▶ MESSAGE FROM EUROCON.CONFTELE 2011 GENERAL AND TPC CHAIRMEN

On behalf of the Organizing Committee, we would like to welcome all colleague participants at the EUROCON / ConfTele 2011 Lisbon, Portugal. Thanks to all authors (we have initially received over 450 papers with more than 1050 authors), to the 14 TPC Co-Chairs and the 317 reviewers, we have been able to organize a diversified but consistent technical program with a significant number papers on all main proposed topics. Since this year's edition of Eurocon is organized jointly with the Conftele, run in Portugal every other vear by Instituto de Telecomunicações since 1997, the topics with more papers are those common to previous Conftele's: Telecommunication and Multimedia Systems (119 papers), Circuits and Systems (77 papers), and Information Technologies and Intelligent Systems (21 papers). These 3 Topics are concentrated on the first two days. The Topic of Power Systems and Renewable Resources, marginal in previous Conftele's editions, is usually a strong topic on Eurocon. This year is not an exception (50 papers). Almost a full day (last day) is devoted to this important topic for today's Electrical and Computer Engineers. Finally, the other two topics are horizontal topics, with interest for all EEC community: Education (26 papers) and Engineering Management (8 papers). Additional to these high technical/scientific papers we have two keynote speakers at the opening session presenting topics of general interest to all community: Innovation & Entrepreneurship (University/Industry Role); and International Cooperation on the Information Society and Media (e-Infrastructure - EU approach) Closing the 3 days event we have organized a Panel discussion on Renewable Energies and Smart Grids.





Instituto de Telecomunicações/Instituto Superior Técnico Portugal



TPC CHAIR EUROCON.CONFTELE 2011 José Carlos Pedro

Instituto de Telecomunicações/Universidade de Aveiro Portugal

The IEEE Region 8 Student Paper Contest, organized by the IEEE Region 8 Committee, will be part of the program on the afternoon of the first day with the oral presentation of 5 selected papers. The winner will be announced at the Conference Banquet on Thursday April 28. A special social program was prepared, where the traditional Portuguese cuisine, with influences from East and West, and the Portuguese and world folk and classic music was not forgotten.

It was from Lisbon that in the XV century the Portuguese started the Discoveries Era to meet and exchange cultures and technology with other nations from all corners of the world namely Africa, western and eastern coast, Asia, from Gulf Area till Japan, and South America. Accordingly, in the XXI century, Lisbon constitutes a nice spot for experts in electro-technology and computers to share their experiences and know-how.

Having Lisbon and its surroundings as background - with a lot of monuments mainly from medieval (Romanesque and Gothic) till Baroque and modern periods and nice sceneries (small mountains and sea shore with nice sandy beaches and gorgeous cliffs - will help us make Eurocon 2011 a memorable meeting of highly skilled Electrical and Electronics Engineers.

All the organizing committee team and supporting institutions (IEEE Region 8 and Portugal Section, Instituto Superior Técnico and Instituto de Telecomunicações) hope all you enjoy the Conference.

WHO HAD NEVER
IN LISBON BEEN
HAD NEVER
A NICER R8 SPOT SEEN







ORGANIZATION AND TECHNICAL SPONSORS

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www.ist.utl.pt/en www.ist.utl.pt





INSTITUTO DE TELECOMUNICAÇÕES

www.it.pt



> CONFERENCE INFORMATION

REGISTRATION DESK

Registration desk is located on Level 01, and is open daily from 08:30h to 17:30h, to distribute the Conference materials to all registered participants, and also for on-site registration. Printed receipts can be obtained on demand. Additional social program tickets may also be purchased there.

INTERNET ROOM

Participants can ask for credentials to use Conference's Wi-Fi access for his own laptop computer. All conference area is covered.

SPEAKER'S PREPARATION

Speaker's preparation room is located on level 02 at room 02.3 (please, consult the Congress Centre plant). Before each oral session, all presenters MUST upload and test their presentation files in a dedicated computer placed at the speaker's preparation room (room 02.3). Presentations should be compatible for reading in Adobe Acrobat Reader or MS PPoint. An authorized assistant will later upload these files to the correspondent session room laptop computer, as presenters cannot connect and use their personal computers for presentation. Make sure to use compatible software and check for the appropriate video codecs, before starting your session.

POSTER SESSIONS

Poster boards are stand at the coffee break lobby, located in level 02. Poster boards are numbered. Look for the exact position of your poster in a list conveniently displayed for each session. Appropriate fixing items are available. Refrain from use your own fixing materials and specially do not use any type of tape. Make sure to display your poster soon enough before your session, and remove it just after the end of the session.





CONFERENCE LUNCHES

During conference days, complimentary buffet lunches, included in the registration fee, will be served to all participants. The lunches will be held at Level 00 of the Conference north side of the building (please, consult indicative signs). Please contact the Registration desk for special dietary requirements.

WELCOME RECEPTION

A Welcome Reception will be hosted by the Conference Board, on Wednesday, the 27th of April, at 19:00h. The Reception will take place at Level 00 lobby, near the Civil Engineering Museum area (please, consult indicative signs).

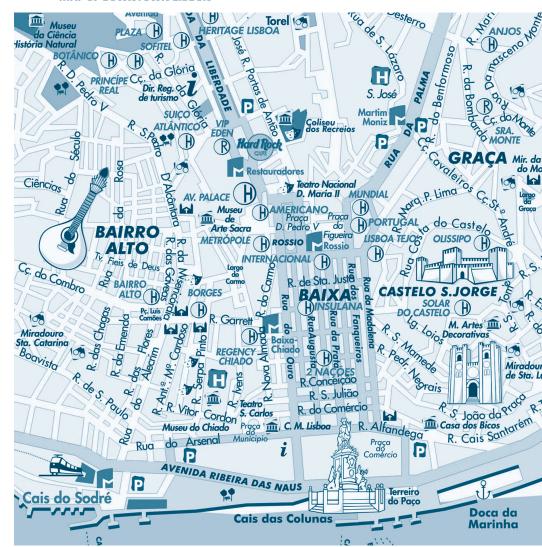
CONFERENCE BANQUET

The conference banquet will be held at "Quinta Pau da Bandeira" in a panoramic tent situated in the sanctuary of Cristo Rei (Almada) with breathtaking views over Lisbon and the Tagus River.

Buses will be provided to all the banquet participants, and will leave the IST Campus by 19h00. The banquet, a tasteful sample of Portuguese cuisine, will be preceded by a welcome drink outside the restaurant (if the weather conditions allow). After the banquet the Best Student Paper award ceremony will take place.

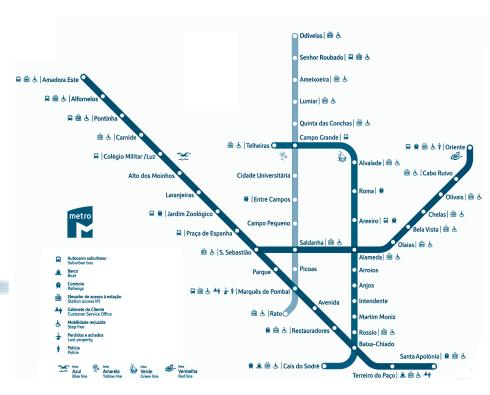
Banquet tickets (not included in the student/retired and accompanying person registrations) can be purchased (80 Euro) at the registration desk, subject to availability.

MAP OF DOWNTOWN LISBON



CONFERENCE INFORMATION

SUBWAY NETWORK MAP



Eurocon 2011 nearest subway stations



HOTEL AND DINNER ADRESSES

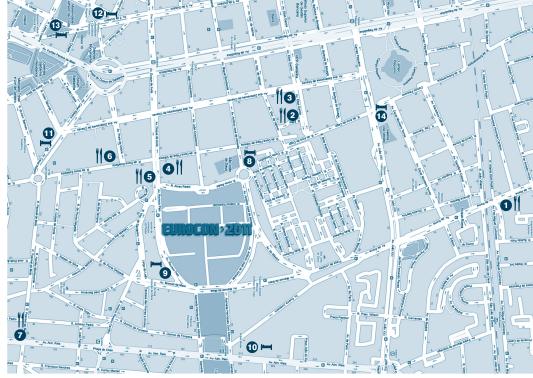
EUROCON 2011) INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

dinner restaurants

- 1 Dragão D'Ouro
- 2 Fogo de Chão
- 3 The Big Apple
- 4 Charrua do Lavrador
- **5** Costini
- 6 Osaka
- 7 Portugália

hotels

- 8 Holiday Inn
- 9 Turim Álameda
- 10 A.S. Lisboa
- 11 Ibis Lisboa Saldanha
- **12** Zeenit Lisboa
- 13 Sheraton Lisboa
- **14** Alif

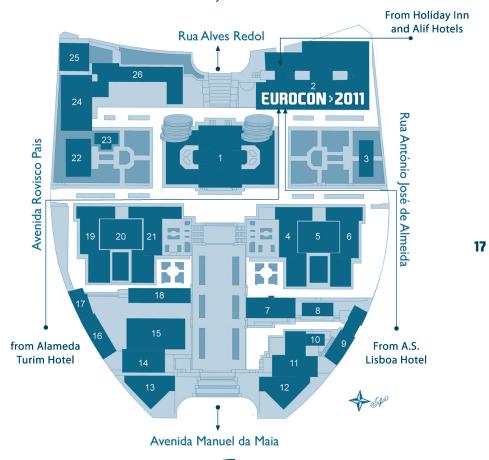


IST CAMPUS MAP

legend

- 1. Main building
- 2. Congress centre and civil engineering
- 3. North garden pavilion
- 4. Mechanical engineering I
- 5. North tower
- 6. Electrical engineering
- 7. Informatics II
- 8. Mechanical engineering IV
- 9. Informatics I
- 10. Informatics III
- 11. Mechanical engineering II
- 12. Mechanical engineering III
- 13. Canteen
- 14. IST student association
- 15. Sports courts
- 16. Swimming pool
- 17. Social assistance
- 18. IST Press
- 19. Mining engineering
- 20. South tower
- 21. Chemical engineering
- 22. South garden pavilion
- 23. Kindergarten
- 24. Mathematics
- 25. Physics
- 26. Multidisciplinary building







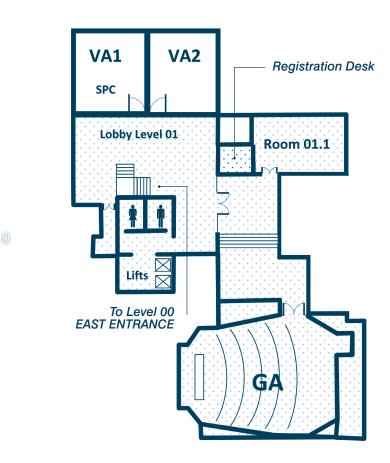
CONGRESS CENTRE LAYOUT

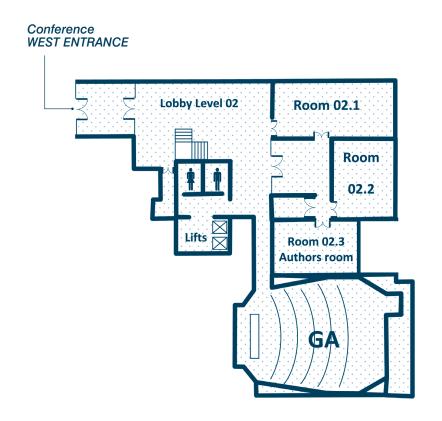
LEVEL 01

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LEVEL 02





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KEYNOTE SPEAKERS **AND PANEL SESSION**

KEYNOTE SPEAKERS PRESENTATION I

TBD

INNOVATION ENTREPRENEURSHIP UNIVERSITY INDUSTRY ROLE Wednesday, April 27 > 10h00

KEYNOTE SPEAKERS PRESENTATION II

MARIO CAMPOLARGO

BOOSTING THE DIGITAL AGENDA FOR EUROPE THE CONTRIBUTION OF FUTURE INTERNET

Wednesday, April 27 - 10h30



Mário Campolargo is the Director of the "Emerging Technologies and Infrastructures" Directorate of DG-INFSO in charge of Future and Emerging Technologies, ICT based infrastructures for science as well as ICT trust and security, experimental facilities and experimentally driven research for Future Internet.

Before joining the European Commission in 1990, he worked for 12 years in the R&D Center of Portugal Telecom as a researcher and manager.

Mário Campolargo has a Degree in Electrical Engineering by the University of Coimbra, a Master of Science in Computing Science by the Imperial College London, a Post graduate in Management by the Solvay Business School in Brussels and a European Studies Diploma by the Université Catholique de Louvainla-Neuve in Belgium."

PANEL SESSION CHAIR

ANTÓNIO VIDIGAL

RENEWABLE ENERGIES AND SMART GRID

Friday, April 29 > 16h30



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António Vidigal is the CEO at EDP Inovação (Electricidade de Portugal). António Vidigal has a Degree in Electrical Engineering by Instituto Superior Técnico, Portugal.



STUDENT PAPER CONTEST

EUROCON 2011) INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

> IEEE REGION 8 STUDENT PAPER CONTEST 2011

ROOM VA1

HISTORY AND TRADITION

History and Tradition of SPC IEEE Region 8 Student Paper Contest (SPC) is a traditional, long lasting activity in Region 8. It is an important student, but also academic and technical activity. R8 SPC 2011 finals are being organized in Lisbon, Portugal. Although written data are not available from the very beginning, it is known that history of SPC was a long one. It is also known that SPC was already in Portugal in 80's at the R8 MELECON Conference and that winner was a Portuguese team of students. Starting from 1999, existing SPC data could be found at IEEE Region 8 SAC/SPC page http://www.r8sac.org/index.php/spc.

MAIN GOALS OF SPC ACTIVITIES

SPC was and is an important IEEE topic in many aspects, just to mention some of them: (a) SPC is an excellent occasion for personal leadership and strong involvement of student members in a prospective IEEE scientific/technical activity; (b) SPC is a very good reason and chance for activating and keeping active Student Branches; (c) it makes possible further promotion of IEEE among students; (d) it is a nice possibility for IEEE members with non-student grades - the SPC Committee (Jury) members, their colleagues (associate reviewers), Student Branch Advisers, professors - student mentors and many others to be involved and to participate in such an important and interesting IEEE student activity.

SPC GENERAL ORGANIZATION

Once each year, each Student Branch may hold and organize a local Student Paper Contest under its own responsibility. The organization of local SPC generally means that contest should be announced publicly in advance and that all submitted papers are locally reviewed by qualified specialists. Student Branch Advisers should be fully involved in all local SPC activities, as well as all other local IEEE officers (Section Chairs, Chapter Chairs, student representatives in Sections Executive Committees,...).

The winner(s) of each local Student Branch Contest may compete for the Region 8 Contest, held within the Region limits. A Branch may submit one paper for every 100 branch members or part thereof, with a maximum of three papers. An international jury is grading the written papers without knowledge of the identity of the authors and of their schools, and is deciding which papers will be accepted for presentation at the R8 Oral finals.

SPC STUDENT PARTICIPANTS

Only IEEE student members (but not doctoral students) could be authors of a paper submitted for SPC. Each student author must be a member of an IEEE Student Branch at the time of the original submission of the paper to the local Branch Contest, and a member (student or not) of the IEEE at the time of the oral presentation. The work presented has to be completed before the student receives the engineering degree that entitles him/her to start preparing a doctoral thesis.

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Character of the Papers Paper should cover technical and engineering aspects of a subject reasonably within or related to the areas with which the IEEE is concerned with. The work need not be original in engineering content, but should be original in treatment and concise in coverage of the author's contribution to the subject. SPC 2011 was announced immediately after the end of the 2010 Contest.

The deadline for the 2011 IEEE Region 8 Student Paper Contest was December 15 2010. The oral finals will take place on April 27 2011, as the part of IEEE Region 8 International Conference EUROCON 2011, April 27-29 2011, Lisbon, Portugal. There were quite a number of various motivation and promotion activities within the SPC 2011 campaign. As the result, 32 papers were submitted, 29 accepted and graded, contestants were from 17 Sections and 22 Student Branches/Institutions.

The international Jury: Prof. George Paunovic, Serbia – Chair, Prof. Carlos Lopez-Barrio, Spain, Prof. Andrzej Pacut, Poland, Prof. Ali El-Mousa, Jordan, Prof. Manuel de Medeiros Silva, Portugal, was appointed to select five papers for the Oral finals and, after the Oral finals, to decide about the three winners.

After anonymous grading, Jury had selected five papers for the oral finals, from (alphabetic order) Karlsruhe Institute of Technology SB, Germany Section, Katholieke Universiteit Leuven SB, Benelux Section, National School of Engineers of Sfax (ENIS) SB, Tunisia Section, School of Electrical and

During the Oral finals, one of the authors of each finalists papers will make a short presentation of their/his paper, Jury and audience will put some questions, and Jury will decide about the three best papers and awards. All finalists papers will be included in EUROCON 2011 Proceedings, IEEE Explore base and will be posted to SPC Internet pages.

My best congratulations and thanks to all IEEE Region 8 SPC 2011 participants!

Prof. George Paunovic

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STUDENT PAPER CONTEST

IEEE Region 8 SPC Coordinator

PAPERS SELECTED FOR THE ORAL FINAL

SEMI-AUTOMATIC SOFT COLLABORATIVE ANNOTATION FOR SEMANTIC VIDEO INDEXING

Amel Ksibi, Nizar Elleuch, Anis Ben Ammar, Adel M. Alimi

RESOLVING THE CONNECTIVITY-THROUGHPUT TRADE-OFF IN RANDOM NETWORKS

Ralph Tanbourgi

CONCEPTUAL IMITATION LEARNING BASED 囵 ON FUNCTIONAL EFFECTS OF ACTION

Hossein Hajimirsadeghi

MOBILE DEVICE-BASED CELLULAR NETWORK 囼 COVERAGE ANALYSIS USING CROWD SOURCING

Jaymin D. Mankowitz, Andrew J. Paverd

DESIGN OF A Ka-BAND UPCONVERTER FOR SATELLITE COMMUNICATION

Shailesh Kulkarni

> TECHNICAL PROGRAM COMMITTEE

TECHNICAL PROGRAM COMMITTEE CHAIRMAN

chairman

José Carlos Pedro

EUROCON 2011 INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

Instituto de Telecomunicações, Universidade de Aveiro Portugal

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Manuel Castro Gil

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Nokia Siemens Networks

Portugal

Rami Talib Mushcab

Saudi Aramco Saudi Arabia

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Alberto Borghetti	Italy	Ana Arruarte	Spain	
Alberto Politi	United Kingdom	Ana M. Barbancho	Spain	
Alberto Tessarolo	Italy	Ana Pozo-Ruz	Spain	
Aleksandar Nikolic	Serbia	Ana Tomé	Portugal	
Alex Ruderman	Israel	Ana Vazquez Alejos	Spain	
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André Zúquete	Portugal	Athanasios Milidonis	Greece
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Antonio Ferrari	Portugal	Carlos Silva	Portugal
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Valery Vodovozov

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Sophia McNamarah	Jamaica	Vitor Cost
Sreela Sasi	United States	Vitor Fern
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Taichi Nakamura	Japan	Wajee Ch
Telmo Cunha	Portugal	Yang Son
T. Orlowska-Kowalska	Poland	Yu-mei Wa
Tetsuya Kawanishi	Japan	Yuri Alvare
Theodore Ganetsos	Greece	

name	country
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Vitor Costa	Portugal
Vitor Fernao Pires	Portugal
Vitor Malo Machado	Portugal
Vitor Tavares	Portugal
Wajee Chookittikul	Thailand
Yang Song	China
Yu-mei Wang	United States
Yuri Alvarez Lopez	Spain
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Rui Cruz, Portugal IEEE Portugal Section Chairman

Carlos Salema, *Portugal*Founder of Instituto de Telecomunicações and Conftele

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José Carlos Pedro, Portugal Instituto de Telecomunicações / Universidade de Aveiro

IEEE REGION 8 CONFERENCE COORDINATOR

Marian P. Kazmierkowski, 2009-10, Poland Carl James Debono, 2011, Malta

LOCAL ARRANGEMENTS

Beatriz Borges, *Portugal* Instituto de Telecomunicações / Instituto Superior Técnico

FINANCES

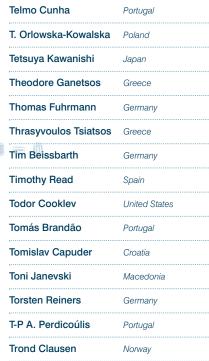
Custódio Peixeiro, *Portugal* Instituto de Telecomunicações / Instituto Superior Técnico

PUBLICATIONS

Pedro Santos, Portugal Instituto de Telecomunicações

WEB COORDINATOR

Pedro Silva, Portugal Instituto de Telecomunicações



Estonia

APRIL 27

OPENING SESSION 9h00-10h30 (Anf. GA) 9h00 Welcome Address by Organization Committee and Institutions General Chair: João Costa Freire IST: António Cruz Serra IT: Carlos Salema IEEE Region 8 Director: Marko Delimar IEEE Portugal Section: Rui Cruz 9h30-10h00 Keynote Speakers' Presentation I Innovation & Entrepreneurship: University/Industry Role 10h00-10h30 Keynote Speakers' Presentation II Mário Campolargo European Commission Information Society and Media GÉANT & e-Infrastructure 10h50 189. The use of conference articles as learning objects. Implementation in TAEE and EDUCON conferences under Free Air Cooling

TECHNICAL PROGRAM PLAN

> tel Telecommunication and Multimedia Systems

> cir Circuits and Systems

> eng Engineering Management

> pow Power Systems and Renewable Resources

> inf Information Technologies and Inteligent Systems

> edu Education

	TELECOMMUNICATION SERVICES	WE B2 > er	
	AND APPLICATIONS	ENGINEERING MANAGEMENT	
10h50- 12h30	(Anf. GA)	(Room 01.1)	
= (0)			

11h10 192. A Secure Wireless Point of Sale

11h30 391. Quality Model for Monitoring QoE

11h50 449. Mobile Location-Based Voice over

Internet Protocol Group Call Service

12h10 418. ArQoS®: System to monitor QoS/QoE

System

in VoIP

in VoIP Services

574. Prognostics-based Health Management for Telecom Equipment

274. Invisible Technology -

- Organisational Factor

312. An Integrated Model for the Environmental Impact Assessment of Highways in China

399. Solar Energy for Soil Conditioning

435. AIR: Technology Innovation for Future Spacecraft Onboard Computing Systems

WE B3 > inf COMPUTER NETWORKS (Room 02.2)	WE B4 > cir SIGNAL AND IMAGE PROCESSING I (Room 02.1)
166. Performance Comparison of CQ Selection Policies	277. Perceptually Driven Coefficients Pruning and Quantization for the H.264/AVC Standard
281. An Efficient Algorithm to Create a Loop Free Backup Routing Table	300. A Real Time HDTV Motion Estimation Architecture for the New MPDS Algorithm
529. Ant Colony Optimization Routing Mechanisms with Bandwidth Sensing	379. Stereo Image Coding using Dynamic Template-Matching Prediction
552. Simulating Connection Dropouts in Peer-to-Peer Environments	384. Enhanced H.264/AVC Video Streaming using Network-adaptive Multiple Description Coding
445. Optimizing Software Development Process	549. Computational Complexity Reduction Methods for Multiscale

Recurrent Pattern Algorithms

EUROCON 2011) INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

APRIL 27		WE C2 > tel		
13h50-15h30	WE C1 > tel. NEXT GENERATION NETWORKS I (Ant. GA)	MULTIMEDIA TECHNOLOGIES AND APPLICATIONS I (Room 01.1)		
13h50	114. A Comparative Study on Cost-benefit Analysis of Fiber-to-the-Home Telecommunications Systems in Europe	004. Reversible Visible Watermarking for H.264/AVC Encoded Video		
14h10 265. Estimating the Energy Consumption in Survivable Optical Transport Networks		075. Vision Based Surveillance System		
14h30	428. Planning a Urban Radio over Fibre Network	467. Enhanced Slicing for Robust Video Transmission		
14h50	459. CAPEX Model for PON Technology Using Single and Cascaded Splitter Schemes	289. Multimedia Content Aggregator applied to an IPTV Content-Zapping Service		
15h10	Invited Industry Application I	421. Semi-reliable Transport for IPTV over Mobile WiMAX		
16h20-18h00	WE DI NEXT GENERATION NETWORKS II (Ant. GA)	WE D2 MULTIMEDIA TECHNOLOGIES AND APPLICATIONS II (Room 01.1)		
16h20	540. Design and Construction of a Wireless Sensor and Actuator Network Gateway based on 6LoWPAN	294. Talking Avatar for Web-based Interfaces		
16h40	186. Multi-Band OFDM Networking Concepts	329. Efficient Big Brother Networks		
17h00	226. Performance of a Heterogeneous Network with UMTS, Wi-Fi and WiMAX	356. Efficient Scalable Coding of Video Summaries using Dynamic GOP Structures		
17h20	331. Cluster Cooperation for Energy Saving in Wireless Personal Networks	494. Browsing Videos by Automatically Detected Audio Events		
17h40	184. Optimal Routing in Multiple Carrier VoIP Networks	546. 3D Holoscopic Video Coding using MVC		
18.30	Departure for Reception			

WE CR > inf. INFORMATION SYSTEMS (Room 02.2)	WE C4 SIGNAL AND IMAGE PROCESSING II (Room 02.1)
338. Long-term Security of Digital Information - Assessment through Risk Management and Enterprise Architecture	496. Non-cyclic Deconvolution Using an Augmented Lagrangian Method
225. Order Dependent Feature Selection In Concatenative Sound Synthesis Using Analytical Hierarchy Process	408. Method for Segmentation of Cardiac Signals based on Four Parameter Sine Fitting
188. Complexity of Credential Processing	177. Efficient Unsupervised Feature Selection for Sparse Data
086. Towards the Initial Conceptual Database Model through the UML Metamodel Transformations	403. Recursive 2D Filters Designed in Pola Coordinates
291. Applying source code analysis techniques. A case study for a large mission-critical software system	264. Analysis of Error Correcting Codes for the Secure Storage of Biometric Templates
WE D3 > cir. MATERIALS AND ELECTRONIC DEVICES (Room 02.2)	WE D4 > cir SYSTEM IDENTIFICATION AND CONTROL (Room 02.1)
102. A Novel Approach In Recognizing Magnetic Material With Simplified Algorithm	090. Filtering approaches for online identification of GMS friction model
267. Organic photovoltaic cells with structured interfaces	168. Prognosis of gear health using Gaussian process model
305. Biocellulose Based Materials for Organic Field Effect Transistors	443. Digital LQR Control with Kalman Estimator for DC-DC Buck Converter
319. Electrical Properties of a Single Molecule	453. Mixed Virtual Reference Feedback Tuning - It ative Feedback Tuning Approach to the Position Control of a Laboratory Servo System
508. Industrial electrostatics perforation	171. Disturbance Compensation in Digital

improvement by power controled discharges Sliding Mode

APRIL 27

POSTER SESSION

Tracking System

14h50 -16h50 Lobby / Level 02

- **436.** Improving Domotic Services Combining a Dialog System and a Resident
- 450. Architecture and Traffic Modelling of a Utility Metering Wireless Sensor Network
- 487. Indoor/Outdoor Management System Compliant with Google Maps and Android® OS
- 386. Relieving Routing Loops through TTL Relaxation
- 432. Context-Based Connectivity in Wireless Mesh Networks: Analytical vs Simulation Studies
- **442.** A Platform for Operator-Driven Network Virtualization
- 474. FTP@VDTN A File Transfer Application for Vehicular Delay-Tolerant Networks
- 539. The Application of JADE and OSGi Technologies in the Telecommunications Services Architecture
- 469. Business Evaluation for FUTON-like Architectures
- **099.** Integration of SIP protocol in Android Media Framework
- 122. Open Access to Charging Functions in Multimedia Networks
- 123. Third Party Control On Instant Messaging
- 152. Automatic Convertion of Scientific Data in a Canonical Format

- 173. The Possibility of Application the Optical Wavelength Division Multiplexing Network for Streaming Multimedia Distribution
- **180.** Design and Implementation of Mouth-Controlled Mouse System
- 414. Best practices in iPhone programming
- **455.** Basic management strategies on KASKADA platform
- **548.** Assessing the integration of ontology tools in Content Network architectures

- 154. Value Distilled: A framework based approach to establish the trace of Technology Value in the context of Engineering Management
- 233. Value Creation in Portugal
- 276. A Secure Negotiable On-demand Services Model for Cloud Environment

- **561.** A spatiotemporal model of events within a BDI
- **162.** Aggregation of Non-Holonomic Wheeled Mobile Robots in an Attractant/ Repellent Environmental Profile
- 423. The HTP Tool: Monitoring, Detecting and Predicting Hypotensive Episodes in Critical Care

095. Disaster Recovery Planning & Methodology for Process Automation Systems

- **424.** A Survey on Data Security in Data Warehousing: Issues, Challenges and Opportunities
- 515. Risk Management, Open-Source Approach

- 241. A New Method in Medical Image Registration Based on Mutual Information and Landmark
- 139. An Enhanced Iterative Blind Deconvolution Algorithm
- 375. An improved edge profile based method for text detection in images of natural scenes.
- 385. Biometric Identification through Palm and Dorsal Hand Vein Patterns
- 390. A Real Time Global Motion Compensation For Multi-Exposure Imaging Algorithms
- **533.** Refractive Index Characterization of Waveguide Channels Using Spectroscopic Ellipsometry
- **501.** Fuzzy Logic Controller Support to Passengers' Comfort for Electric Train Coach Heating System
- **480.** Model based implementation of supervisors and diagnosers in VHDL code of programmable systems

MODELING SIMULATION

256. Bandwidth modeling and optimization

(Room 02.1)

of PIN photodiodes

INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

AF	PRIL 28		TECHNICAL PROGRAM PLAN	EUROCON 2011 > INTERNATIONAL CONFERENC
	08h30-10h10	TH A1 WIRELESS COMMUNICATIONS I (Ant. GA)	TH A2 > tel ANTENNAS (Room 01.1)	TH AB OPTICAL COMMUNICATIONS I (Room 02.2)
	08h30	203. Detection of Colliding Users in OFDM based Random Access Networks	495. Increasing the convergence rate of distributed beamforming	415. Raman Amplifier Undepleted Pump Model Customization to Include Pump-to- Pump Interactions
	08h50	214. Rotation Matrices for OFDM Transmission	150. Microstrip antenna for vehicular communications with improved axial ratio band	491. Optimizing the Nonlinear Operator in Backward Propagation
	09h10	481. Distributed beamforming in OFDM-based systems over frequency-selective channels	182. Compact Printed Monopole Anntenna Array for Dual-band WLAN Application	238. Optical Hard Limiter Impact on the Performance Analysis of an Optical OV-CDMA System
	09h30	521. Perfect DFT Sequences Transformed Into Orthogonal Sequences	378. Tapered Waveguide Feed for Integrated Dielectric Lens Antenna Performance Evaluation	420. Dual Band Signal Generation for Millimeter-wave RoF Systems with Subcarrier Multiplexing
	09h50	295. Correlation of Spreading Sequences Combined with Nonlinear OQPSK Signals	464. Modelling and Measurements of the Directional Spectra of Scatter Signals Inside a Formation of Tree Trunks	576. Photonic Instantaneous RF Frequency Measurement System based on Complementary Modulation
)	11h00-12h40	TH B1 > tel. WIRELESS COMMUNICATIONS II (Ant. GA)	TH B2 RADIO PROPAGATION I (Room 01.1)	TH BB > tel. OPTICAL COMMUNICATIONS II (Room 02.2)
	11h00	231. BER Performance of MIMO OFDM- CDMA System in Ricean Fading Channel	178. Design and Analysis of Frequency- Selective Surfaces for Ultrawideband Applications	307. Controlling the properties of Fiber Bragg Gratings based on the Acousto-Optic modulation
	11h20	320. The Second-order Statistics of One Ring MIMO Model and its Applications	250. Measurement of the Specific Absorption Rate Using a Single Electric Field Sensor	290. Impact of Collocated Regeneration and Differential Delay Compensation in Optical Transport Networks
	11h40	321. Application of LDPC Codes on the MIMO Channel Model Based on the Geometrical One-ring Scattering Model	454. Dispersion Diagrams of Waveguides Filled with Indefinite Media	493. Simplified Technique for the Design of Multichannel Dispersion Compensation FBG
	12h00	422. Maximizing Performance using MIMO Techniques for 4th Generation Mobile Communication Systems	461. Development and Performance Analysis of a Real Time High-Resolution Channel Sounder – IF Stage	511. Design, Development and Performance Analysis of DSSS-based Transceiver for VLC
	12h20	514. Performance Evaluation of Conventional and MMSE Multiuser	528. Analysis of dielectric optical ring slab waveguides with interband absorption	Invited Industry Application II

Detection Algorithms with Different

Spreading Signature Codes

ptimizing the Nonlinear Operator ward Propagation	103. Design of Low Cost PC-based Simulators for Education and Training Purpose Using DDS
ptical Hard Limiter Impact Performance Analysis of an Optical MA System	251. Advanced Time-Domain Techniques for Strongly Nonlinear RF Circuit Simulation
ual Band Signal Generation meter-wave RoF Systems bcarrier Multiplexing	372. A Geometric Approach of a Battery Mathematical Model for On-Line Energy Monitoring
notonic Instantaneous RF Frequency rement System based replementary Modulation	374. A Geometrical Point of View Over a Battery Mathematical Model
	TH B4 > cir.
AL COMMUNICATIONS II	ANALOG INTEGRATED CIRCUITS I
02.2)	(Room 02.1)
ontrolling the properties of Fiber	499. Application of Pulse-Width Modulated
Gratings based on the Acousto- nodulation	Pre-Emphasis in Closely-Spaced Transmission Lines with Additional Discontinuities
Gratings based on the Acousto-	Pre-Emphasis in Closely-Spaced Transmis-
Gratings based on the Acousto- nodulation Apact of Collocated Regeneration ferential Delay Compensation	Pre-Emphasis in Closely-Spaced Transmission Lines with Additional Discontinuities 530. A 130 nm CMOS LNA for 30 GHz
Gratings based on the Acousto- nodulation npact of Collocated Regeneration ferential Delay Compensation cal Transport Networks implified Technique Design of Multichannel Dispersion	Pre-Emphasis in Closely-Spaced Transmission Lines with Additional Discontinuities 530. A 130 nm CMOS LNA for 30 GHz Applications 567. A Linearity-Improved Ultra-Wideband

for Telemetry Systems

APRIL 28		TECHNICAL PROGRAM PLAN
13h50-15h30	TH C1 WIRELESS COMMUNICATIONS III (Ant. GA)	TH C2 RADIO PROPAGATION II (Room 01.1)
13h50	342. Design of a Battery-free Wireless Sensor Node	079. Simulation of Envelope-Phase Arbitrarily Distributed Fading Channels: a Versatile Method Based on the Metropolis Algorithm
14h10	475. Decision Making Based on Localized Auctions in Wireless Sensor Networks	563. Analysis of the dRET input parameters under varying wind conditions at 20 GHz
14h30	365. Facilities of Digital Modulation Techniques and Conversion Schemes in Underground Multiuser Systems	570. Experimental characterisation of WiMAX propagation in different environments
14h50	503. A Front-End to Vehicular Communications	159. Avegare Fade Duration for Dual Selection Diversity over Correlated Rician Fading Chan- nels in the Presence of Cochannel Interferences
15h10	354. Performance Evaluation of Energy Efficient Routing Protocols for Wireless Sensor Networks	161. Conical Refraction in Generalized Biaxial Media - A Geometric Algebra Approach
16h20-18h00	TH D1 > tel. WIRELESS COMMUNICATIONS IV (Anf. GA)	TH D2 MICROWAVE FILTERS AND QUANTUM EFFECTS IN INFORMATION AND TRANSMISSION (Room 01.1)
16h20	292. Realistic Mobility Modeling of Pedestrian Traffic in Wireless Networks	279. Critical Issues in Polarization Encoded Quantum Key Distribution Systems
16h40	299. ZigBee/GPS Tracking System for Rowing Races	426. Polarization-Entangled Photon Pairs Using Spontaneous Four-Wave Mixing in a Fiber Loop
17h00	388. Experimental Evaluation of IEEE 802.11e EDCA QoS Mechanism for Voice over WLAN	507. Simulation Performance of All-Optical Logic Gate XOR at 40 Gbit/s Using Quantum-Dot SOAs
17h20	506. QoS Control and Analysis for LTE Networks	263. Metamaterial Millimeter Wave Devices on Silicon Substrate: Band-Pass Filter and Directional Coupler
17h40	523. General Interference Analysis of M-QAM Transmission Applied to LTE Performance Evaluation	448. New Microstrip Bandpass Filter Configuration with Improved Attenuation of One Adjacent Channel

EUROCON 2011) INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

INSTRUMENTATION AND MEASUREMENT (Room 02.2)	ANALOG INTEGRATED CIRCUITS II (Room 02.1)		
572. A novel uniform eddy current probe with GMR for Non Destructive Testing Applications	456. Comaparision of Two Different Architectures of Multichannel Readout ASICs for Neurobiological Experiments		
314. Computer as a tool for controlling measurement of water content in building materials	239. Synthetic Inductor Based Resonator Using DVCCTA		
466. Textile moisture sensor matrix for monitoring of disabled and bed-rest patients	228. Improved Accuracy Thermal Nanostructure		
571. Portable Eddy Current NDT Instrument Using Two Different Implementations	244. Design Procedure for Settling Time Minimization in Three-Stage RNMC Amplifiers		
446. A new Monitoring and Data logger System for Industrial Cooling Equipment Applications	370. Implementation of a programmable neuron in 0.35 μ m CMOS process for muli-layer ANN applications		
Applications	тог тишнауег ямм аррисацонз		
TH DB > cir. EMBEDDED AND REAL TIME SYSTEMS (Room 02.2)			
TH DB > cir. EMBEDDED AND REAL TIME SYSTEMS	TH D4 DIGITAL INTEGRATED CIRCUITS (Room 02.1)		
TH D3 > cir. EMBEDDED AND REAL TIME SYSTEMS (Room 02.2) 315. Adaptability and Survivability in Spaceborne Time- and Space-Partitioned	TH D4 DIGITAL INTEGRATED CIRCUITS (Room 02.1) 164. Dual Time Delay Digital Tanlock Loop		
TH DB EMBEDDED AND REAL TIME SYSTEMS (Room 02.2) 315. Adaptability and Survivability in Spaceborne Time- and Space-Partitioned Systems 347. An Approach to Generating C Code	TH D4 DIGITAL INTEGRATED CIRCUITS (Room 02.1) 164. Dual Time Delay Digital Tanlock Loop with Improved Performance 431. Conversion of Two- to Four-Phase		
EMBEDDED AND REAL TIME SYSTEMS (Room 02.2) 315. Adaptability and Survivability in Spaceborne Time- and Space-Partitioned Systems 347. An Approach to Generating C Code with Proven LTL-based Properties 534. A Design of a General Purpose User	TH D4 DIGITAL INTEGRATED CIRCUITS (Room 02.1) 164. Dual Time Delay Digital Tanlock Loop with Improved Performance 431. Conversion of Two- to Four-Phase Delay-Insensitive Asynchronous Circuits 273. A Comparative Study of Nanowire Crossbar and MOSFET		

POSTER SESSION

09h30-11h30 Lobby / Level 02

179. Generalized Secure Hash Algorithm: SHA-X

266. Privacy and usability in SMS-based G2B/B2G m-Government

458. Design of Filters For Reliable and Secure Communications: Conditional Mean Estimation at the Eavesdropper

465. A Cryptanalytic Attack on a Class of Cryptographic Sequence Generators

111. WiMAX Wireless Broadband as Viable Alternative for European Operators?

213. Robust Channel Estimation for Broadband Satellite Communications

504. A Streaming Application for Vertical Handover Testing in Wireless Hybrid Access Networks

551. Experience-based Radio Access Technology Selection in Wireless Environment

163. Quantifying the Influence of Crosstalk-Crosstalk Beat Noise in Optical DPSK Systems

280. All-Optical Flip Flop Using Two Gain-Clamped RSOAs

308. Adaptive gain equalization on optical amplifiers based on the Acousto-Optic effect using a single Long Period Grating

392. GUI model for simulation of steady state Erbium dopped fiber amplifiers

400. Transmission Performance of 60 GHz Signals Generated by OSSB Upconversion

439. Performance Analysis of Ethernet Passive Optical Networks with High Load through a Hybrid Analytical/Simulated Model

463. Simulation of Digital Optical Receiver of Intensity Modulation and Direct Detection

471. Optical Signal to Noise Ratio Monitoring with Hi-Bi Fiber Bragg Grating

535. Reflected Light from the Fiber Fuse Propagation

536. Dispersion engineered high index contrast silica microfibers

524. SBS Induced Four-Wave Mixing in Ultra Dense WDM Systems

TH AM

348. A RC model for multiwalled carbon nanotubes as interconnects

473. VHDL Structural Model Visualization

107. A novel condition for Hamiltonicity; Constructing Hamilton circuits

158. Contributions on Sensitivity Analysis for the Analog Two-Port Networks in Non-sinusoidal Regime

H PM

14h50-16h50

POSTER SESSION
Lobby | Level 02

120. Photonic Band-Gap Surface with Electronically Reconfigurable Geometry

283. Parametric Study of the Loss Characteristics of PZT-Based MMIC Transmission Lines

377. Optimum Design of Microwave Oscillator using Hopfield Neural Network

397. Cable Parameters Identification for DSL Systems

476. Wideband Microstrip Patch Antenna Exploiting a New Ceramic Fractal Structure

575. 3x3 Multibeam Network for a Triangular Array of Three Radiating Elements

441. Statistical Characterization of a Single-Photon Source Based on Stimulated FWM in Optical Fibers

TH PM

221. Fully Differential Baseband Pulse Generator for IEEE 802 15 4a standard

240. Third Order Lowpass Butterworth Characteristic Realization Using DBTA

317. Settling time Optimization in Threestage Amplifiers with Reversed Nested Miller Compensation

419. A New Optimization Method for Yield Enhancement of the Electronic Circuits Based on Tolerance Design

497. High performance clock generation and distribution for a LTE transceiver synchronization

509. Contactless Battery Charger for Composite Humidity and Temperature Wireless Sensors

542. A 1.8V/5.2GHz WLAN CMOS RFIC Receiver

284. Automatic Meters Reading for Water Distribution Network in Talsi City

427. Application of Compensation Techniques in a dsPIC based Impedance Measuring System

489. A 5GHz LNA for a Radio Astronomy experiment

100. A Technique for Automatically Reprogramming an Embedded Linux System

513. The Identification System for Monitoring of Teaching Activities

553. High Availability in Controller Area Networks

522. Ethernet Communication Platform for synthesized devices in Xilinx FPGA

18h30

Bus Departure for the Gala Dinner



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APRII 29

APRIL 29				FR A4 > pow
08h30-10h10	POWER GENERATION (Ant. GA)	FR A2 > pow INDUCTION MOTOR DRIVES (Room 01.1)	POWER QUALITY APPLICATIONS (Room 02.2)	
08h30	131. Transient Stability and Voltage Regulation Improvement of Multimachine Power System	125. An Adaptive Sliding Mode Position Control for Induction Motor Drives	077. Phase-Locked Loop Topology Based on a Synchronous Reference Frame and Sliding Mode Approach for DVR Applications	205. A New Modulation Technique for Reduced Harmonic Distortion of Current in PV Inverters
08h50	141. Modelling and Control of SCIG applied to Variable Speed Wind-Energy Systems Connected to the Grid	313. MRAS sensorless based control of IM combining sliding-mode, SVPWM, and Luenberger observer	080. Dynamic Voltage Restorer Using a Multilevel Converter with a Novel Cell Structure	098. Computer Simulations of a Converter Control Malfunction on PMSG-Based Wind Turbines
09h10	210. Long-term Dynamic Modeling of Renewable Energy Sources	566. Application of Radial Basis Neural Networks for the Rotor Fault Detection of the Induction Motor	224. Fault-Tolerant Design for a Three-Level Neutral Point Clamped Multilevel Inverter Topology	298. Synchronization of a single-phase photovoltaic generator with the grid
09h30	323. A reduced model of Permanent Magnet Synchronous Generators for Wind Energy Conversion Systems	577. Performance Analysis of the Sensorless Induction Motor Drive System under Faulted Conditions	543. Combining Mechanical Commutators and Semiconductors in Fast Changing Redundant Inverter Topologies	336. Dual Input Hybrid DC-DC Converters
09h50	402. Cascade Disruption of Generation – Using Adversity for Learning & Improvement	579. Performance of a High-Power Induction Motor Supplied by Two In-Phase Voltage-Source Inverters	097. Automatic control system of a three-phase shunt active power filter using the method of "equivalent sinusoid"	335. Low Speed PM Generator for Direct-Drive Wind Applications
	FR B1 > pow			FR B4 > edu,
11h00-12h40	ENERGY TRANSMISSION AND DISTRIBUTION I (Anf. GA)	FR. B2 ELECTROMAGNETIC DRIVES I (Room 01.1)	FR B3 > edu, E LEARNING I (Room 02.2)	INNOVATIVE COURSES AND LABORATORIES I (Room 02.1)
11h00	245. New EEM/BEM Hybrid Method for Electric Field Calculation in Cable Terminations	541. Vibration Analisys of a Linear Switched Reluctance Actuator	132. Biometric Verification System in Moodle & the Analysis in Lab Exams	106. Reducing the entrance hurdle in Embedded System Engineering courses
11h20	286. Experimental Results of ELF Electric and Magnetic Fields of Electric Power System in Bosnia and Herzegovina	554. Modeling the Electric Chain of an Electric Boat	133. How to make attractive the teaching of relativistic electrodynamics?	525. Logic Emulators in Digital Systems Education
11h40	296. Skin Effect and Proximity Effect in a Real, High Voltage, Double Three-phase System	510. Robust Model Predictive Speed Control of the Drive System with an Elastic Joint	373. Implementing Content Packaging Standards	096. Remote Access Laboratory for Analog and Digital Electronic Course
12h00	215. On-Line Insulation Assessment of HV Cables Employing Novel PD Features and AdaBoost	368. Deep Bar Effects Produced by PWM Power Supplies in Induction Machines: Application to Rotor Parameters Determination	559. Online Technology CAD Laboratory for Microelectronics Education	346. MATLAB Simulation Applied to Study the Mechanism of Load Balancing by Unbalanced Capacitive Shunt Compensation in a Three-Phase Three-Wire Network
12h20	230. Fault Location in Three-Terminal Power Transmission Lines by TT-Transform	371. Sensor-Based Fixed-Point DSP Control of a 8/6 Switched Reluctance Motor	520. 3D Modeling Educational Environment	297. Formative assessment

47

TIVE COURSES BORATORIESI

mative assessment of laboratory work

Based Features

APRIL 29	FR C1 > pow.	
13h50-15h30	ENERGY TRANSMISSION AND DISTRIBUTION II (Anf. GA)	ELECTROMAGNETIC DRIVES II (Room 01.1)
13h50	204. Voltage regulation in low-voltage rural feeders with distributed PV systems	156. DC Motor Drive with high Torque at low Speed
14h10	349. Procedure for Determining the Response of the System Load to Voltage Sags. Part 2: The Analyzing Metodology	149. Analisys of the DFIG During Voltage Dips
14h30	353. Deregulated Environment Transmission Expansion Planning	518. Application of an adaptive fuzzy sliding-mode controller based on the 2 type fuzzy sets for the two-mass system
14h50	358. Comparison of Power System Tracing Cost Allocation Methods	413. Study Above an Adaptive Control Structure With Aplication at the Double-Fe Induction Generator's Excitation
15h10	359. Probabilistic and Deterministic Load Flows Methods in Power Systems Reliability Estimation	197. Real-time Efficiency Optimisation of Open-Loop Controlled Synchronous PM Motor Drive Using Adaptive Neural Networks

EUROCON 2011 : INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

LEARNING II	TORIES II
R C3 > edu	INNOVATIVE COURSES AND LABORA

(Room 02.2) (Room 02.1)

191. Assembler Through The Looking Glass: Understanding Digital Systems

Ε

169. Catch the Mark: teaching data hiding by gaming

212. Network Infrastructure for Academic IC CAD Environments

252. An improved way for evaluating competences. A different approach to project management learning.

382. Integrating Games from an External Provider in the PoEML E-learning Platform **306.** An Innovative Laboratory Course of Organic Electronics

502. Watching a Processor at Work- a selfexplanatory simulator and illustrator for the MC8 microprocessor

381. Experimentation with Optimization Problems in Algorithm Courses

485. The New Digital Media in Educating Computer Engineering Students for in-Company Communication

532. Structured analysis of alternative evaluation approaches of lab sessions in engineering education

CLOSING SESSION

16h30-18h00 (Anf. GA)

Pannel Discussion Renewable Energies and Smart Grid Chair: António Vidigal, CEO EDP Inovação 49

Presentation of EuroCon-2011 Next Venue General Chair: Mislav Grgic, University of Zagreb, Croacia

Closing Remarks General Chair: João Costa Freire

APRIL 29

FR AM > poster Session

09h30 -11h30 Lobby / Level 02

472. Analysis of a Monolithic Buck Converter's pMOS Switch During Turn Off

- 104. A model-based approach for a dimming high efficiency control/power LED driver
- 259. Discontinuous Space Vector Modulation Technique for Motor Supply
- 170. Direct Lightning Surge Analysis in Wind Turbines using Electromagnetic Transients Computer Program
- 569. 220 kV and 400 kV Power Plant Electromagnetic Pollution Analysis
- 172. Using high-power electromagnetic energy for careful sorbent regeneration
- 325. Calculation of Magnetic Field Intensity
- 505. Calculation of inductance of conductors for overhead power lines
- 337. Compact Fluorescent Lamps Electromagnetic Compatibility Measurements and Performance Evaluation
- 151. A Nonlinear Observer for Synchronous Generator Damper Currents
- 183. High Level Controller in the Electro-Mechanical Drive Train
- 326. Experimental Model of a Hydrogenerator with Static Excitation
- 564. Characterization of the Fringing Window of a Magnetic Core
- 581. On the Computation of Rotor Losses through a Set of Harmonic Finite Element Analyses in Fractional-Slot Concentrated-Coil Permanent-Magnet Machines

- 176. Applied Electronics Curriculum for Computer Science Students
- 249. Educational Thesaurus on Power Electronics
- 433. The Intuitive Approach to Engineering Design of a Multi-Cultural Group of Engineering Students
- 444. An Interdisciplinary Masters Program in Microwave Communication Focused on Innovation (Attracting and developing students' talent in challenging times)
- 268. The Possibilities of Implementation of M-Education in the Republic of Serbia
- 310. A motivational teaching-learning process based on the student's interest: high level of education

EUROCON 2011 : INTERNATIONAL CONFERENCE ON COMPUTER AS A TOOL

ABSTRACTS

EUROCON: 2011 conficient