

# IBEMOB'22 PROGRAM

## 1st Iberoamerican Workshop on Electromobility

**TUESDAY, 5<sup>TH</sup> APRIL 2022, 17:00 – 20:00 (UTC+1)**

**17:00-17:15**

**PRESENTATION OF CONGRESS**

**17:15-18:15**

### LECTURES

**17:15 – 17:35**

“Verificación de la bidireccionalidad en un convertidor CD-CD tipo DDBC”

Juan M. Ramírez, Francisco J. Arizaga-Ayala, Julio C. Rosas-Caro.

**17:35 – 17:55**

“Estudio de un convertidor CA-CA tipo directo”

Juan M. Ramírez, Diego Gutiérrez-Torres, José M Lozano-García, Luis Merchan-Villalba.

**17:55 – 18:15**

“Control de convertidor boost interleaved para sistemas de almacenamiento híbrido en VE”

Maximiliano Asensio, Juan Carlos Astrada, Federico Martin Serra, Cristian Hernán De Angelo.

**18:15-18:30**

**BREAK**

**18:30-19:30**

### LECTURES

**18:30 – 18:50**

“Hybrid Fuel Cell-Battery-Supercapacitor Energy Management System controlled by sliding modes”

Héctor Gerardo Chiacchiarini, Ezequiel Orozco.

**18:50 – 19:10**

“Multiphysics simulation of powerpack composed with LiFePO<sub>4</sub> commercial cylindrical battery cell “

Pedro Muñoz, Gabriel Correa Perelmuter.

**19:10 – 19:30**

“Segunda Vida de Celdas de LiFePO<sub>4</sub> Provenientes de un Vehículo Eléctrico”

Juan Carriquiry, Mario Vignolo, Federico Arismendi

**WEDNESDAY, 6<sup>TH</sup> APRIL 2022, 17:00 – 20:00**

**17:00-18:00**

### **LECTURES**

**17:00 – 17:20**

“Estudio de un Cargador Inalámbrico SAE J-2954 ante Desalineamientos”  
Juan Carlos Quiros Gil, Alicia Triviño Cabrera, Jose M. Gonzalez-Gonzalez

**17:20 – 17:40**

“Sistema de transmisión inalámbrica simultánea de potencia y datos”  
Inmaculada Casaucao, Alicia Triviño.

**17:40 – 18:00**

“Evaluating the determinants in the adoption of electric mobility”  
Patricia Baptista, Catarina Rolim, Alicia Triviño.

**18:00-19:00**

### **LECTURE “As time goes by”**

#### **Abstract:**

Tools and technologies have never been so powerful and, yet, so many people are unable to cope with their tasks and are always behind schedule. To-do lists and agendas ‘follow’ us everywhere, in all sorts of cloud-enabled devices, but never before so many tasks were abandoned and so many deadlines failed. Software, videos, courses and books on time management are everywhere but, somehow, they are ineffective. The reason is that what most people know about time management is, simply put, wrong. This talk addresses time management from innovative, evolutionary, and refreshing perspectives, weighing all its angles and touching all its nuts and bolts. It covers not only insights from successful, well-known personalities, but also approaches and techniques fine-tuned by the speaker during his 36-year-long career. If you need to know more about time management, this talk is definitely for you! And if you think you don’t, it’s equally so!

#### **About the speaker:**

Fernando Boavida is Full Professor at the Department of Informatics Engineering (DEI) of the Faculty of Sciences and Technology of the University of Coimbra. He was one of the founders of the Laboratory of Communications and Telematics (LCT) of DEI, the Strategic Director for Communications and Information Technology of the University of Coimbra from October 2003 to December 2015, the Director of the Department of Informatics Engineering from February 2004 to January 2008, and the Director of the Centre for Informatics and Systems of the University of Coimbra (<http://cisuc.uc.pt>) from October 2013 to September 2015.

His main research interests are people-centric Internet of Things, wireless sensor networks, and cryptography. He authored more than two hundred international publications (books, book chapters, refereed journals and conference proceedings) and fifty national publications. He was chairman of the Program Committee of QofIS’2001, IDMS-PROMS’2002, NETWORKING 2006, WWIC 2007, FMN 2008, EWSN 2010, FMN 2012, IWQoS 2012, ACM SIGCOMM FhMN 2013, Mobiquitous 2015, and WoWMoM 2016 international conferences/workshops. He is the author of four textbooks in Portuguese widely used as course books in universities and polytechnic schools of Portuguese-speaking countries, in the areas of computer networks engineering, computer networks administration, TCP/IP networking, and wireless sensor networks. Collectively, these books sold more than 25,000 copies since the year 2000. He is a senior member of the IEEE and a licensed Professional Engineer. He is a member of the Editorial Advisory Board of the Computer Communications journal.

His web page is at <http://www.uc.pt/go/boavida>

19:00-20:00

## LECTURES

**19:00 – 19:20**

“Modulación PWM basada en máquinas de estado finito aplicada a STATCOM”

César Contreras, Alicia Triviño, José A. Aguado.

**19:20 – 19:40**

“Estrategia de detección y localización de fallas en sensor de velocidad y llaves del inversor para accionamientos eléctricos de tracción”

Luis Esteban Venghi, Facundo Aguilera, Pablo de la Barrera, Cristian H. De Angelo.

**19:40 – 20:00**

“Diseño de una micro-red eléctrica universitaria de investigación”

Norberto García, Alicia Triviño, Inmaculada Casaucao, Carlos Alberto López.