Carnegie Mellon Portugal

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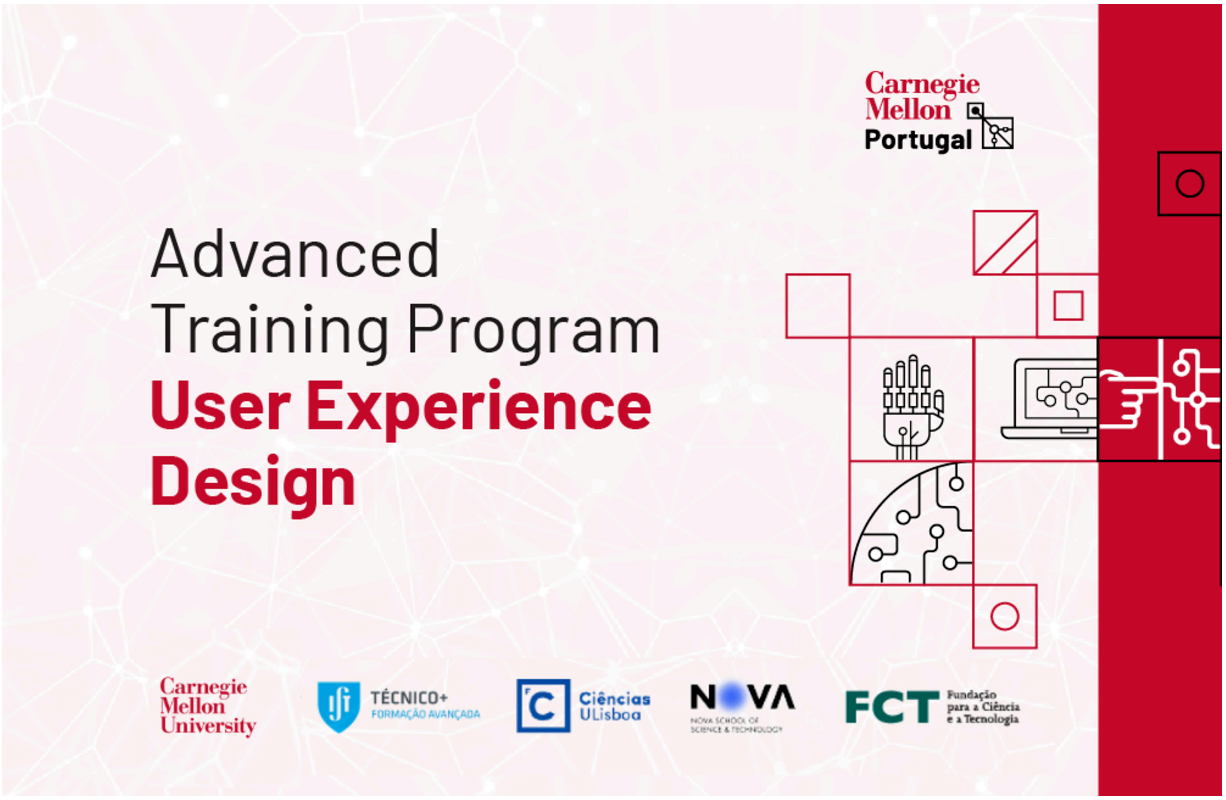
News from the Fence



Applications are open to the CMU Portugal Advanced Training Program in User Experience Design

A Call is open for applications to the first edition of the **Advanced Training Program in User Experience Design**, an initiative promoted in collaboration with Técnico +, the Advanced Training School from Instituto Superior Técnico, Faculdade de Ciências da Universidade de Lisboa (FCUL), Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa (FCT UNL) and Carnegie Mellon University (CMU).

The Course will **start in March 2022 and convene through June 2022** for 10 modules (216h). Classes will take place primarily onsite at Técnico+ facilities, at the Alameda Campus in Lisbon, and count on Carnegie Mellon Faculty members that will lecture some of the modules.

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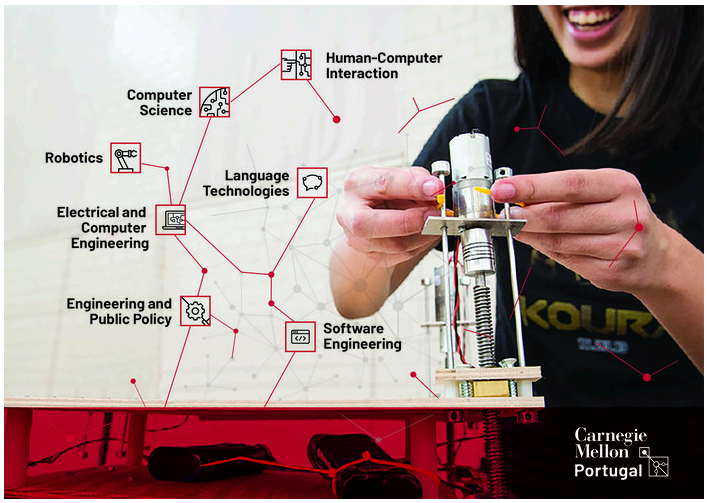

2021: CMU Portugal Program year in Review

Throughout 2021, the Program has continued to support its main activities but has also launched some new initiatives, such as the new Educational Program "Affiliated Ph.D. Programs" and a new Call for Exploratory Research Projects. But 2021 started with a main change in the Program's leadership with the appointment on January of a new CMU Portugal National Co-Diretor, Inês Lynce, Full Professor at Técnico and President of INESC ID who assumed the co-direction alongside Nuno Nunes.

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CMU Portugal adds 6 new Exploratory Projects in ICT to its research portfolio

The CMU Portugal Program has **six (6) new Exploratory Research Projects (ERPs)** under its portfolio for a total of 77 projects supported since its beginning in 2006. These projects will run in 2022 at 10 Portuguese research units from Universities of Coimbra, Lisbon, Minho and Porto, in collaboration with 5 different departments at CMU, focusing on research areas and subjects as diverse as: data science applied to healthcare, the creation of satellites (PocketQube), human-robot interaction, traffic supervision for Cybercrime Investigation or applied AI for customizable robotic exoskins.

Online News: Sapo Tek; Técnico website; Imprensa de Hoje; Universidade do Minho; Ardina online; Ciências ULisboa

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Portuguese Minister of Science, Technology and Higher Education visited CMU

The Portuguese Minister for Science, Technology and Higher Education, Manuel Heitor, visited Carnegie Mellon University (CMU) in Pittsburgh on November 29th and 30th.

The visit focused on strengthening the cooperation between Portugal, Carnegie Mellon University, and Industry through the Carnegie Mellon Portugal Program. It was an excellent opportunity for the Portuguese Minister to hear about the most recent achievements of the CMU Portugal Program directly from people who are involved in its different areas, from education to research. The event counted with the participation of CMU leadership, CMU researchers participating in the Exploratory Research Programs (ERPs) and Large Scale Collaborative Research projects (LSCRP), and Dual Degree Ph.D. students currently at CMU and their CMU advisors.






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José M.F. Moura distinguished by Minister Manuel Heitor with a Medal of Scientific Merit

On December 21, the Minister of Science, Technology and Higher Education, distinguished 12 personalities, including CMU Portugal program Director at Carnegie Mellon José M.F. de Moura, with a Medal of Scientific Merit. This distinction rewards national and foreign individuals for their exceptional contributions to the development of science or scientific culture.

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Waste production in Lisbon falls sharply during the 1st Covid lockdown

A team of researchers from NOVA IMS concluded, in a study carried out under the CMU Portugal Large Scale Project BEE2WasteCrypto, that during the 1st lockdown related to COVID-19, there was a severe drop in the production of waste in Lisbon, for both mixed and recycled waste, essentially due to the fall of tourism. The Paper "Impact of COVID-19 lockdown measures on waste production behavior in Lisbon" featured on the February edition of the 'Waste Managent Journal'.

News in the Media:
Visão; Observador; Diário de Notícias; Sapo.pt; CM Jornal; Saúde Mais

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Registrations are OPEN: Webinar #2 of the "AIDA Webinar Series I Improving 5G Risk Management"

The **second Webinar "The impact of edge computing and 5G for Telcos" of the initiative AIDA Webinar Series** promoted by the CMU Portugal Program and the coordination of the Large Scale Collaborative project AIDA will take place online on **February 11 at 3pm** (UTC) with Ricardo Vilaça (INESC TEC and University of Minho) and Bruno Sousa (University of Coimbra/CISUC) as speakers and moderation by João Vilela (FCUP, CISUC, and INESC TEC).

This event is part of a series of 5 Webinars organized between December 2021 and September 2022 on improving 5G risk management, gathering leading experts from academia to industry involved with the project.

Registration to access the Zoom Webinar #2 is free but mandatory.

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Inside Story: Afonso Amaral's first year at CMU

Afonso Amaral is a CMU Portugal Dual Degree Ph.D. second year student in Engineering and Public Policy (EPP) at Instituto Superior Técnico (IST) and at CMU Department of Engineering and Public Policy. Currently in Pittsburgh through spring 2022, he shared with us what drew him to the Program, the challenges of being in an international Program, and where to grab his favorite snack on campus.

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CMU Portugal faculty member Soummya Kar elevated to fellow status in the IEEE Institute

Soummya Kar, a professor of Electrical and Computer Engineering at Carnegie Mellon University and Faculty member of the CMU Portugal Program has been elevated to fellow status in the Institute of Electrical and Electronics Engineer (IEEE), the world's largest technical professional organization for the advancement of technology.



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Job opportunities

ONE research grant (BI) in Computer Science under the scope of CMU Portugal exploratory project "Supervised Deanonymization of Dark Web Traffic for Cybercrime Investigation"

A research grant is available for a MSc candidate with a degree in Computer Science, Informatics, systems Engineering or similar area on network traffic analysis in #Tor networks to work at INESC TEC.

Institution: INESC TEC
Application deadline: 16/02/2022

Upcoming events

- AIDA Series on 5G Risk Management I Webinar #2 I Online I February 11 - 3pm UTC
- FCT Call for R&D Projects in all Scientific Domains I Applications are open between February 8 and March 10
- VISUM 22 I Summer Mentorship Program (July 10-16) on conversational agents supported by CMU Portugal iFetch Project I Deadline for applications is March 31
- SCEE 2022 - 14th International Conference on Scientific Computing in Electrical Engineering I March 7 - 10 I Amsterdam
- Call for Advanced Computing Projects - 2nd edition - Opening for Submissions on A1 – Preparatory Access and A0 I April 28, 2022
- AIDA Series on 5G Risk Management I Webinar #3 I Online I April 20

CMU Portugal Publications

Papers and Conference papers

- Pereira, J. D., Antunes, J. H., & Vieira, M. (2021). On Building a Vulnerability Dataset with Static Information from the Source Code. 2021 10th Latin-American Symposium on Dependable Computing (LADC), 1–2.
- E Sousa, M. Q., Pedrosa, J., Rocha, J., Pereira, S. C., Mendonca, A. M., & Campilho, A. (2021). Chest Radiography Few-Shot Image Synthesis for Automated Pathology Screening Applications. 2021 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), 1791–1798.
- Neves, F., Machado, N., Vilaca, R., & Pereira, J. (2021). Horus: Non-Intrusive Causal Analysis of Distributed Systems Logs. 2021 51st Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN), 212–223.
- Hajalilou, A., Silva, A. F., Lopes, P. A., Parvini, E., Majidi, C., & Tavakoli, M. (2022). Biphasic Liquid Metal Composites for Sinter-Free Printed Stretchable Electronics. Advanced Materials Interfaces, 2101913.
- Virone, M., Lopes, P., Rocha, R. P., de Almeida, Anibal. T., & Tavakoli, M. (2021). Dynamic hand gesture recognition using a stretchable multi-layer capacitive array, proximity sensing, and a SVM classifier. 2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 7183–7188.
- Sarmento, P., Motta, M., Scott, I. J., Pinheiro, F. L., & Neto, M. D. C. (2022). Impact of COVID-19 lockdown measures on waste production behavior in Lisbon. Waste Management, 138, 189–198.
- Kaboutari, K., Abraray, A., & Maslovski, S. (2021). Beamforming with Intelligent Metasurfaces: Operating Principles and Possible Implementations. 2021 International Conference on Electrical Engineering and Photonics (EExPolytech), 63–66.
- Oliveira, M., Piacenti-Silva, M., Gomes Da Rocha, F. C., Santos, J. M., Dos, J., Cardoso, S., & Noronha Lisboa-Filho, P. (2022). Lesion Volume Quantification Using Two Convolutional Neural Networks in MRIs of Multiple Sclerosis Patients.

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