Carnegie Mellon Portugal

#20 | May 2022

News from the Fence



Manuel Heitor received honorary Doctor of Science and Technology Degree from CMU

On May 13th, **Manuel Heitor received an honorary Doctor of Science and Technology degree from Carnegie Mellon University.** He also delivered the **keynote address at the Commencement ceremony** for 2020, 2021, and 2022 master's and doctoral degree graduates.

Manuel Heitor has served as Portugal's Minister for Science, Technology and Higher Education between 2015- 2022 and as the Portuguese Secretary of State of Science, Technology and Higher Education between 2005-2011. Heitor has been a longtime supporter of the CMU Portugal Program and of all its initiatives, strengthening the relationship between Carnegie Mellon and the Portuguese scientific and innovation ecosystem throughout the years.

Manuel Heitor's commencement speech, titled **"Your choice, you and the others: Networks of Opportunity and our common goods in times of uncertainty",** highlighted the importance of always being a learner, a motto that he adopted during his career.

The ceremony was preceded by a CMU Portugal Workshop and network lunch with the CMU Portugal community at CMU.

Commencement Ceremony (video)

Manuel Heitor's Commencement speech







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CMU Portugal Program at Ciência 2022

The CMU Portugal Program participated at the Encontro Ciência 2022 Summit to promote its latest initiatives to the public and present some of the research projects developed under the Program.

On May 16th, CMU Portugal hosted the **session "Knowledge Creation and Talent Development under the CMU Portugal Program"** with testimonies from five Ph.D. students and alumni who shared an enthusiastic overview of their research work and their experience under the dual-degree and affiliated Ph.D. initiatives. Throughout the event, the Program also hosted **demonstrations from three CMU Portugal projects (Safeforest, iFetch and MAIA).**









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Inês Lynce was part of the 31º Digital Business Congress by APDC

"We have to encourage young children to invest in ICT starting by maths but also support gender diversity and attract young women to this sector"
-Inês Lynce

The CMU Portugal National Co-Director, was one of the invited speakers at the 31º Digital Business Congress of APDC (Portuguese Association for the Development of Communications). The discussion panel "Get future-ready: innovation trends for your radar" started with Shivvy Jervis as keynote speaker followed by a discussion led by journalist Cristina Esteves with Inês Lynce and Bruno Casalinho from Capgemini Engineering as speakers.

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In the Media: CMU Portugal project TAMI supports results for early detection of Covid-19

Researchers at INESC TEC led a study on the use of Artificial Intelligence (AI) and Deep Learning (DL), in the complementary diagnosis of COVID-19 by Chest radiography (CXR) through deep learning. The work was recently published in the prestigious scientific journal Nature - Scientific Reports under the scope of CMU Portugal TAMI project.

Link to the Paper.

News in the media: Expresso Online, Público, Observador, SIC Notícias Online, Sapo 24, Sapo Lifestyle, Atlas Saúde, Cidade FM Online, Smooth FM Online, Diário de Notícias da Madeira, HealthNews Online, M80 Online, Notícias ao Minuto, Rádio Comercial Online, S+ Online

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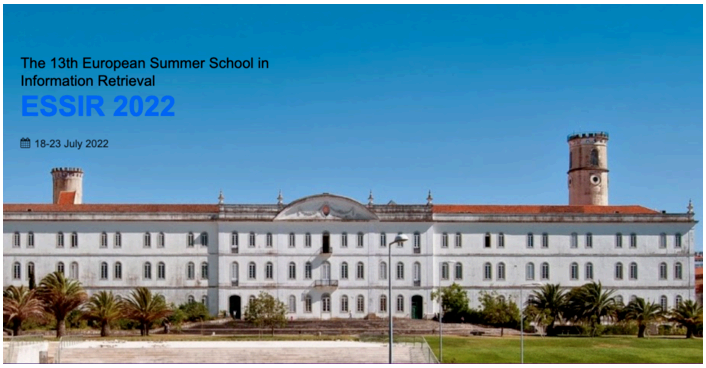
ESSIR 2022: 13th European Summer School in Information Retrieval

This year's edition of ESSIR, a 5-day teaching event on Information Retrieval (IR) and related research topics, **will take place between 18-23 July 2022.** The event is organized by NOVA LINCS (FCT UNL), INESC ID and Universidad Autónoma de Madrid with the support of the CMU Portugal Program and BCS, the Chartered Institute for IT. The



summer school is addressed to students, Master's students, Ph.D. Researchers, Industry and Academia practitioners. No deep previous knowledge of IR or ML is required, but the attendants are assumed to have some basic computer science and mathematics background.

Early Registration Deadline is June 15th

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Webinar #4 I June 8: Registrations are OPEN

"Protecting the Security of the AIDA platform and the Privacy of its Data" is the topic of the fourth session of the "AIDA Webinar Series", an initiative promoted by the CMU Portugal project AIDA with CMU Portugal support. The Webinar will take place **online on June 8 at 3pm (UTC +1)** with José Flora, (University of Coimbra) and Cláudia Brito (INESC TEC) and Justine Sherry (Carnegie Mellon University) as moderator.

This event is part of a series of 5 Webinars organized by the coordination of the Large Scale Collaborative project AIDA with CMU Portugal support, on improving 5G risk management.

Registration to access the Zoom Webinar #3 is free but mandatory.

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CMU Portugal Inside Story: Rudolph Santarromana

"I am interested in working on global problems, and so the CMU Portugal program offers me the opportunity to look through a US and EU lens at the same problems."

- Rudolph Santarromana



Rudolph Santarromana is an American CMU Portugal student in Engineering and Public Policy who started his Ph.D. in 2019. Under his Ph.D., he is working on Decarbonizing Economic Sectors supervised by Professors Joana Mendonça (IST), Granger Morgan (CMU) and Ahmed Abdulla (Carleton/CMU). He loves to play sports in his free times including golf, basketball and kickboxing and also likes reading and listening to vinyl records.

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CMU Portugal Visiting Faculty initiative resumes in 2022

CMU Portugal Visiting Faculty initiative will resume in the Summer of 2022, with a group of five faculty from Portuguese Institutions visiting Pittsburgh in the second semester. This initiative allows faculty from Portugal to be hosted at CMU to develop ICT research and reinforce cooperation between the two countries. The 5 candidates were selected in the 2020 Call for Visiting Faculty and Researchers.

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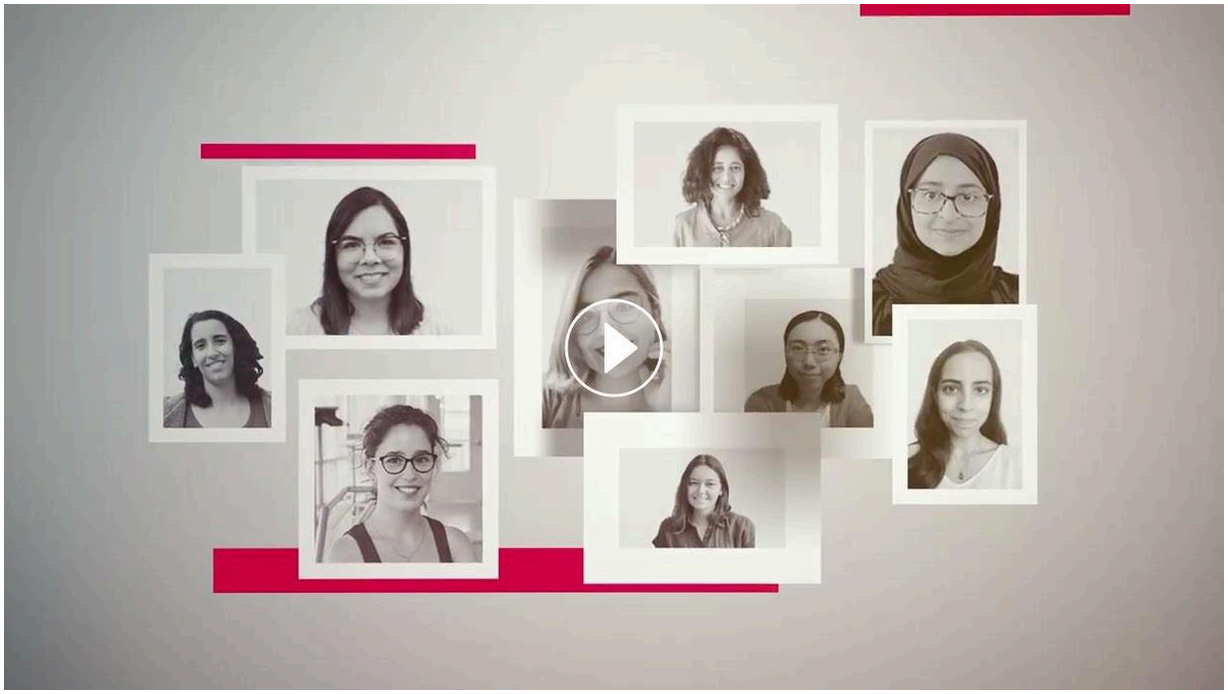
Girls in ICT Day - April 28

Under the CMU Portugal partnership, we are committed in creating an education and research ecosystem that empowers young girls in ICT, so our female students can be the example for tomorrow's girls. Here's the video that was launched on April 28th, the Girl's in ICT Day:



CMU Portugal Publications

Papers and Conference papers

- Abraray, A., Nunes, D., & Maslovski, S. (2022). Analytical and numerical modeling of reconfigurable reflecting metasurfaces with capacitive memory.
- Baraka, K., Couto, M., Melo, F. S., Paiva, A., & Veloso, M. (2022). “Sequencing Matters”: Investigating Suitable Action Sequences in Robot-Assisted Autism Therapy. Frontiers in Robotics and AI, 9, 55.
- Carneiro, M. R., Rosa, L. P., de Almeida, A. T., & Tavakoli, M. (2022). Tailor-made smart glove for robot teleoperation, using printed stretchable sensors. 2022 IEEE 5th International Conference on Soft Robotics (RoboSoft), 722–728.
- Costa, G., Lopes, P. A., Sanati, A. L., Silva, A. F., Freitas, M. C., de Almeida, A. T., Tavakoli, M., Costa, G., Lopes, P. A., Sanati, A. L., Silva, A. F., Freitas, M. C., de Almeida, A. T., & Tavakoli, M. (2022). 3D Printed Stretchable Liquid Gallium Battery. Advanced Functional Materials.
- Morais, J.B., Santiago, C., & Costeira, P. (2022). Say Yes To The Fetch: Product Retrieval on a Structured Multimodal Catalog.
- Li, J., Li, Z., Liu, X., Shen, S., & Maslovski, S. (n.d.). Active control of thermal emission by graphene-nanowire coupled plasmonic metasurfaces. Preprint.
- Li, K., Ni, W., Noor, A., & Guizani, M. (2022). Employing Intelligent Aerial Data Aggregators for the Internet of Things: Challenges and Solutions. IEEE Internet of Things Magazine, 5(1), 136–141.
- Mata, D., Silva, W., & Cardoso, J. S. (2022). Increased Robustness in Chest X-Ray Classification Through Clinical Report-Driven Regularization. 119–128.
- Oliveira, R., & Arriaga, P. (2022). A systematic review of the effects of laughter on blood pressure and heart rate variability. HUMOR, 0(0).
- Pedrosa, J., Aresta, G., Ferreira, C., Carvalho, C., Silva, J., Sousa, P., Ribeiro, L., Mendonça, A. M., & Campilho, A. (2022). Assessing clinical applicability of COVID-19 detection in chest radiography with deep learning. Scientific Reports 2022 12:1, 12(1), 1–17.
- Pedrosa, J., Sousa, P., Silva, J., Mendonça, A. M., & Campilho, A. (2022). Lesion-Based Chest Radiography Image Retrieval for Explainability in Pathology Detection. 81–94.
- Ramos, B., Pereira, T., Silva, F., Costa, J. L., & Oliveira, H. P. (2022). Differential Gene Expression Analysis of the Most Relevant Genes for Lung Cancer Prediction and Sub-type Classification. 182–191.
- Rocha, I., Azevedo, F., Carvalho, P. H., Peixoto, P. S., Segundo, M. A., & Oliveira, H. P. (2022). An Edge-Based Computer Vision Approach for Determination of Sulfonamides in Water. 415–429.
- Sanati, A. L., Chambel, A., Lopes, P. A., Nikitin, T., Fausto, R., & Tavakoli, M. (2022). Laser-Assisted Rapid Fabrication of Large-Scale Graphene Oxide Transparent Conductors. Advanced Materials Interfaces, 2102343.

Job opportunities

THREE (3) Research grants under CMU Portugal Large Scale Collaborative project IntelligentCare at INESC ID

For candidates with a BSc in Computer Engineering, Biomedical Engineering or equivalent scientific areas degree under the scope of project INTELLIGENTCARE ,which is developing a multimorbidity management decision support system focused on the patient's vision of value.

Institution: INESC ID (Lisbon)

Duration: 3 months starting in June 2022 (Renewable, if the candidates are enrolled in a MSc program or in a non-degree programme);

Aplication Deadline: 03/06/2022

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Upcoming events

- LASIGE Fórum - PhD Student Commission I Location TBA I June 7
- AIDA Series on 5G Risk Management I Webinar #4 I Online I June 8
- FCT Call for joint research proposals between Portugal - France (2023-2024): Pessoa Program I Applications Deadline: June 9
- Early Bird Deadline to the ESSIR 2022 Summer School I Online I June 15
- FCT Special Support "Verão com Ciência" I Applications Deadline: June 16
- VISUM 2022 Summer School / iFetch Mentorship Program I July 18-23 I INESC TEC - Porto
- 2022 Lisbon Machine Learning Summer School (LxMLS 2022) I July 24-29, 2022 I Técnico, Lisboa
- FLAD research internships in the USA for master's students, doctoral students, and junior researchers I Applications Deadline: Oct. 31

Stay in touch! Share your news with the CMU Portugal community and let us know what is happening by sending an e-mail to info@cmuportugal.org.

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