Carnegie Mellon Portugal

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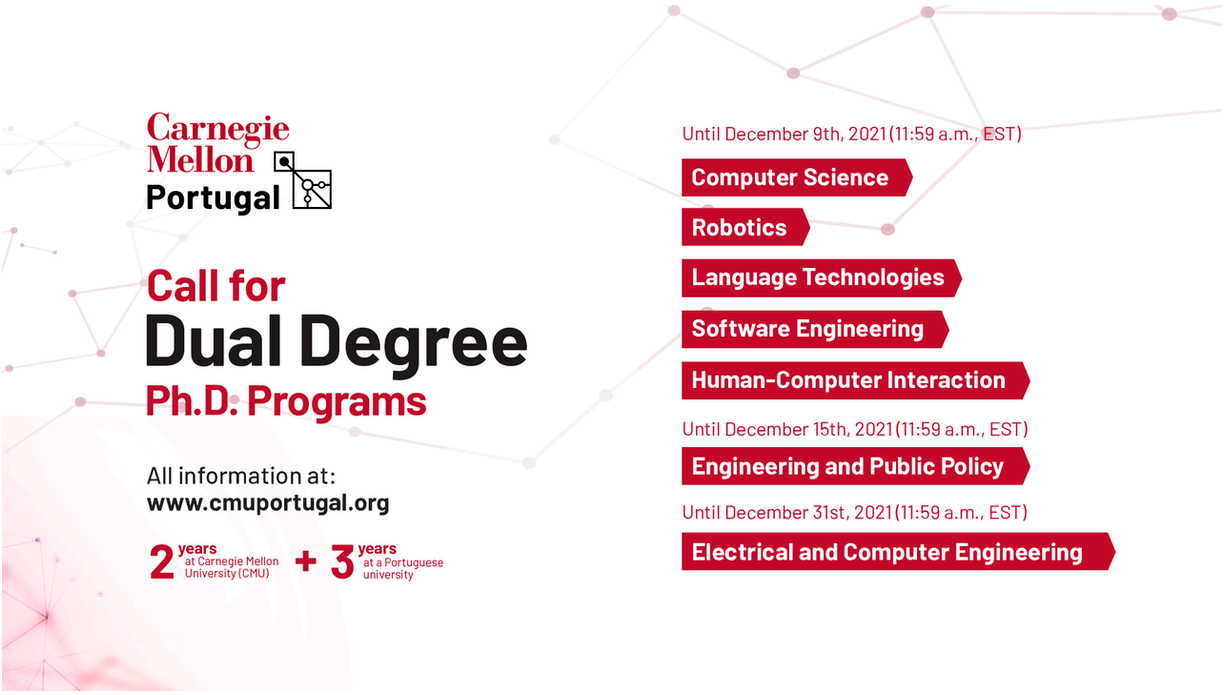
News from the Fence



Last days to apply to our 2021 Call for up to 10 Dual Degree Ph.D. Scholarships

The CMU Portugal Program and FCT have an open Call for up to 10 Dual Degree Ph.D. scholarships for the 2022/2023 academic year in ICT related areas. Applications to these scholarships are still open and must be submitted online directly at CMU.

All information available on our website.

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Minister Manuel Heitor at CMU with Portuguese Delegation

On November 29th and 30th, the Portuguese Minister of Science, Technology, and Higher Education, Manuel Heitor, will visit CMU campus in Pittsburgh. The official visit will create an opportunity to discuss CMU Portugal initiatives to foster industry-science relationships as agents of change, focusing on data economy and research for social and economic impact. The afternoon of the first day will be marked by three workshops addressing the Program's Large-



Scale Collaborative Research Projects topics: Understanding conversations to improve productivity; Vehicular technologies, waste management and safer forests; and Improving machine learning and applications in healthcare.

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Between December 2021 and September 2022, CMU Portugal Program and the Large Scale Collaborative project coordination of AIDA will host a series of five (5) webinars on improving 5G risk management, gathering leading experts from academia to industry involved with the project.

The first Webinar will take place on December 7 at 3pm (UTC). It will be hosted by Carlos Martins and Pedro Fidalgo from the project's leading company Mobileum and moderated by José Orlando Pereira (Senior Researcher at INESC TEC and Professor at UMinho).

Registration is free but mandatory to access the Zoom Webinar.

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CMU Portugal Info session gathers over 90 potential Ph.D. candidates

This year's edition of the CMU Portugal online Session "How to apply for a CMU Portugal Dual-Degree Ph.D. Scholarships" gathered on October 27th, 94 participants from all over the globe. This was an excellent opportunity for candidates to gather information on how to successfully submit their application to a CMU Portugal scholarship. For those who have missed it, the CMU Portugal FAQ page is permanently updated.



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CMU Portugal welcomes its Ph.D. students on Pittsburgh Campus

On October 7th, the CMU Portugal Program held its 2021 Fall Welcome Back Lunch on campus at Carnegie Mellon University. Dual Degree students from five different departments attended the event including Computer Science, Language Technologies Institute, Software Engineering, Electrical and Computer Engineering and Engineering and Public Policy. The CMU Portugal Program currently has 18 students on CMU's campus this semester, one of the largest numbers ever.

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In the Media: Interview with Ana Paiva – "90 Segundos de Ciência"

Ana Paiva, Full Professor at Instituto Superior Técnico and GAIPS Group Coordinator from INESC ID, is currently leading the CMU Portugal Exploratory Research Project (ERP) "AGENTS – Automatic generation of humor for social robots", which started under CMU Portugal 2019 ERP Call. The researcher was interviewed by 90 Segundos de Ciência about her research that is working to give robots the ability to generate humor and improve their interaction with humans.



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Inside Story: Maria Casimiro Summer Internship at Feedzai

Maria da Loura Casimiro is a CMU Portugal Dual Degree Ph.D. student in Software Engineering at INESC-ID/Instituto Superior Técnico and the Institute for Software Research at CMU. She started her Ph.D. in 2019 shortly after completing a MSc. in Electrical and Computer Engineering. This year, she presented her work on “Self-Adaptive Machine Learning” under a meeting promoted by CMU Portugal Large Scale Project CAMELOT led by Feedzai and ended up being invited to do a summer internship at the ICT Company.

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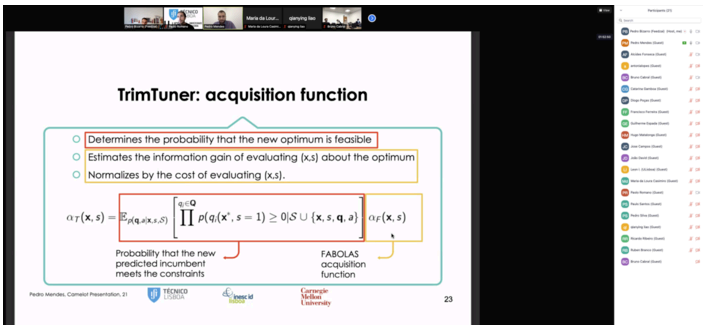

CAMELOT online Workshop highlighted the results of the first year of project

The CMU Portugal Large Scale Project CAMELOT ,organized on October 25th its first annual Workshop for an overview and balance of the first half of the project which was launched at the beginning of 2020 and will convene through 2022.

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Manuela Veloso awarded the title of Doctor Honoris Causa by the University of Bordeaux

Manuela Veloso, a world renowned computer scientist and AI researcher and a Carnegie Mellon Portugal Faculty member since the launch of the partnership in 2006, was awarded the title of Doctor Honoris Causa by the University of Bordeaux (Université de Bordeaux). In her acceptance speech, Manuela Veloso spoke about how she began doing research in AI and robotics, and highlighted the launch of RoboCup to foster worldwide research and competitions in robot soccer, an innovative initiative started in the mid 1990s, for which she was a co-founder.





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CMU Portugal among the Winners of the Babbage Innovation Awards 2021

The inaugural edition of the Babbage Industrial Innovation Policy Awards 2021 supported by the University of Cambridge, counted with two winners from the CMU Portugal Program. Jaime Bonnin Roca, Alumnus in Engineering and Public Policy (EPP) was one of the three “joint winners” and the work of Afonso Amaral, Dual Degree Ph.D student in EPP, was one of the seven “highly commended” papers.

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Upcoming events

- AIDA Series on 5G Risk Management I Webinar #1 I Online I December 7
- Nuclear Innovation Prize for excellence in nuclear innovation I December 15 I online
- Deadline to apply to CMU Portugal Dual Degree PhD. Programs in: Computer Science, Human-Computer-Interaction, Language Technologies, Robotics, and Software Engineering I December 9, 2021 (11:59 a.m., EST) I online
- Deadline to apply to CMU Portugal Dual Degree Ph.D. Program in Engineering and Public Policy: December 15, 2021 (11:59 a.m., EST)I online
- Deadline to apply to CMU Portugal Dual Degree Ph.D. Program in Electrical and Computer Engineering I December 31, 2021 (11:59 a.m., EST) I online
- SCEE 2022 - 14th International Conference on Scientific Computing in Electrical Engineering I March 7 - 10, Amsterdam
- Call for Advanced Computing Projects - 2nd edition - Opening for Submissions on A1 – Preparatory Access and A0 I April 28, 2022

CMU Portugal Publications

Papers and Conference papers

- Albuquerque, T., Moreira, A., & Cardoso, J. S. (2021). Deep Ordinal Focus Assessment for Whole Slide Images. 2021 IEEE/CVF International Conference on Computer Vision Workshops (ICCVW), 657–663.
- Almeida, A., Brás, S., Oliveira, I., & Sargento, S. (2022). Vehicular traffic flow prediction using deployed traffic counters in a city. Future Generation Computer Systems, 128, 429–442.
- Bacelar Almeida, J. C., Barbosa, M., Barthe, G., Pacheco, H., Pereira, V., & Portela, B. (2021). A Formal Treatment of the Role of Verified Compilers in Secure Computation. Journal of Logical and Algebraic Methods in Programming, 100736.
- Carneiro, M. R., Majidi, C., & Tavakoli, M. (2021). Dielectric Elastomer Actuators with Biphasic Ag–EGaIn Electrodes. Advanced Engineering Materials, 2100953.
- Carreira, C., Ferreira, J. F., Mendes, A., & Christin, N. (2021). Exploring Usable Security to Improve the Impact of Formal Verification: A Research Agenda. Electronic Proceedings in Theoretical Computer Science, 349, 77–84.
- Ferreira, F., Lourenco, N., Cabral, B., & Fernandes, J. P. (2021). When Two are Better Than One: Synthesizing Heavily Unbalanced Data. IEEE Access, 9, 150459–150469.
- Ferreira, M., Narayan, A., Lynce, I., Martins, R., & Sherry, J. (2021). Counterfeiting Congestion Control Algorithms. Proceedings of the Twentieth ACM Workshop on Hot Topics in Networks, 132–139.
- Giordano, A., Matthews, H. S., Baptista, P., & Fischbeck, P. (2022). Impacts of topography and weather barriers on commercial cargo bicycle energy using urban delivery crowdsourced cycling data. Sustainable Cities and Society, 76, 103326.
- Marques, H., Laranjeiro, N., Bernardino, J., Tonella Nuno Laranjeiro, P., & Bernardino jorge, J. (2021). Injecting software faults in Python applications. Empirical Software Engineering 2021 27:1, 27(1), 1–33.
- Montenegro, H., Silva, W., & Cardoso, J. S. (2021). Privacy-Preserving Generative Adversarial Network for Case-Based Explainability in Medical Image Analysis. IEEE Access, 9, 148037–148047.
- Pereira, C., Silva, P. T., Rosado, L., Mota, L., & Martins, J. (2021). The Design Thinking Process in the Development of an Intelligent Microscopic Equipment. 170–182.
- Pereira, J. D., Campos, J. R., & Vieira, M. (2021). Machine Learning to Combine Static Analysis Alerts with Software Metrics to Detect Security Vulnerabilities: An Empirical Study. 2021 17th European Dependable Computing Conference (EDCC), 1–8.
- Torquato, M., & Vieira, M. (n.d.). VM Migration Scheduling as Moving Target Defense against Memory DoS Attacks: An Empirical Study. Retrieved November 26, 2021, from https://www.linux-kvm.org/
- Venkatesh, P., Dutta, S., Mehta, N., Grover, P., & Institute, A. (2021). Can Information Flows Suggest Targets for Interventions in Neural Circuits? Accepted to the Thirty-fifth Conference on Neural Information Processing Systems (NeurIPS 2021).
- Vinagre, J., Jorge, A. M., Al-Ghossein, M., & Bifet, A. (2021). ORSUM 2021-4th workshop on online recommender systems and user modeling. RecSys 2021 - 15th ACM Conference on Recommender Systems, 792–793.

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