Chair: Antonio Carvalho Brito, University of Porto, Porto, Portugal

ECEC_06_01
ICT Security Management and Risk Management
Jeanne Schreurs and Rachel Moreau **63**

Thursday, 10th April 2008

FUBUTEC_09
Extension of Formal Concept Theory for Organization Structure Analysis
Jan Kozusznik and Ivo Vondrak **71**

ECEC_01_01
Towards an Integrated Corporate Information System: Building up a Sales Product Data Model to cope with the emerging Complexity of E-Business
Christian-Andreas Schumann and Andreas Rutsch **74**

ECEC_08_01
An Architecture for Collaborative Working Environments in Manufacturing Industry
Ana Correia, Cristina Grama, Dragan Stokic, Ana Campos, Rui Neves Silva and Jon Aguirre **79**

12.30 - 14.00
LUNCH BREAK

14.00 - 15.00

ROOM A - 14.00-15.00
VIRTUAL WORLDS AND WEB BASED SERVICES II
Chair: Gerhard Hasslinger, Deutsche Telekom, Darmstadt, Germany

WEBTEC_05
The Automatic Identification of the Emotion Status of Web Pages
David John and Anthony C. Boucovalas **18**

WEBTEC_02
DigiMem: Representing Memories in Digital Format
Georgios D. Styliaras **23**

Thursday, 10th April 2008

ROOM B - 14.00-15.00
CELLULAR NETWORKS
Chair: to be announced later

ECEC_09_01
Concurrent Engineering as Means of Reducing Cellular Network Deployment Time
Naveed ur Rashid Mir and Irfan A Manarvi

ECEC_10_03
Using Concurrent Engineering for Enhancing Customer Voice Channels Capacity in a Telecom Company
Nadia Zaheer and Irfan A Manarvi

15.00 - 15.30
COFFEE BREAK

15.30 - 18.00

ROOM A 15.30-18.00
DATA MANIPULATION AND APPLICATIONS
Chair: Joao Tavares, University of Porto, Porto, Portugal

MEDIATEC_10
Efficiency of Peer-to-Peer Overlays for Content Distribution
Gerhard Haßlinger, Halldór Matthías Sigurðsson, Úlfur Ron Halldórsson and Julian Schröder-Bernhardi **74**

MEDIATEC_11
Modelling Grouping Pressures for Emergent and Self-Organizing Visual Perception
J.C. Stevens, R. Dor, Th.M. Hupkens and L.J.M. Rothkrantz **79**

AUDIOTEC_01
Design and Realization of Smart Audio Systems
Zygmunt Ciota **89**

Thursday, 10th April 2008

APTEC_01
Energy Saving in Intelligent Buildings via Energy Harvesting in Wireless Sensor Networks
Lizzie Tang and Chris Guy **92**

APTEC_02
A Context Aware and User Tailored Multimodal Information Generation in a Multimodal HCI Framework
Siska Fitrianie, Iulia Tatomir and Leon J.M. Rothkrantz **95**

ROOM B - 15.30-17.00
CASE STUDIES
Chair: Manuel Feliz Teixeira, University of Porto, Porto, Portugal

FUBUTEC_02
Simulation Building Blocks for Business Engineering of Mobile Field Services
Tennov Simanjuntak, Yan Wang, Marijn Janssen and Alexander Verbraeck..... **123**

ECEC_02_02
Quality Management in the Design of the Construction
José Carvalho, Jean-Claude Mangin and Gérard Sauce **128**

ECEC_02_04
Definition of a Logistics Model in the Construction Industry – Case Study
Tiago Pinho, José Telhada and Maria Sameiro Carvalho **133**

20.00 – 22.30
FUBUTEC-ECEC-EUROMEDIA 2008 Conference Dinner

Tromba Rija Gaia
Avenida Diogo Leite, 102
2400 - 406 - Vila Nova de Gaia - Portugal
Tel.: +351 223 743 762
Fax: +351 223 743 763
Telemóvel: +351 968 603 750
e-mail:
reservasgaia@trombarija.com

Friday, 11th April 2008

HALLWAY

Registration

09.00 - 09.30

09.00 – 10.00

ROOM A - 09.00-10.00
D-TV-1
Chair: Hans Joachim Nern, T.TV.I, Dusseldorf, Germany

TV_01
Overcoming some Limits of our Information Behaviour - Choosing Rationally by Interactive Digital Broadcasting
Larry Steindler **139**

TV_02
Design of Non-Collision Broadband Wireless Channel for Delivering Multimedia Information
V.M. Vishnevsky, Tatiana Atanasova and Joachim Nern **142**

ROOM B - 09.00-10.00
CE IN THE CONSTRUCTION INDUSTRY
Chair: to be announced later

ECEC_10_01
Application of CE on the Supply Chain Management System of Construction Industry: A Case Study of Multinational Construction Company
Akhtar Ali and Irfan A Manarvi

ECEC_10_02
Implementation of Concurrent Engineering: A Case Study of Design & Development Group of International Turnkey Systems - Pakistan
Kamran Ahmed Malik and Irfan A Manarvi

10.00 – 10.30
COFFEE BREAK

Friday, 11th April 2008

10.30 - 12.30

ROOM A - 10.30-12.30
D-TV II
Chair: Hans Joachim Nern, T.TV.I, Dusseldorf, Germany

TV_03
CRM 2.0 - Service Delivery and Value Chain of an Interactive Media Platform
Wolfgang Rothe **146**

TV_04
Survey about running international IPTV Projects – Standards, Specifications and Future Directions
Jan Elsner **149**

TV_05
Semantic Television – a New Vision or a New Business Case Approach? Interactive Media Based Edutainment Realized as WEB 3.0 Environment
H Joachim Nern, Tatiana Atanasova and Georg Jesdinsky **153**

TV_06
Short overview about Portlet Technology for Realization of Interactive Broadcast Platforms
Axel Doussier **157**

TV_07
Digital Broadcast Environment using Web Service Technology - New Approaches for Fuzzy Content Detection and Service Distribution
H Joachim Nern, V.M. Vishnevsky and Tatiana Atanasova **159**

ROOM B - 10.30-12.00
LOGISTICS APPLICATIONS
Chair: Manuel Pina Marques, University of Porto, Porto, Portugal

ECEC_02_01
Assessment of Delivery Strategies by applying lexicographic Optimization and Design of Experiments: A Case Study
Herminia I. Calvete, Carmen Gale, Maria-Jose Oliveros, and Belen Sanchez-Valverde **103**

Friday, 11th April 2008

ECEC_02_03
A Linear Programming Model for the Storage Location Assignment Problem – A case Study
Carla Geraldes, Sameiro Carvalho and Guilherme Pereira **111**

ECEC_02_06
Using 3-D Simulation in an Industry Internal Logistic Process
Vik Pavel, Luís S. Dias, José A. Oliveira and Guilherme Pereira **116**

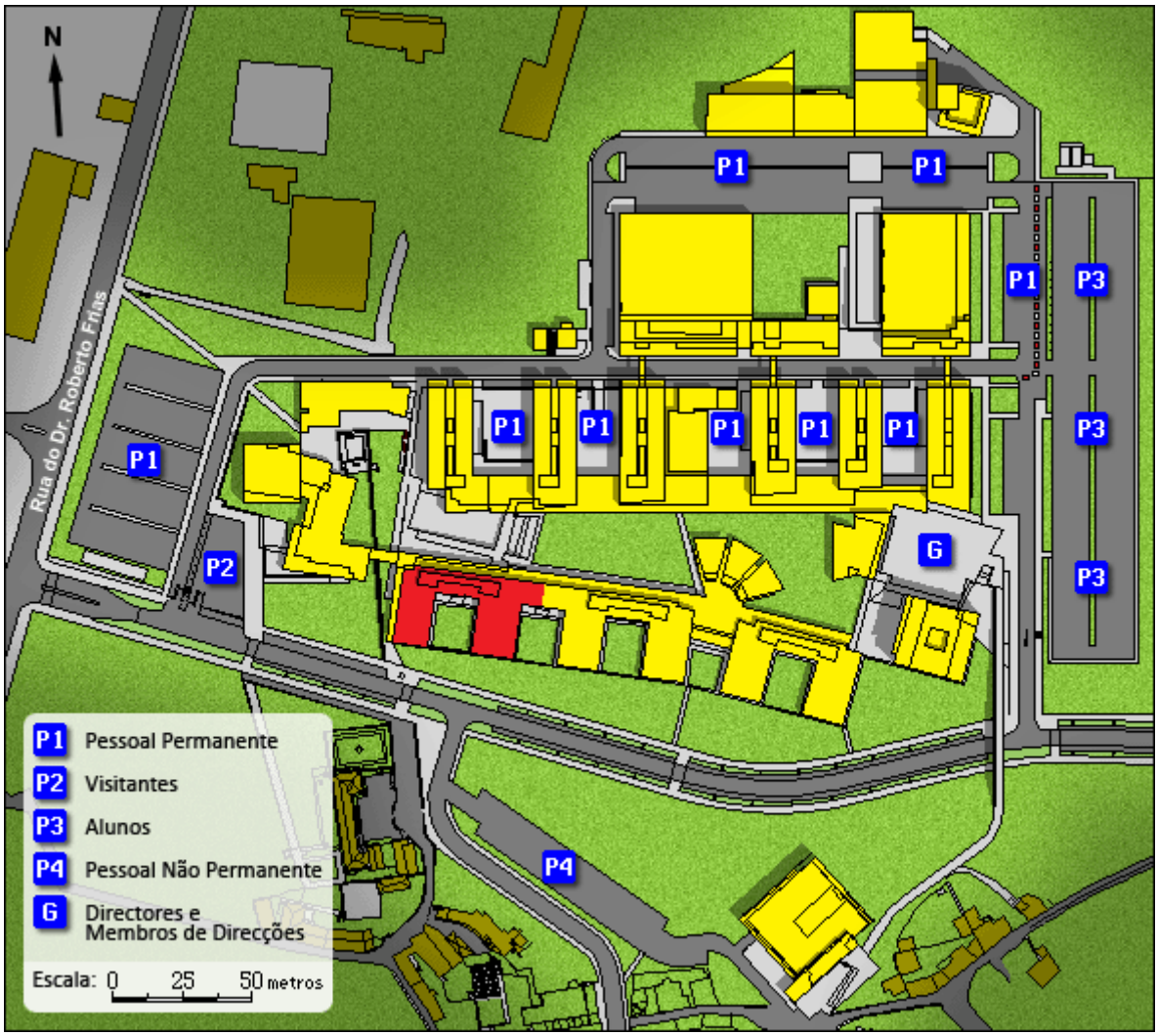
12.30 - 12.45

ROOM A 12.30 - 12.45
Closing Session and Best Paper Award
Chairs: Antonio Carvalho Brito, Joao Tavares and Manuel Feliz Teixeira

SEE YOU ALL NEXT YEAR AT FUBUTEC-ECEC-EUROMEDIA'2009 IN APRIL 2009

Most probable location PATRAS, Greece
(Confirmation to follow)

Conference Site Maps

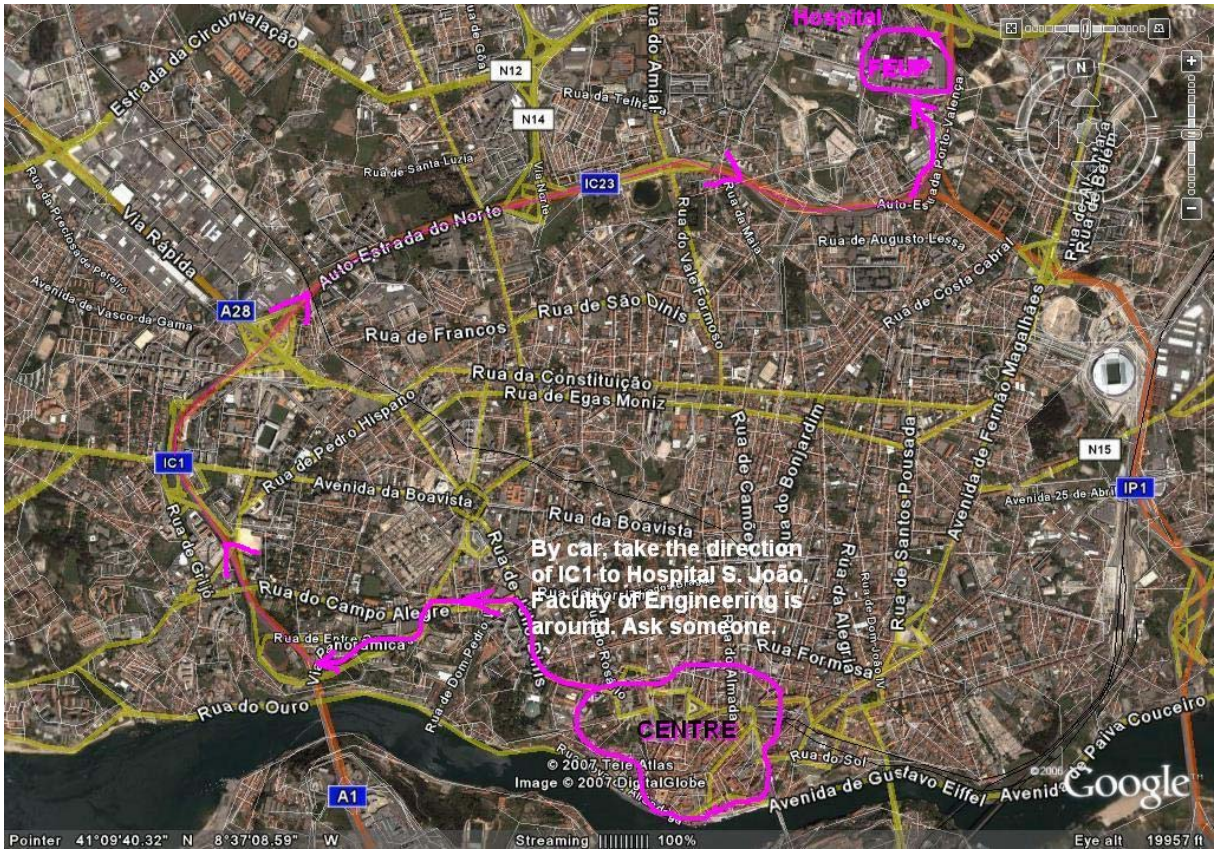


FEUP- University of Porto Campus

and Conference Location

Conference Site Maps

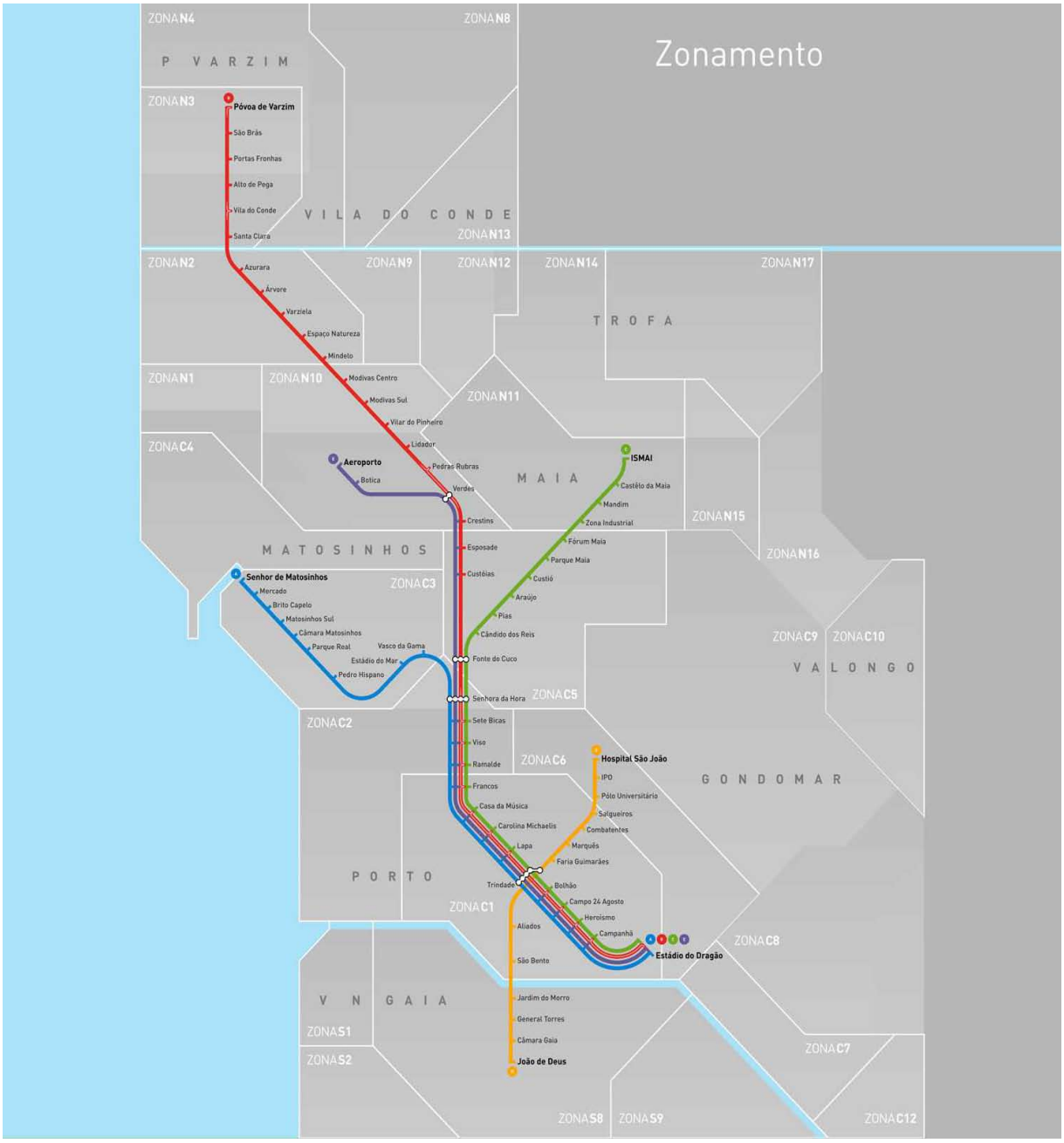
Conference Site Maps



How to reach the University by Car

And on the next page by metro

Conference Site Maps



Conference Site Maps

EUROSIS Info

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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Fax: +32.59.255339
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Please send me info on EUROSIS:
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Address: .....
.....
.....
Telephone .....
Fax: .....
Email: .....