Carnegie Mellon Portugal

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News from the Fence



Call for Applications: 12 Affiliated Ph.D. Scholarships for studies in Portugal and CMU in the 2024/2025 academic year

Applications are open for the 4th edition of the CMU Portugal Affiliated Ph.D iniative, offering Ph.D. scholarships in selected cutting-edge areas of ICT, related to the scope of the Program. With scholarships funded by Fundação para a Ciência e a Tecnologia (FCT), students will be fully hosted by Portuguese Universities, with the opportunity of a research period at Carnegie Mellon for up to 1 year. The admissions period will run until May 2nd, 2024.

CMU Portugal will hold an info session on April 9th to clear any questions about the application process.

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Call for CMU Portugal Mobility Opportunities: deadline is April 8th

Applications are still open for the 2024 Mobility Initiatives “Visiting Faculty & Researchers” and “Visiting Students” aimed for research periods at Carnegie Mellon University within 2024.

The application deadline for both calls – launched under the scope of the CMU Portugal Program with the support of FCT – is **April 8th, 2024.**

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LxMLS 2024 – The 14th Lisbon Machine Learning Summer School

The Lisbon Machine Learning Summer School (LxMLS) takes place yearly at Instituto Superior Técnico. LxMLS 2024 will be a 6-day event, scheduled to take place from July 11th to the 17th as an in-person event.

Registrations are open until April 26th.

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Isabel Trancoso Awarded the Medal for Scientific Achievement by the International Speech Communication Association (ISCA)

Isabel Trancoso, a CMU Portugal faculty member and Researcher at INESC-ID was distinguished as the 2024 recipient of the ISCA Association Medal for Scientific Achievement, for her “pioneering contributions to speech coding and resources for the Portuguese language, and sustained service to the speech community.”

Isabel Trancoso becomes the 30th honoree of this prestigious Medal and the first Portuguese recipient.

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Carmel Majidi named the Clarence H. Adamson Professor of Mechanical Engineering at CMU



Carmel Majidi, long time CMU Portugal collaborator, was named the Clarence H. Adamson Professor of Mechanical Engineering at Carnegie Mellon University (CMU).

Throughout the years, Majidi has served as a project PI in several impactful CMU Portugal projects collaborating closely with Mahmoud Tavakoli, Director of the "Soft and Printed Microelectronics Laboratory" (SPM) from FCTUC, Stretchtonics (ERI); WoW and Exoskins.

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Remembering Jared Cohon

On March 16th, 2024, Carnegie Mellon University former President, Jared Cohon, passed away at the age of 76.

Serving as CMU President from 1997 to 2013, Cohon played a pivotal role in launching the CMU Portugal partnership. In October 2006, Cohon signed the original agreement and, during the first seven years of the Program, made frequent visits to Portugal, demonstrating his support for this international collaboration.

In honor of Jared Cohon's memory, the Carnegie Mellon Portugal Program community pays tribute to CMU President Emeritus extraordinary legacy.

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Inside Story: Hirokazu Shirado two months visit to Portugal under the CMU Portugal Program

Hirokazu Shirado, Assistant Professor at Carnegie Mellon's Human-Computer Interaction Institute (HCII) recently conducted a visiting research period in Lisbon supported from the Carnegie Mellon Portugal Program. Shirado visited the Group of AI for People and Society (GAIPS) from INESC ID led by Professor Ana Paiva, remarking that the visit had been a fantastic opportunity to expand his research agenda and academic networks through communication with researchers at Portuguese institutions.

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Mahmoud Tavakoli featured in Nature's "Where I Work"

Mahmoud Tavakoli, Director of the "Soft and Printed Microelectronics Laboratory" (SPM) from the Faculty of Science and Technology of Universidade de Coimbra (FCTUC), featured in a recent Nature article, named "How I make stretchy electronics for medicine". Through CMU Portugal, Tavakoli's has collaborated with the Soft Machines Lab from Carnegie Mellon University's College of Engineering on several impactful projects and the supervision of CMU Portugal Dual Degree Ph.D. students.





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Exploratory project "Signo" kickoff meeting

The Kickoff Meeting of CMU Portugal new Exploratory Research Project (ERP) Signo took place at Fraunhofer Portugal AICOS on January 10th, 2024. Funded under the 2022 CMU Portugal Call for ERPs, this year-long initiative, led by Fraunhofer with collaboration from Instituto de Filosofia (Faculdade de Letras da Universidade do Porto) and the Software and Societal Systems Department at Carnegie Mellon, aims to integrate principles of Human-Centered Design.

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MH-1, the first satellite totally developed in Portugal was launched to space

AEROS-MH-1, the first satellite built and operated from Portugal for ocean observation, was launched on March 4th, 2024, from Space-X base in California, USA. MH-1 was born from the collaboration of 12 national entities, condensed into a final product coordinated by two CMU Portugal Industry affiliates: CEiiA and Thales Edisoft Portugal.

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Upcoming events

- 46th International Conference on Software Engineering (ICSE) 2024 | April 14-20 | Lisbon
- Workshop on Human Biomonitoring in Portugal | April 19 | Lisbon
- SciCom 2024 | May 8 - 10 | Braga
- Science 2024 Meeting | July 3 - 5 | Porto
- LxMLS 2024 | July 11 - 17 | Lisbon

CMU Portugal Publications

Papers

- Agrawal, S., Farajian, A., Fernandes, P., Rei, R., & Martins, A. F. T. (2024). Is Context Helpful for Chat Translation Evaluation?.
- Casimiro, M., Soares, D., Garlan, D., Rodrigues, L., & Romano, P. (2024). Self-Adapting Machine Learning-based Systems via a Probabilistic Model Checking Framework. ACM.
- Domingues, M., Faria, J. N., & Portugal, D. (2024). Dimensioning payload size for fast retransmission of MQTT packets in the wake of network disconnections. EURASIP Journal on Wireless Communications and Networking, 2024(1), 2.
- Faysse, M., Fernandes, P., Guerreiro, N. M., Loison, A., Alves, D. M., Corro, C., Boizard, N., Alves, J., Rei, R., Martins, P. H., Casademunt, A. B., Yvon, F., Martins, A. F. T., Viaud, G., Hudelot, C., & Colombo, P. (2024). CroissantLLM: A Truly Bilingual French-English Language Model.
- Freitas, M. C., Sanati, A. L., Lopes, P. A., Silva, A. F., & Tavakoli, M. (2024). 3D Printed Gallium Battery with Outstanding Energy Storage: Toward Fully Printed Battery-on-the-Board Soft Electronics. Small.
- Gonçalves, J. M., Bastos, A. R. N., Ribeiro, S. J. L., Carlos, L. D., Longo, R. L., Caiut, J. M. A., & Ferreira, R. A. S. (2024). Thermal properties of nanofluids using hydrophilic and hydrophobic $LiYF_4$:Yb/Er upconverting nanoparticles. Nanoscale Advances, 6(5), 1486–1496.
- Kaboutari, K., Abraray, A., & Maslovski, S. (2024). Numerically Optimized Fourier Transform-Based Beamforming Accelerated by Neural Networks. Applied Sciences, 14(7), 2866.
- Lima, R., Ferreira, J. F., Mendes, A., & Carreira, C. (2024). DifFuzzAR: automatic repair of timing side-channel vulnerabilities via refactoring. Automated Software Engineering, 31(1).
- Lopes, R., Magalhães, J., & Semedo, D. (2024). Gl\'orIA -- A Generative and Open Large Language Model for Portuguese.
- C. Pereira, S., Mendonça, A. M., Campilho, A., Sousa, P., & Teixeira Lopes, C. (2024). Automated image label extraction from radiology reports — A review. Artificial Intelligence in Medicine, 149, 102814.
- Reddy, R., Almeida, L., Kurunathan, H., Gaitán, M. G., Santos, P. M., & Tovar, E. (2024). Worst-Case Response Time of Mixed Vehicles at Complex Intersections. IEEE Open Journal of Intelligent Transportation Systems, 5, 186–201.
- Rocha, J., Cardoso Pereira, S., Campilho, A., & Mendonça, A. M. (2023). Confident-CAM: Improving Heat Map Interpretation in Chest X-Ray Image Classification. 2023 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), 4116–4123.
- Sá Gomes, J., & Ferreira da Silva, A. (2024). TinyGS vs. SatNOGS: A Comparative Analysis of Open-Source Satellite Ground Station Networks. Telecom, 5(1), 228–254.

- Santarromana, R., Abdulla, A., Mendonça, J., Granger Morgan, M., Russo, M., & Haakonsen, R. (2024). Assessing the costs and benefits of dynamically positioned floating wind turbines to enable expanded deployment. Energy Conversion and Management, 306, 118301.

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