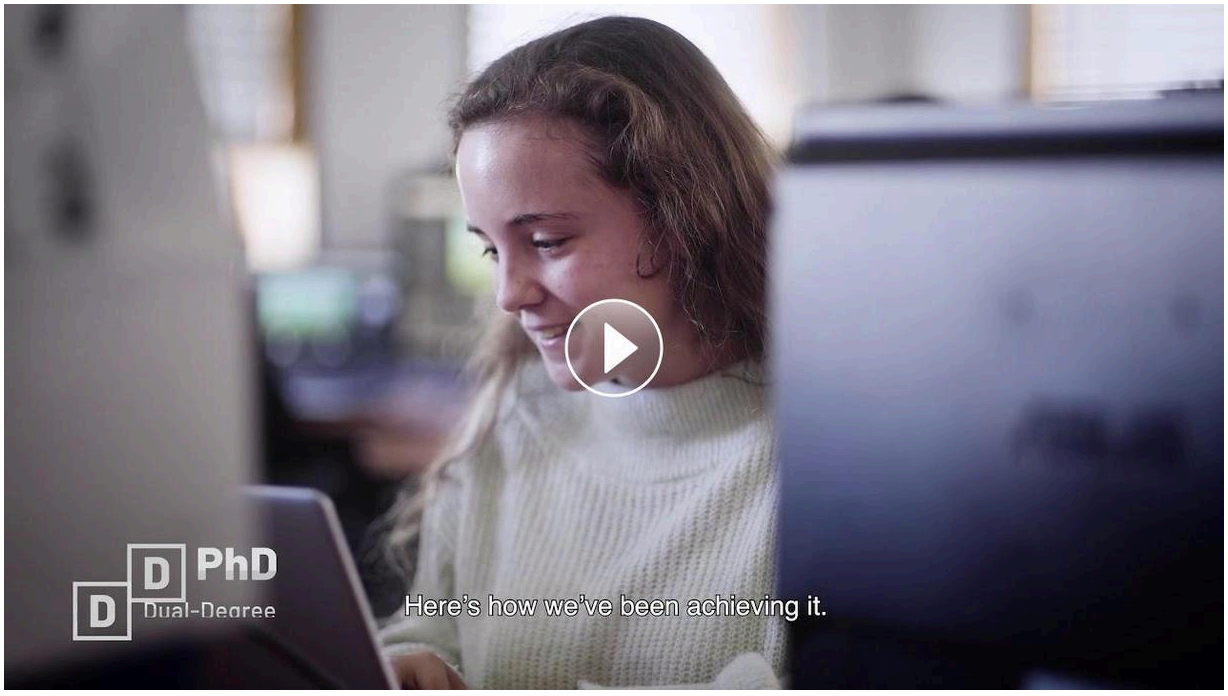
Carnegie Mellon Portugal

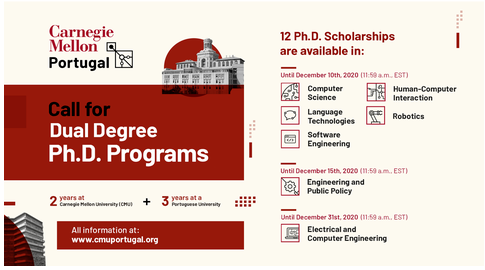
#11 | December 2020

News from the Fence

CMU Portugal Program New Institutional Video

Have you already seen our **NEW Video**? If not, we are proud to share it here! This footage represents what the CMU Portugal Program is all about. More than our mission and initiatives, we are happy to have built throughout the years a strong community of students, faculty members, researchers, industrial and academic partners willing to put technology at the service of all! We hope you enjoy it.





Last days to apply to 2021/2022 CMU Portugal Ph.D. Scholarships

The **Carnegie Mellon Portugal Program** and Fundação para a Ciência e a Tecnologia (FCT), have an open call for up to **12 Ph.D. Dual Degree scholarships** for the 2021/2022 academic year.

Each Ph.D. program has its own application deadline (all in December), so if you are a potential candidate be sure to not miss yours!

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CMU Portugal Orientation Day: welcoming the 2020/2021 new students

The CMU Portugal Program held its 2020 Orientation Day on October 11, at Fundação Luso-Americana (FLAD) to **welcome the eight new Dual Degree Ph.D. students** and offer a look at what they can expect from the next years under the Program. Joining the group were other 6 Ph.D. students and 6 alumni, that participated onsite or online to share their CMU Portugal Dual Degree experience.

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CMU Portugal Session at Ciência 2020 Summit

On November 4th, the CMU Portugal Program held the Session **"CMU Portugal – Defining New Frontiers in Technology Within the Health Sector"** at Ciência 2020 Summit, the central Science Conference in Portugal promoted by the Ministry of Science Technology and Higher Education (MCTES) along with FCT.
This year's edition was mostly remote and the Program was able to host a very fruitful discussion held online and offline, that included presentations from 3 (three) representatives of our new Large-Scale Collaborative Research projects related to the Health Sector.

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CMU Portugal Inside Story: interview with Alumna Andreia Gonçalves distinguished this year at the Portuguese Women in Tech Awards

Andreia Gonçalves won this year the Portuguese Women in tech Award for best Lead Designer track. Andreia is a **CMU Portugal Master Alumna in HCI** and currently works as an Interaction designer at Nokia Solutions and Networks.

Proud to have been distinguished with this Award, she explained to us how she became a woman in tech, her experience under the CMU Portugal Program and her main ambitions. Most of all, the message that she wants to leave for other young women is the importance of education and of believing in yourself.

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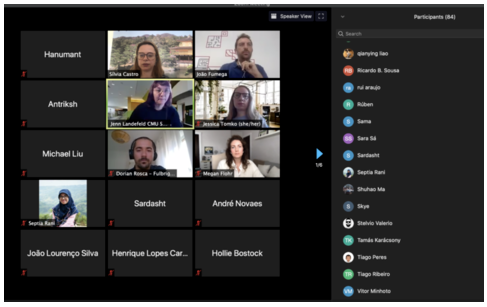

More than 100 participants attended the CMU Portugal Dual Degree Ph.D online Info Session

The CMU Portugal online Info Session **"How to apply for a CMU Portugal Dual-Degree Ph.D. Scholarships"** was a meeting point for future candidates to learn more about the application process and discuss any potential questions and concerns. The event's objective was successfully achieved with a total of 104 participants from all over the globe.

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Building Hope

One of the 12 Large Scale projects recently launched under the Program is Building Hope. The project will develop a tool to redefine buildings energy management practices in the context of smart urban environments in a consortium led by DST Solar, Watt-Is, Innovation Point, Instituto Superior Técnico and Universidade de Coimbra.

In the news: Vida Imobiliária, O Minho

Job Opportunity: Research grant in Computer Science and Engineering under project SyNAPSE

A Call is open under the scope of project CMU/TIC/0083/2019, funded exclusively by Fundação para a Ciência e Tecnologia (FCT) under the scope of the CMU Portugal Exploratory Project SyNAPSE. The candidates should have an MSc Computer Science and Engineering or related areas. The grant holder will: learn the internals of programming smart network equipment and catalog the requirements, constraints, and limitations of each platform; help build the first SyNAPSE research prototype synthesis engine and develop optimizations for the synthesis engine to offload functionality to the smart devices.

Institution: INESC ID
Application Deadline: 14 Dec 2020, to start in January 2021

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Upcoming events

- Deadline to apply for CMU Portugal dual-degree Ph.D.s in: Computer Science, Human-Computer-Interaction, Language Technologies, Robotics, and Software Engineering
  December 10, 2020 (11:59am, EST)
- Deadline to apply for CMU Portugal dual-degree Ph.D.s in Engineering and Public Policy
  December 15, 2020 (11:59am, EST)

- Deadline to apply for CMU Portugal dual-degree Ph.D.s in Electrical and Computer Engineering
December 31, 2020 (11:59am, EST)

- Fundação para a Ciência e Tecnologia Call for Project Grants in all Scientific Domains
From January 28 to March 10, 2021 (5pm, GMT).

- CHItaly 2021 - Frontiers of HCI - Biannual Conference of the Italian SIGCHI Chapter
June 27-29, 2021, Bolzano - Italy

CMU Portugal Publications



Papers

"A Mean-Field Game Approach to Price Formation" - Gomes D.A., Saúde J.

Dynamic Games and Applications, 2020

"Joint Flight Cruise Control and Data Collection in UAV-aided Internet of Things: An Onboard Deep Reinforcement Learning Approach". Li K., Ni W., Tovar E., Guizani M.

IEEE Internet of Things Journal, 2020

"O-MedAL: Online active deep learning for medical image analysis" - Smailagic, A., Costa, P., Gaudio, A., Khandelwal, K., Mirshekari, M., Fagert, J., Walawalkar, D., Xu, S., Galdran, A., Zhang, P., Campilho, A., Noh, H.

WIREs Data Mining and Knowledge Discovery, 2020

"Optimal Action Sequence Generation for Assistive Agents in Fixed Horizon Tasks" - Baraka, K., Melo, F. S., Couto, M., Veloso, M.

Autonomous Agents and Multi-Agent Systems, 2020

"Wearable and Comfortable e-Textile Headband for Long-Term Acquisition of Forehead EEG Signals" - Carneiro M.; Almeida A.; Tavakoli M.

IEEE Sensors Journal, 2020

Conference Papers

“A Quest for Inspiration: How Users Create and Reuse PINs” - Casimiro M., Segel J., Li L., Wang Y., Cranor L. F.

WAY2020, 2020.

“Assessment of Motor Compensation Patterns in Stroke Rehabilitation Exercises” - Cóias A., Bernardino A.

RECPAD 2020, 2020.

“Fault Injection to Generate Failure Data for Failure Prediction: A Case Study” - Campos J.; Costa E.

IEEE 31st International Symposium on Software Reliability Engineering (ISSRE), 2020.

“Water Based Magnification of Capacitive Proximity Sensors: Water Containers as Passive Human Detectors” - Rocha R. ,

Almeida A., Tavakoli M. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2020.

"The Usability Argument for Refinement Typed Genetic Programming?" - Fonseca A.; Santos P. ; Silva S. International Conference, PPSN, 2020.

"Adaptive Temporal Triplet-loss for Cross-modal Embedding Learning" - Semedo D, Magalhães J. ACM International Conference on Multimedia, 2020.

* 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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