

Computer Systems
Energy Systems
Telecommunications
Robotics, Control and Artificial Intelligence

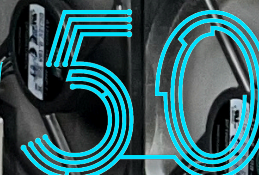
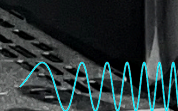
CoDEEC 2022 SE

2nd Conference of the Electrical and Computer
Engineering Department - Summer 2022

<http://www.deec.uc.pt/CODEEC2022SE>

June 15, 2022

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2022

2:30pm - Opening

Prof. Rui Cortesão
Prof. Paulo Menezes
Prof. Lino Marques
Prof. Gabriel Falcão
Welcome to CoDEEC

Doutor João Quintas
DEEC.UC: My alma mater and my career!

3pm - Elevator Pitch sessions

PhD Students and Interns

Bruno Rosmaninho
Visible Light Communications and Sensing Towards 6G Applications

Fernanda Famá
A Smart Gateway on the Edge for Heart Disease Condition Classification and Patient Status Monitoring

João Manuel Carrilho Gil Martins
Physical Layer Authentication and Security for Unmanned Vehicles Communications

João Marques-Pereira
Digitalization of Business Process Realization

Maria Eduarda Andrada
Artificial Perception Framework for Scene Understanding in Forestry Robotics

Omid Pedram
Coordinated Management of Distributed Energy Resources for Renewable Energy Communities

Panagiotis T. Karfakis
Cooperative and Multimodal Localization of 5G-enabled Multi Robot Systems

Pedro Conde
Improving the reliability and probabilistic interpretation of deep neural networks in critical applications

Rodrigo Salles
Online Process Optimization toward Sustainability: Application to Wastewater Treatment Plants

Vishal Gautam
Integration of Social Robots in Human Society

Luís Matos
DailyChronic – A Chronic Pain Management App

Matéo Gatel
Virtual Reality interactions with a Baxter robot to capture emergency stop signals

Thibault Delpy
Creating an embodiment experiment in VR

Zamayra Hernandez Solis
Facial expression recognition using Recurrent Neural Networks

MSc Students

Alexandre Diogo Pereirinha
Avaliação do Princípio de "Eficiência Energética Primeiro" nos Planos de Desenvolvimento e Investimento das Redes

Alexandre Monteiro Rodrigues
O SRI como estímulo ao aumento da flexibilidade dos edifícios - uma aplicação ao DEEC

Ana Margarida Rebelo Gonçalves
Processo de Desenvolvimento de Normalização Tecnológica: Plataforma de gestão e análise de soluções inovadoras para planeamento e construção de redes de BT

André Gameiro Marques
Aplicação de realidade virtual para estimulação cognitiva-sensorial

André Guilherme Simões Santos Batista Silva
Diagnóstico de Avarias no Estator de PMSM's usando Injeção de Sinal de Alta Frequência

André Luís Ferreira
Automatic diagnosis of gait pathologies using GaitRec dataset

António José Brás Silva
Security for Smart Grids in 5G Environments

Diogo Firmino Marques Gomes
Armazenamento de energia para as comunidades de energia

Diogo Miguel Pardal Monteiro
Gestão local de energia baseada em Smart Contracts e Blockchain

Henrique Daniel da Silva
Transformador eletrónico de 3 estágios com retificador de topologia MMC

João Carlos dos Santos Alves
Sistema fotovoltaico sem transformador com ligação à rede, baseado na configuração HERIC

Miguel Costa Monteiro
Desenvolvimento de um sistema de apoio ao ensino baseado em dispositivos móveis

Miguel Mendes Silva
Transformers on Face Anti Spoofing

Rafael Gameiro Marques
Validação da identidades gráficas com QR codes em superfícies curvas – um caso de uso no mercado do vinho

Tiago Baltazar Felix da Silva
One Dimensional Implementation of Nonreciprocal and Non-Hermitian Material Response using Coupled Transmission Lines

4pm - Poster Session

Each student will be explaining more details about the presented work near his/her poster.
All other students are invited, along with professors and visitors to join them and make questions.

5h30pm - Closing