Carnegie Mellon Portugal

#14 | June 2021

News from the Fence



Open Call until June 30th for Exploratory Research Projects (ERPs) in strategic emerging areas of ICT under the scope of the CMU Portugal Program and funded through Fundação para a Ciência e a Tecnologia (FCT). The total investment available for Portuguese research institutions is up to €400 thousand euros. The research team at Carnegie Mellon University will be funded independently by the CMU Portugal Program at Carnegie Mellon University at a level similar to the Portuguese team.

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CMU Portugal 2021 Doctoral Symposium

The CMU Portugal Program will host **between September and December, a Doctoral Symposium** addressed to all CMU Portugal Dual-Degree and Affiliated Ph.D. Program candidates, and all Ph.D. candidates conducting their doctoral thesis under a CMU Portugal research project. The main goal of this initiative is to foster a supportive community of Ph.D. candidates and a collaborative research environment by providing participants the opportunity to present their work plans and discuss the results with their peers.



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CMU Portugal Session at Ciência 2021

The CMU Portugal Program will host on **June 28th** between 3:30pm and 5pm the session "**The contribution of the CMU Portugal international partnership for the high-tech ecosystem in Portugal"** a discussion that will count on the presence of representatives from leading high tech companies involved with the Program.

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User Experience Design Talks @CMUPortugal

The Carnegie Mellon Portugal Program hosted between April and June a series of three webinars entitled **"User Experience Design Talks @CMU Portugal"** organized in the framework of the Advanced Training Programs in User Experience Design, planned to start in 2021.

Session 1: John Zimmerman (CMU HCI Institute)
Session 2: Lining Yao (CMU HCI Institute and Morphing Matter Lab)
Session 3: Gierad Laput (Research and Engineering Manager at Apple)

Innovative Ink that Allows to Print Flexible, Stretchable and Multi-Layer Circuits was the cover of the ACS Applied Materials and Interfaces Journal

A recent article from the "Soft and Printed Microelectronic" Laboratory (SPM-UC) at Universidade de Coimbra, led by Mahmoud Tavakoli – CMU Portugal Faculty member and WOW PI – was selected as the Cover Page of the ACS Applied Materials and Interfaces Journal. This research work introduces a unique printable ink that allowed, for the first time, digital printing of multi-layer stretchable circuits, e-skins and adhesive medical patches for electrophysiological monitoring. The ink formulation is patented jointly by the University of Coimbra and Carnegie Mellon University.



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CMU Portugal joins the Bauhaus of the Seas Conference in Lisbon

The first **Bauhaus of the Seas Conference** took place on May 20th and gathered at MAAT, in Lisbon, distinguished speakers from all over the globe involved in the New European Bauhaus (NEB) initiative, aimed at improving the quality of life of European citizens and promoting a more sustainable society. As part of the NEB movement and led by CMU Portugal co-director Nuno Nunes, the Bauhaus of the seas initiative promotes renewed ethical and aesthetic regenerative development from a widely diverse range of dimensions of our continued relationship with the sea.

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In the media: Bee2WasteCrypto project in Visão Podcast “Conversas Verdes”

The CMU Portugal Large Scale Collaborative project Bee2WasteCrypto, led by Future Compta with NOVA IMS, Instituto Superior Técnico and the company 3drivers was highlighted in the “Conversas Verdes” podcast promoted by Visão Magazine.

Podcast "Conversas Verdes" (link)

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In the Media: SAFEFOREST project in Expresso Newspaper

The CMU Portugal large Scale Collaborative project SAFEFOREST, led by Ingeniarius in collaboration with Silvapor, ISR Coimbra, Associação para o Desenvolvimento da Aerodinâmica Industrial (ADAI) and the Robotics Institute at Carnegie Mellon University was highlighted in Expresso, one of the leading Portuguese newspapers.

Expresso article (link)



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Upcoming events



LxMLS 2021 – 11th Lisbon Machine Learning Summer School

The LxMLS 2021 will take place from **July 7th to July 15th** in an **online format (via zoom and slack)**. This year the event is organized jointly by Instituto Superior Técnico (IST), Instituto de Telecomunicações, INESC-ID, Unbabel, Cleverly and Priberam with the support of the CMU Portugal Program.

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Other events:

CMU Portugal Session at Encontro Ciência I online and onsite at Centro Congressos de Lisboa I June 28, 2021

Encontro Ciência 2021 I online and onsite at Centro Congressos de Lisboa I June 28 to 30 , 2021

DCE 2021 | Doctoral Congress in Engineering | Symposium on Biomedical Engineering I 28-29 June, 2021 (online)

Deadline for applications to CMU Portugal Call for ERPs I June 30 I online

Pfizer Awards 2021 - Health Sciences I July 9 I online

Fraunhofer Portugal Challenge 2021 I Deadline for applicartions: July 31, 2021

The Cornell, Maryland, Max Planck Pre-doctoral Research School 2021: Emerging Research Trends in Computer Science | Saarbruecken, Germany I 2 - 7 August 2021

Prémios Santa Casa Neurociências (Neurosciences Awards) I September 13 I online

2021 Champalimaud Research Symposium (CRS21) under the topic Dialogues on Neural and Machine Intelligence Champalimaud Research Symposium 2021 I 13 - 15 October 2021

CMU Portugal Publications

Papers

- "Ordinal losses for classification of cervical cancer risk". Albuquerque T., Cruz R., Cardoso J. I PeerJ Computer Science I 2021
- "Towards the benchmarking of question generation: introducing the Monserrate corpus". Rodrigues H., Nyberg E., Coheur L. I Language Resources and Evaluation I 2021

Conference Papers

- "Promoting Fairness through Hyperparameter Optimization". Cruz A., Saleiro P., Belem C., Soares C., Bizarro P. I ICLR'2021 I 2021
- "Weakly Supervised Multi-task Learning for Concept-based Explainability". Belém C., Balayan V., Saleiro P., Bizarro P. I ICLR'2021 I 2021
- "Explainable Noisy Label Flipping for Multi-Label Fashion Image Classification". Ferreira B., Costeira J.P., Gomes J. I CVPR 2021 Workshop I 2021
- "BERT Embeddings Can Track Context in Conversational Search". Ferreira R., Semedo D., Magalhães J. I preprint I 2021
- "Embedded Regularization For Classification Of Colposcopic Images". Albuquerque T., Cardoso J. I 2021 IEEE 18th International Symposium on Biomedical Imaging (ISBI) I 2021
- "Analysis of VM Migration Scheduling as Moving Target Defense against insider attacks". Torquato M., Maciel P., Vieira M. I SAC '21 I 2021
- "In-Tunnel Multi-Ray Analysis for LOS V2V Links with Multiple Antennas". Gaitan M., Robles R. I 2021
- "Towards Formal Verification of Password Generation Algorithms used in Password Manager". Grilo M., Ferreira J., Almeida J. I preprint I 2021
- "On using distributed representations of source code for the detection of C security vulnerabilities". Coimbra D., Reis S., Abreu R.,Pasareanu C., Erdogmus H. I preprint I 2021

* collected by Google Scholar Alert for "CMU Portugal" + "Carnegie Mellon Portugal" and researchers' contributions between October and December 2020. More CMU Portugal publications are available on our website under Publications.

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