

1st Open day & Workshop @ISR-UC

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COMPUTER VISION

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Welcome Session



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8 PRESENTATIONS

24 POSTERS

93 REGISTERED





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| 14:00 | | Welcome to Open Day and Workshop @ ISR-UC |
|---------------|-------|---|
| 14:15 - 1 | 15:15 | Presentation of Research Activities |
| 14 | l:15 | UniQode: an integrated solution for secure authentication and traceability Allan Freitas da Silva /Guilherme G. Schardong |
| 14 | l:30 | The main challenges of Brain-computer interfaces: reliability and usability Aniana Cruz |
| 14 | l:45 | CodeFace: a deep learning printer-proof steganography for face portraits Luiz Schirmer |
| 15 | 5:00 | Machine intelligence in Rehabilitation, Pathologies Characterization and Wildfires João Ruivo Paulo |
| 15:15 - 15:35 | | Kick off on Posters Presentation (in the Coffee break spot) |
| 15:35 - 16:15 | | Coffee Break & Poster session |
| 16:15 - 17:15 | | Presentation of Research Activities |
| 16 | 6:15 | Computational Intelligence on Industry. Projects: iProMo & InGestAlgae Jérôme Mendes |
| 16 | 6:30 | Deformable Face Models in the Wild Pedro Martins |
| 16 | 6:45 | Entities recognition through computer vision:faces and unique precious metal marks João Marcos |
| 17 | 7:00 | Motion Planning Supported by Reinforcement Learning in an Assisted Mobility Context Luís Garrote |
| 17:15 - 17:30 | | Closing Session |
| 17:30 | | Sunset gathering (free food and drinks) |



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Posters Presentation - 15:15 - 15:35

An experimental assessment of depth estimation performance for three different depth cameras technologies in transparent and refractive scenes

Eva Curto

Artificial Perception Framework for Scene Understanding in Forestry Robotics

M. Eduarda Andrada

Biosignal-driven Machine agents and Reinforcement Learning

João Perdiz

CodeFace: A Deep Learning Printer-Proof Steganography for Face Portraits

Farhad Shadmand

Cooperative and Multimodal Localisation of 5G-enabled Multi Robot Systems

Panagiotis Karfakis

Deep Facial Diagnosis

Jin Bo

Deep Fuzzy Systems in regression applications: a view on interpretability

Jorge Sampaio Silveira Júnior

Deep Learning on Intelligent Transportation Systems

Bruno Silva

Deep Learning-based Perception Modules applied in a Dynamic Environment-based

Visual Interface System for Brain-actuated Wheelchairs

Ricardo Pereira

Efficient Large-Scale Mapping and Path Planning in Forest Environments

Afonso Carvalho

EU-MORE Project: Accelerating electric motor renovation in the EU

João Fong

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

Pedro Conde

LiDAR semantic segmentation in SafeForest project

Habibu Mukhandi

Multi-camera Wireless Capsule Endoscopy: Segmentation of Movement and Local Panoramic Views for Capsule Localization and Lesion Detection

Marina Duarte de Macedo Oliveira

Multi-Robot Path Planning based on Self-Organized Map for Autonomous Robots André Araújo

Multimodal perception for precision agriculture

Tiago Barros

Off-Grid Solar Systems for Sustainable development - Design and Optimization of a Cold-Storage System with Thermal Energy Storage for Developing Countries Evandro Garcia

Online optimization toward sustainability: application to Wastewater Treatment Plant Rodrigo de Oliveira Salles

Optimization and Management of Microgrids to Deliver High Power Quality in Critical and Disaster Situations

Alexandre Filipe Matias Correia

Robustness of deep learning based face recognition under morphing attacks lurii Medvedev

Single trial detection of error-related potentials in brain-machine interfaces

Mine Yasemin

Toward Autonomous Fabrication of Chip-integrated Stretchable Circuits Pedro Lopes

Visual Odometry in Wireless Capsule Endoscopy

Nahid Nazifi

Visual Perception Methods for Autonomous Driving

Gopi Krishna Erabati



ORGANIZING TEAM

CRISTIANO PREMEBIDA
JÉRÔME MENDES
JOÃO MARCOS
JOÃO RUIVO PAULO
MAHMOUD TAVAKOLI
NUNO GONÇALVES

Institute of Systems and Robotics

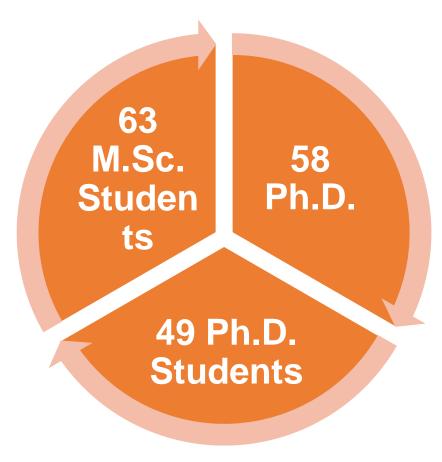


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Researchers at ISR-

Spin-Offs

OptiSigma
Energia &
Ambiente, Lda



Perceive 3D S.A.



ActiveSpace Tecnologies



Ingeniarius



Softbionics



Presentation of Research Activities