

Third International Conference on IT REVOLUTIONS 2011
23-25 March 2011
Córdoba, Spain

Venue: Rectorado of the University of Cordoba (Medina Azahara Av.)

FINAL PROGRAM

Wednesday, 23rd of March

17:30h Registration

18:30h Opening Session

- Rector of the University of Cordoba (Spain).
 - o Prof. Dr. José Manuel Roldán
- Vice Rector of Infrastructure and Campus. University of Cordoba
 - o Prof. Dra. Pilar Dorado
- IT Revolutions 2011. General Chair.
 - o Prof. Dr. Francisco J. Bellido
- Dean of the Higher Engineering School of Cordoba.
 - o Prof. Dr. Francisco J. Vázquez
- Head of Computational Instrumentation & Industrial Electronics Group
 - o Prof. Dr. Antonio Moreno

19:30h Welcome cocktail

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Thursday, 24th of March

9:30h Registration

10:00h – 11:00h Plenary Session

Keynote Speaker: Prof. Dr. Horst Schwetlick (HTW Berlin)

“Sensor Networks in Sports, wellness and Medicine”

11:00h – 11:30h Coffe Break

11:30h – 13:30h Paralell Sesions: **Track 1. eGreen Energy & Track 2 Smart Buildings**

Track 1. eGreen Energy

- Power quality analysis using higher-order statistical estimators: characterization of electrical sags and swells.
- Intelligent techniques for identification of zones with similar wind patterns.
- HOS-based Virtual Instrument for Power Quality Assessment.
- Viability of the systems CFD in the study of the forces that act on a drop inside of a fluid.
- Virtual Instrumentation Applied to Electromagnetic Compatibility Testing.

Track 2 Smart Buildings

- Towards a normalized reference system in building construction planning for automated quantitative assessment and optimization of energy and cost efficiency.
- Evaluation of a New Proposal for Efficient Multicast Transmission in HomePlug AV Based In-Home Networks.
- Routing Protocols For 6LoWPAN.
- Upgrading of Traditional Electric Meter Into Wireless Electric Meter Using ZigBee Technology.

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13:45h – 15:30h Break lunch

15:30h – 17:00h Paralell Sessions: Track 4. Smart Enviroments & Track 6. Grid and Cloud Computing

Track 4. Smart Enviroments

- Support for Visually Impaired through Mobile and NFC Technology
- Indoor Position System based on BitCloud Stack for Ambient Living and Smart Buildings
- Evolving Presentity-Based Context Schemas by Estimating Context Proximity

Track 6. Grid and Cloud Computing

- Improved Mismatch of SIFT based on Second-order Gaussian
- Distributed Context Spaces - basis of a social semantic P2P system
- Many-core Processor Bioinformatics and Next-Generation Sequencing

17:00h Coffee Break

20:30h Gala Dinner. Rest. ["Bodegas Campos"](#)

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Friday, 25th of March

10:00h – 11:00h Plenary Session

Keynote Speaker: Prof. Dr. Juan Carlos Gómez

(National University of Rio Cuarto, Argentina)

"Impact of Distributed Generation on Distribution System Protection Schemes".

11:00h – 11:30h Coffe Break

11:30h – 13:30h Plenary Session. **Track 3. eHealth and AAL & Track 7. eLearning**

- Convolution Computation in FPGA based on Carry-Save Adders and Circular
- A Process of Ill-Structured Problem Solving Supported by Ontology and Software Tools.
- Buffers A standard-based Body Sensor Network system proposal
- RFID Multi-Target Tracking Using the Probability Hypothesis Density Algorithm for a Health Care Application

13:30h – 15:30h Break Lunch

15:30h – 17:00h Plenary Session. **Track 7. eLearning**

- SimARQ, an Automatic Repeat Request Simulator for Teaching Purposes
- Learning Science in an Intuitive and Fun Way Using Multi-touch Technology
- An e-tool for assessing undergraduate students? learning of surveying concepts and practices

17:00h – 17:30h Closing Session

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