

Um mar
sem fronteiras:
desafios tecnológicos

7º CONGRESSO
COMITÉ PORTUGUÊS DA URSI

22 de novembro de 2013, Lisboa

VENUE: FUNDAÇÃO PORTUGUESA DAS COMUNICAÇÕES (PORTUGUESE COMMUNICATIONS FOUNDATION), LISBON

PROGRAMME

09:00 REGISTRATION

09:30 OPENING SESSION

Fátima Barros | Chairman of the Management Board, ANACOM

Manuel Pinto de Abreu | Secretary of State of the Sea, Ministry of Agriculture and Sea

10:00 INTERVENTIONS

MODERATOR: João Confraria | Member of the Management Board, ANACOM

10:00 BLUE MASS MED PROJECT

Fonseca Ribeiro | Director-General, Direção Geral de Política do Mar (Directorate General for Marine Policy)

10:20 CHALLENGES AND OPPORTUNITIES THAT RESULT FROM THE EXTENSION OF THE CONTINENTAL SHELF

Aldino Santos de Campos | EMEPC - Estrutura de Missão para a Extensão da Plataforma Continental (Group for the Extension of the Continental Shelf)

10:40 HiTECH IN THE ECONOMY OF THE SEA

Fernando Ribeiro e Castro | General Swecrary , Fórum Empresarial da Economia do Mar (Business Forum for the Sea Economy).

11:00 COFFEE-BREAK

(POSTER SESSION AND PROJECT DEMONSTRATIONS)

11:30 PARALLEL SESSIONS

AUDITORIUM - PROJETOS PARA O MAR

MODERATOR: Paulo Mónica de Oliveira | Navy

11:30 CHALLENGES OF FLOATING OFFSHORE WIND POWER

António Vidigal | EDP Inovação

11:50 UNDERWATER MOBILE ROBOTICS

Victor Lobo | CINAV

12:10 WAVESYS FOR SEA

Mário Rui Santos | WAVECOM

12:30 E-NAVIGATION AND THE INTERNET OF (MARITIME) THINGS

Eduardo Bolas | Portuguese Committee of URSI

ESCOLA DO FUTURO - BEST STUDENT PAPER AWARD

MODERATOR: António Topa, IST

11:30 ANALYSIS OF THE IMPLEMENTATION OF LTE-ADVANCED IN A LOW EXPOSURE PERSPECTIVE

Dinis Rocha | IST, INOV-INESC

11:50 MIMO CHANNEL CAPACITY SPATIAL DISTRIBUTION IN A MICROCELL ENVIRONMENT

Ivo Sousa | IST, IT

12:10 ASSESSMENT OF WIND TURBINES GENERATORS INFLUENCE IN AERONAUTICAL RADARS

Ricardo Santos | IST, INOV-INESC

12:30 GEOLOCATION BASED ON MEASUREMENTS REPORTS FOR DEPLOYED UMTS WIRELESS NETWORKS

Tiago Pereirinha | IST

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13:00 LUNCH (ANACOM INVITATION)

14:00 PARALLEL SESSIONS (CONTINUED)

AUDITORIUM THE ROLE OF TELECOMMUNICATIONS: DEBATE WITH PORTUGUESE-SPEAKING COUNTRIES	ESCOLA DO FUTURO BEST STUDENT PAPER AWARD
<p>MODERATOR: Maria Emília Manso, IPFN</p> <p>ENGINEERING AND INNOVATION Carlos Loureiro Vice-President, Ordem dos Engenheiros (Order of Engineers)</p> <p>STRATEGY OF THE MERCHANT NAVY AS A DRIVER OF DEVELOPMENT Arlindo Zandamela INCM (Mozambique)</p> <p>Eddie Wu (video) Chairman, The Macau Institution of Engineers</p>	<p>MODERATOR: José Pedro Borrego, Portuguese Committee of URSI</p> <p>14:00 TRANSMITTED POWER FORMULATION FOR THE IMPLEMENTATION OF SPECTRUM AGGREGATION IN LTE-A OVER 800 MHz AND 2 GHz FREQUENCY BANDS Jessica Acevedo Universidade da Beira Interior</p> <p>14:20 OPTIMIZATION ALGORITHM FOR POSITIONING OF FIXED IN A CELLULAR NETWORK André Martins IST, IT</p> <p>14:40 PICOCELL POSITIONING IN AN LTE NETWORK Pedro Serra IST</p> <p>15:00 INTER-CELL INTERFERENCE IMPACT ON LTE PERFORMANCE IN URBAN SCENARIOS Diogo Xavier Almeida IST, INOV-INESC</p>

15:30 COFFEE-BREAK

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16:00 PARALLEL SESSIONS (CONTINUED)

AUDITORIUM SCIENTIFIC SESSIONS	ESCOLA DO FUTURO BEST STUDENT PAPER AWARD
<p>MODERATOR: Pedro Vieira, ISEL</p> <p>16:00 METAMATERIALS APPLIED TO ANTENNAS IN KA BAND SATELLITE COMMUNICATIONS Eduardo Lima IT, IST-UTL</p> <p>16:20 REVOLUTIONIZING STRUCTURAL BIOLOGY WITH THE WORLD'S FIRST X-RAY LASER Marta Fajardo IPFN</p> <p>16:40 ACQUISITION OF GALILEO GNSS SIGNAL REFLECTED ON RIVER TAGUS Tiago Peres DEIMOS Engenharia</p>	<p>MODERATOR: António Topa, IST</p> <p>16:00 MIMO models for smart on- and off-body communications Michal Mackowiak IST, INOV-INESC</p> <p>16:20 EXPERIMENTAL CHARACTERIZATION OF WEARABLE DEVICES FOR RF ENERGY HARVESTING IN WBANS Norberto Barroca Universidade da Beira Interior</p>

17:00 PRIZE-GIVING SESSION

Hélder Vasconcelos | Member of Management Board, ANACOM

- Best Student Paper Award 2013
- Award of ANACOM-URSI Portugal Prize 2013
- Presentation of the winning work of the ANACOM-URSI Portugal Prize 2013

Novel Multimodal PEM-UWB Approach for Breast Cancer Detection and Classification.

Raquel Cruz da Conceição | Faculdade de Ciências da Universidade de Lisboa

17:30 CLOSURE

Luísa Mendes | Chairman of the Portuguese Committee of URSI and Spectrum Management Director of ANACOM

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POSTER SESSIONS

ATRIUM, CASA DO FUTURO

POSTER SESSIONS

A PACKET RECEPTION MODEL FOR MAXIMUM RATIO COMBINING RECEIVERS WITH ADAPTIVE MODULATION AND CODING IN RAYLEIGH FADING CORRELATED CHANNELS

Ramiro Robles, IT Aveiro | Atílio Gameiro, IT Aveiro

ASSESSMENT OF WIND TURBINES GENERATORS INFLUENCE IN AERONAUTICAL NAVIGATION SYSTEMS

Joana de Albuquerque, IST | Luís M. Correia, IST, INOV-INESC | Carlos Alves, NAV Portugal | Luís Pissarro, NAV Portugal, Márcio Teixeira, NAV Portugal

BLOCK ACKNOWLEDGMENT MECHANISMS FOR THE OPTIMIZATION OF CHANNEL USE IN WIRELESS SENSOR NETWORKS

[This article was previously presented at the conference "24th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2013)"]

Norberto Barroca, IT- DEM, Universidade Beira Interior | Fernando Velez, IT- DEM, Universidade Beira Interior | Periklis Chatzimisios, CSSN Research Lab

COMPARISON OF THE DEPLOYMENT OF SINGLE AND MULTI-FREQUENCY DIGITAL TERRESTRIAL TELEVISION NETWORK

Tiago Martins, ISEL | Pedro Pinho, ISEL

COMPATIBILITY STUDY BETWEEN LTE MOBILE RADIO SYSTEM AND SYSTEM IN ADJACENT BANDS

Catarina Gomes, IST | António Rodrigues, IST | Miguel Capela, ANACOM

MANAGEMENT OF RESIDENTIAL ELECTRICAL ENERGY CONTROLLED BY ELECTRONIC RADIO DEVICES

Luis Gomes, Instituto Superior de Engenharia do Porto (Porto Superior Institute of Engineering), Knowledge Engineering and Decision Support Research Center, Polytechnic of Porto | ISEP, GECAD, Polytechnic of Porto | Marco Silva, ISEP, GECAD, Polytechnic of Porto | Filipe Fernandes, ISEP, GECAD, Polytechnic of Porto | Pedro Domingues, ISEP, GECAD, Polytechnic of Porto | Sérgio Ramos, ISEP, GECAD, Polytechnic of Porto | Zita Vale, ISEP, GECAD, Polytechnic of Porto

IMPACT OF SWITCHING LATENCY TIMES IN ENERGY CONSUMPTION OF IEEE 802.15.4 RADIO TRANSCEIVERS

Norberto Barroca, IT-DEM, Universidade da Beira Interior | Paulo Gouveia, IT-DEM, Universidade da Beira Interior | Fernando Velez, IT-DEM, Universidade da Beira Interior

INVESTIGATION INTO CORK SUBSTRATE PRINTED ANTENNAS FOR RFID APPLICATIONS

Roberto Magueta, IT Aveiro | Ricardo Gonçalves, IT Aveiro | Alcídia Duarte, IT Aveiro | Nuno Borges Carvalho, IT Aveiro | Pedro Pinho, ISEL

EARTH SATELLITE PROPAGATION MODELS AND SEPARATION OF CONTRIBUTIONS TO DEPOLARIZATION

Flávio Jorge, Armando Rocha

PROGRAMMED POINTING SYSTEM FOR ALPHASAT SATELLITE EXPERIMENTS

João Matos, Armando Rocha Paulo Pedreiras

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SPECTRUM OPPORTUNITIES FOR ELECTROMAGNETIC ENERGY HARVESTING FROM 350 MHz TO 3 GHz

(This article was previously presented at the "7th International Symposium on Medical Information and Communication Technology (ISMICT 2013)" on 8 March 8 2013 and is available at <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6521714>)

Jorge Tavares, IT-DEM | Jorge Tavares, IT-DEM | Norberto Barroca, IT-DEM, Henrique Saraiva, IT-DEM | Luís Borges, IT-DEM | Fernando Velez, IT-DEM | Caroline Loss, Universidade da Beira Interior | Rita Salvado Universidade da Beira Interior | Pedro Pinho, ISEL | Ricardo Gonçalves, Universidade de Aveiro | Nuno Borges Carvalho Universidade de Aveiro