Carnegie Mellon Portugal

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News from the Fence

2023 CMU Portugal Doctoral Symposium: Fostering Collaboration and Building a Strong Community

The 2023 CMU Portugal Doctoral Symposium took place in December at Culturgest, Lisbon, and Scott Hall, CMU, bringing together over 80 Ph.D. students, faculty members and researchers.

The Symposium, a cornerstone of the CMU Portugal Program, provided a platform for students to engage in a collaborative exchange of ideas, building upon the success of the Program's previous Orientation days and the 2021 Doctoral Symposium. The event is a hub for fostering collaboration and expanding the network of Ph.D. candidates. Throughout the day all students had the opportunity to present their research developed under the Program and to discuss the results with their peers.






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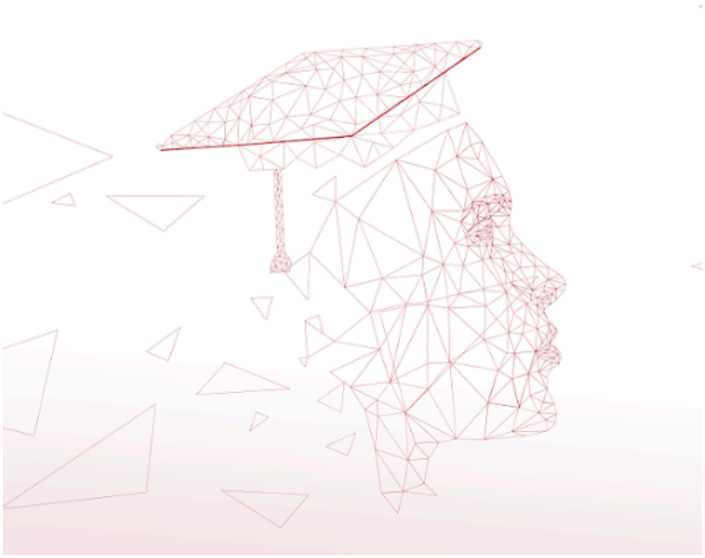
CMU Portugal welcomes 12 new Affiliated Ph.D. students for 2023/2024

A new group of 12 students was selected under the third edition of the Affiliated Ph.D. Programs initiative and will commence their studies in the 2023/24 academic year. This CMU Portugal initiative offers 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.



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Hirokazu Shirado (CMU) led @CMUPortugal Talk

On November 10th 2023, the CMU Portugal Program hosted the Talk “Experiments with Social Coordination in Hybrid Systems of Humans and Bots” with Hirokazu Shirado, Assistant Professor of the Human-Computer Interaction Institute (HCII Institute) in the School of Computer Science at CMU. This event took place at the CMU Portugal/ITI Premises at Factory (Hub Criativo do Beato) and drew an engaged audience of over 20 participants.

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CMU Portugal Fall Lunch Welcomes visitors to Pittsburgh

The CMU Portugal Program hosted a Fall Lunch on campus in the Cohon University Center at CMU, on November 8, 2023. This event brought together Dual Degree Ph.D. and Affiliated Ph.D. students currently studying at CMU as well as visitors from the Visiting Students and Visiting Faculty and Researchers Programs.

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CMU Portugal Inside Story: Cláudio Gomes experience at CMU

Cláudio Gomes is a third-year CMU Portugal Dual Degree Ph.D. student at Faculdade de Ciências da Universidade do Porto (FCUP) and the Electrical and Computer Engineering Department from Carnegie Mellon's College of Engineering. Currently in Pittsburgh, Cláudio shared his experience at CMU thus far including the most significant differences between Portugal and Pittsburgh and advice for new students coming to CMU.

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Portuguese Team TWIZ, from FCT NOVA and CMU Portugal Farfetch Chat R&D project, wins Alexa TaskBot Challenge 2

The Portuguese team TWIZ from NOVA School of Science and Technology (FCT NOVA) secured 1st Place in the Alexa TaskBot Challenge 2 and won a $500,000 prize. The winning team was led by João Magalhães, a researcher at NOVA LINCS, Professor at the Department of Informatics at FCT NOVA, and PI at CMU Portugal Farfetch Chat R&D project, and included CMU Portugal Affiliated Ph.D. students Diogo Tavares and Diogo Silva.

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ITI at Unicorn Factory Lisboa: A new Hub for Innovation and Collaboration in Interactive Technologies

The opening ceremony of the new Interactive Technologies Institute (ITI) facilities took place on October 2023 with the presence of Lisbon's Mayor, Carlos Moedas. ITI is the first research institution part of Unicorn Factory Lisboa based in Hub do Beato, an initiative by the Lisbon City Council to support startups and scaleups in creating sound products and business models, achieving sustained accelerated growth in Lisbon.

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In the Media: Feedzai's journey in Jornal de Negócios

Feedzai was featured in an article published in Jornal de Negócios with an interview with its CEO and co-founder Nuno Sebastião. As the first spin-off launched under the scope of the CMU Portugal Program, Feedzai brings together a unique blend of expertise in engineering, simulations, real-time big data processing, and high-scale distributed systems.

Full article (in Portuguese)

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Portuguese platform Unbabel secures $21 million in funding

The Portuguese Language Operations platform Unbabel, a CMU Portugal longtime partner and currently one of the Program's affiliated partners, has secured $21 million in funding.

The company was founded by Vasco Pedro, a graduate from CMU's Language Technology Institute (LTI) and CMU Portugal project post-doctoral fellow. André Martins, CMU Portugal alumni, is the company's VP of Artificial Intelligence Research. The company has also led one of CMU Portugal Large large-scale collaborative Project MAIA (2020-2023).

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AddVolt distinguished by Portugal Ventures

The Portuguese Company Addvolt, was one of the winners at the 2023 edition of the Portugal Ventures Awards, an initiative aimed at startups that stood out the most in the national entrepreneurial ecosystem in 2023.

Founded in 2014 by four alumni from the Faculty of Engineering of the University of Porto (FEUP) and launched by UPTEC, the Company was one of the selected projects of the 2014 and first edition of the CMU Portugal initiative inRES – Entrepreneurship in Residence Program – a business acceleration program for entrepreneurial teams in the area of ICT.

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Upcoming events

- Call for Papers | NATO: 75th Anniversary I January 15 I Online
- European Innovation Council online Info Day - Work Programme 2024 I January 15 I Online
- Nominations for the Balzan Prize 2024 I March 15 I Online

CMU Portugal Publications

Papers

- André, P. S., Dias, L. M. S., Correia, S. F. H., Carneiro Neto, A. N., & Ferreira, R. A. S. (2024). Artificial neural networks for predicting optical conversion efficiency in luminescent solar concentrators. Solar Energy, 268, 112290.
- Araujo, I., Antunes, N., & Vieira, M. (2023). Evaluation of Machine Learning for Intrusion Detection in Microservice Applications. 12th Latin-American Symposium on Dependable and Secure Computing, 126–135.
- Carneiro, M. R., Rosa, L., & Tavakoli, M. (2023). From Conventional Non-Conductive Foams to Soft Piezoresistive Pressure Sensors: A Low-Cost Approach to Large-Area Pressure-Mapping. 2023 IEEE SENSORS, 1–4.
- Duarte, R. de B., Han, Q., & Soares, C. (2023). Dissecting Medical Referral Mechanisms in Health Services: Role of Physician Professional Networks.
- E. Carvalho, A., Ferreira, J. F., & Portugal, D. (2024). 3D traversability analysis and path planning based on mechanical effort for UGVs in forest environments. Robotics and Autonomous Systems, 171, 104560.
- Ferreira, J. F., Portugal, D., Andrada, M. E., Machado, P., Rocha, R. P., & Peixoto, P. (2023). Sensing and Artificial Perception for Robots in Precision Forestry: A Survey. Robotics, 12(5), 139. https://doi.org/10.3390/robotics12050139
- Gonçalves, G., & Strubell, E. (2023). Understanding the Effect of Model Compression on Social Bias in Large Language Models.
- Honda, S., Fernandes, P., & Zerva, C. (2023). Context-aware Neural Machine Translation for English-Japanese Business Scene Dialogues.
- Ingelse, Leon & Hidalgo, Ignacio & Colmenar, J. & Lourenço, Nuno & Fonseca, Alcides. (2023). A Comparison of Representations in Grammar-Guided Genetic Programming in the context of Glucose Prediction in People with Diabetes. 10.21203/rs.3.rs-3596625/v1
- 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), 1.
- Mendonça, J., Pereira, P., Menezes, M., Cabarrão, V., Farinha, A. C., Moniz, H., Carvalho, J. P., Lavie, A., & Trancoso, I. (2023). Dialogue Quality and Emotion Annotations for Customer Support Conversations.
- Neves, B., Haghighi, E. D., Pereira, H. V., Costa, F., Carlos, J. S., Ferreira, D., Moreno, P., Ferreira, P. M., Machado, J., Goncalves, B., Moreira, J. M., Leite, F., & da Silva, N. A. (2023). Impact of a wearable-based physical activity and sleep intervention in

multimorbidity patients: protocol for a randomized controlled trial. BMC Geriatrics, 23(1), 853.

- Pereira, F., & Silva, C. (2024). Machine learning for monitoring and classification in inverters from solar photovoltaic energy plants. Solar Compass, 9.
- Ramos, M. M., Fernandes, P., Farinhas, A., & Martins, A. F. T. (2023). Aligning Neural Machine Translation Models: Human Feedback in Training and Inference.
- Rocha, J., Pereira, S. C., Pedrosa, J., Campilho, A., & Mendonça, A. M. (2024). STERN: Attention-driven Spatial Transformer Network for abnormality detection in chest X-ray images. Artificial Intelligence in Medicine, 147, 102737.
- Sanati, A. L., Alhais Lopes, P., Chambel, A., Silva, A. F., Oliveira, D. M., Majidi, C., de Almeida, A. T., & Tavakoli, M. (2024). Recyclable liquid metal – Graphene supercapacitor. Chemical Engineering Journal, 479, 147894.

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