CETC 2016 Tentative Program

The CETC2016 sessions will be held on Edifício Ferreira Cardoso, also known as building C at the ISEL campus

6th December

8:00	PARTICIPANT REGISTRATION (3rd floor of building Ferreira Cardoso)	
9:00 – 9:30	Opening Session (Auditorium C)	
9:30 –10:30	**Invited Talk 1**	
10:30 – 11:00	**Coffee Break** (Mediateca)	
11:00 – 12:20	**Oral Session 1A** *Robotics & Control Systems* (Auditorium C)	**Oral Session 1B** *Semiconductors* (Room C3.15)
12:20 – 14:00	**Poster Session 1 + Buffet Lunch** (Mediateca)	
14:00 – 16:00	**Invited Talk 2** **Invited Talk 3**	
16:00 – 16:30	**Coffee Break** (Mediateca)	
16:30 – 18:10	**Oral Session 2A** *Biomedical Applications* (Room C3.15)	**Oral Session 2B** *Semiconductors* (Auditorium C)

7th December

9:30 – 10:30	**Invited Talk 4**	
10:30 – 11:00	**Coffee Break** (Mediateca)	
11:00 – 12:20	**Oral Session 3** **Computing & Processing** (Room C3.15)	**Discussion Panel** **Startup Companies** (Auditorium C)
12:20 – 14:00	**Poster Session 2 + Buffet Lunch** (Mediateca)	
14:00 – 16:00	**Invited Talk 5** **Invited Talk 6**	
16:00 – 16:30	**Coffee Break** (Mediateca)	
16:30 – 17:50	**Oral Session 4A** *Multimedia Systems & Applications* (Room C3.15)	**Oral Session 4B** *Communications, Networking & Broadcasting* (Auditorium C)
17:50 – 18:00	*Closing Session* (Auditorium C)	

Oral Sessions

Oral Session 1A
Robotics & Control Systems
6th December, 11:00 – 12:20
Auditorium C

Isaías Gomes, Hugo Pousinho, Rui Melício and Victor Mendes
Short-Term Trading for a Wind-Pv Power Producer in an Electricity Market

Rui Laia, Hugo Pousinho, Rui Melício and Victor Mendes
Wind-Thermal Production in Day-Ahead Market

Bruno Pinto, Rui Melício and Victor Mendes
Simulation of Malfunctions in a Wind System Powered by a DFIG

Sofia Lopes and Fernando Fontes
Optimal Control of a Multi-field Irrigation Problem: validation of a numerical solution by the optimality conditions

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Oral Session 1B
Semiconductors
6th December, 11:00 – 12:20
Room C3.15

Luis Mateus, Manuel Vieira, Manuela Vieira, Paula Louro and Pedro Vieira
Instituto Superior de Engenharia de Lisboa
Indoor positioning system using a-SiC:H a WDM device

Elena Baikova, Stanimir Valtchev, Rui Melício and Victor Pires
Electromagnetic Emissions from Wireless Power Transfer System

Paulo Lourenço, Alessandro Fantoni and Pedro Pinho
Simulation of Amorphous Silicon Waveguides

Miguel Fernandes, Yuri Vygranenko, Manuela Vieira, Guilherme Lavareda, Carlos Nunes de Carvalho and Ana Amaral
Automated reactive thermal evaporation system for transparent conductive coatings

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Oral Session 2A
Biomedical Applications
6th December, 16:30 – 18:10
Room C3.15

Vera Geraldes, Marc-Antoine Custaud, Stephane Bastier, Anne Pavy Le-Traon, Liana Shvachiy, Mafalda Carvalho and Isabel Rocha
Readability of physiologic data and detection of specific activity using TEMIS system

José Domingues, Susana Silva, Rui Bernardes and António Morgado
Benchtop SS-OCT – layout and performance evaluation

Liana Shvachiy, Vera Geraldes, Mafalda Carvalho and Isabel Rocha
Autonomic Function Evaluation in an Intermittent Lead Exposure Animal Model

Alberto Escalda, Mafalda Carvalho and Isabel Rocha
A Novel Physiological Application of an Extracorporeal Circulation System: Hepatic Arterial Circulation during Hypothermia

Oral Session 2B
Semiconductors
6th December, 16:30 – 18:10
Auditorium C

Mauro Nascimento, Victor Mendes, Rui Melício and Mafalda Seixas
Power Quality Evaluation of a Photovoltaic System on an Electric Grid

Luis Romba, Stanimir Valtchev and Rui Melicio
Electric Vehicle Battery Charger: Wireless Power Transfer System Controled by Magnetic Core Reactor

Ruben Anjos, Rui Melício and Victor Mendes
Simulation of the Effect of Shading on Monocystalline Solar Module Technology under Hot Spot Condition

Luís Brito, Paula Louro, João Costa and Manuela Vieira
Visible Light Communication for indoors navigation with a-SiC:H photodetectors

Oral Session 3
Computing & Processing
7th December, 11:00 – 12:20
Room C3.15

Edgar Abreu, Paulo Canhoto, Victor Prior and Rui Melício
Assessment of PV Systems Performance in the Madeira Island Using Typical Meteorological Year Data

Gonçalo Ferreira
Improving Monte Carlo Go

Tiago Oliveira, André Ramanlal, Tiago Dias and Pedro Sampaio
PDS16inEcplise - An Eclipse Plugin for the PDS16 Assembly Language

Miguel Nunes, Artur Ferreira and Nuno Leite
Examination Timetabling Automation using Hybrid Metaheuristics

Discussion Panel
Startup Companies
7th December, 11:00 – 12:20
Auditorium C

Oral Session 4A
Multimedia Systems & Applications
7th December, 16:30 – 18:10
Room C3.15

Gonçalo Marques and Thibault Langlois
Acoustic Scene Classification

Carlos Almeida, Joel Paulo and Miguel Félix
Localização de Sons em Cidade utilizando o Conceito Ambisonic

André Miranda, Lino Pereira and Paulo Marques
Object Detection System for Blind Users

Rafael Santos, Arnaldo Abrantes and Pedro Jorge
Eye Gaze Tracking System For Adapted Human-Computer Interface

Oral Session 4B
Communications, Networking & Broadcasting
7th December, 16:30 – 18:10
Auditorium C

Paulo Marques
A Low Cost Phase Correction Technique for Passive Radar

João Cunha, Carlos Cardeira, Nelson Batista and Rui Melício
Traffic Light Using Multiple Wireless Technologies

Marco Sousa, André Martins and Pedro Vieira
Self-Optimization of Low Coverage and High Interference in Real 3G/4G Radio Access Networks

João Oliveira, João Soares, André Lourenço and Rui Duarte
Intelligent Sensors for Real-Time Hazard Detection and Visual Indication on Highways

Poster Sessions

José Rocha, Ana Gonçalves and Tiago Peres
Modular DC-DC Buck Converter For Education: from design to experimental results

Diogo Parracho, Ângelo Fernandes and Pedro Vieira
Planning of a radio signal network for Internet of Things using SIGFOX technology

Thiago Sapia and Cristiano Akamine
Channel estimation evaluation in an ISDB-T system using GNU Radio

Pejman Abdollahzadeh Karegar and Ramin Shaghaghi Kandovan
Wireless Sensor Network Fingerprinting Localization Using Affinity Propagation Technique

Cátia Rato, João Sabino, Luis Gurriana, Luís Seabra, Agostinho Gomes, Guiomar Evans, José Soares Augusto and Amélia Maio
The Interface and Control System of the Upgraded HVOpto/HVRemote Card of the TileCal

Ricardo Leitao, Tiago Dias and Artur Ferreira
Fingerprint Recognition System With Hardware Acceleration

Nuno Boa-Alma and Carlos Serra
Bluetooth Adapter for OBD-II Systems

João Ferreira and Henrique Silva
Personalization of Public Transportation Information

Poster Session 2
7th December, 12:20 – 14:00

Jefferson Almeida, Cristiano Akamine and Paulo Lopes
An implementation on GNURadio of a new model to ISDB-Tb using FBMC

Alberto Escalda, Vera Geraldes, Vitor Silva and Isabel Rocha
Imaging Evaluation of Physiological Effects during Normothermia, Hypothermia and Reheating

Yuri Vygranenko, Miguel Fernandes and Manuela Vieira
A Flexible Amorphous Silicon Photovoltaic Module for Portable Electronics

Isabel Rodrigues, Manuel Vieira, Paula Louro and Manuela Vieira
Opto-electrical model as an assisting tool to design WDM devices in the UV/VIS/NIR

Nuno Pereira, Rui Melício and Victor Mendes
Simulation of Regimes of Charge/Discharge in Batteries of Lead-Acid or of Lithium-Ion

Ahmed Amine El Ouchdi
Effect of the Temperature on the Electronic Transport in Ga0.5In0.5Sb Material Using the Monte Carlo Method

João Frazão
Optics in Data Processing and Data Transmission

Amine Mohammed Taberkit and Ahlam Guen-Bouazza
Simulation of strained-Si/Strained-SiGe dual channel Heterostructure P-MOSFETs