Carnegie Mellon Portugal

#15 | Sep. 2021

News from the Fence



CMU Portugal welcomes its first group of Affiliated Ph.D. candidates

The CMU Portugal Program is thrilled to welcome **12 new students to its CMU Portugal Affiliated Ph.D. Programs Initiative**. Launched for the first time in the 2021/2022 Academic year, this new initiative offers Ph.D. scholarships in selected cutting-edge areas of Information and Communication Technologies (ICT), related to the scope of the CMU Portugal Program. The new Ph.Ds will be hosted by a Portuguese University and can conduct a research period at Carnegie Mellon up to one year. Upon the Ph.D. conclusion, candidates will be awarded a degree by the Portuguese host University.

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José M.F. Moura awarded with prestigious Doctor Honoris Causa by Universidade de Lisboa

In a Ceremony held on September 13th, José M.F. Moura was awarded the title of Doctor Honoris Causa by Universidade de Lisboa, after a proposal by Técnico, where he studied and lectured. The prestigious award recognizes his academic, scientific and professional outstanding contributions, worldwide and with a strong impact in Portugal. José M.F. Moura is CMU Portugal Director at Carnegie Mellon since its launch in 2006 and a key supporter to its foundation and throughout the years.

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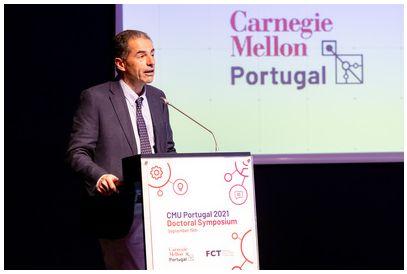
2021 Doctoral Symposium, a platform to present the research work developed under the Program

The 2021 CMU Portugal Doctoral Symposium **took place on September 15th at Pavilhão do Conhecimento in Lisbon and gathered 24 Ph.D. students who presented their research work developed under the CMU Portugal Program.** The main goal of this new initiative was to foster a supportive community of Ph.D. candidates and promote a collaborative research environment by providing participants the opportunity to present their work plans and discuss the results with their peers. The six parallel sessions were chaired by a diverse group including CMU Portugal alumni, scientific directors, and leading experts from the Program´s affiliated companies.

The welcome session counted with the participation of Rosalia Vargas (President of Agência Ciência Viva), Inês Lynce (on behalf of CMU Portugal Directors), José Paulo Esperança (Vice President of Fundação para a Ciência e a Tecnologia), and Manuel Heitor (Minister for Science, Technology and Higher Education).



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IST Distinguished Lecture by CMU Portugal Director José M.F. Moura

After being awarded on September 13th the title of Doctor Honoris Causa by Universidade de Lisboa, José M.F. Moura shared his life experience and knowledge at a Distinguished Lecture held at Técnico. Under the title “A story that weaves itself by detecting data on hard drives” the Philip L. and Marsha Dowd University Professor of Electrical and Computer Engineering at Carnegie Mellon University, shared the story around one of his inventions and won over the audience with his expertise.




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CMU Portugal Welcome Back Lunch at CMU (October 7th, 2021)

The CMU Portugal Program is organizing a Welcome Back Lunch addressed to all students currently in Pittsburgh. At the moment there are 17 active students attending the Fall semester at CMU, one of the largest numbers ever. This networking event intends to foster a supportive community of Ph.D. candidates while providing participants the opportunity to connect and share experiences with their peers who are also on campus.

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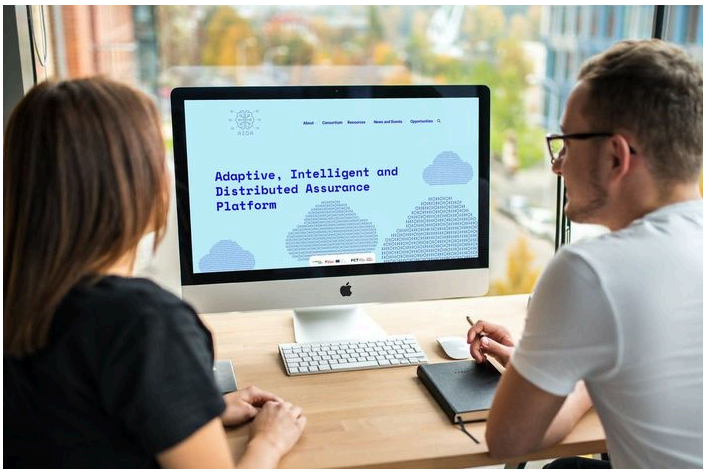

AIDA, an effective solution to manage risk management in companies

AIDA is a CMU Collaborative Large Scale project launched in 2020 with the main goal to improve the RAID platform used by Mobileum for integrated risk management in companies. After a thorough evaluation process, AIDA was one of the 12 research projects selected for a 3 years' funding. More about the project in our article with Carlos Martins, Head of Engineering at Mobileum and Christos Faloutsos, Professor at CMU's CS Department.

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CMU Portugal project WoW published on Nature Communications Journal

A team of researchers from Faculdade de Ciências e Tecnologia da Universidade de Coimbra (FCTUC) has developed a new technique to produce microchip integrated stretchable circuits, in a low cost and scalable way. This technique, published in the prestigious scientific journal Nature Communications, was developed under CMU Portugal Large Scale project WoW at Instituto de Sistemas e Robótica (ISR) da Universidade de Coimbra, led by CMU Portugal Faculty & Researcher Mahmoud Tavakoli.

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Inês Lynce Talk at "Explain it like I'm 5" by Instituto Superior Técnico

On Saturday, 25th September, CMU Portugal National Co-Director Inês Lynce, President of INESC-ID and Full Professor at Técnico, was the speaker of Técnico's initiative "Explica-me como se tivesse 5 anos" / "Explain it like I'm 5", a monthly talk organized by Técnico where scientists explain to small kids topics in their area of expertise.

Video Link

Upcoming events

- MSCA Postdoctoral Fellowships 2021 I Deadline for applications: October 12
- 2021 Champalimaud Research Symposium (CRS21) under the topic Dialogues on Neural and Machine Intelligence I October 13 - 15 I Hybrid format: Champalimaud Centre for the Unknown (CCU) + Online
- FIC.A - International Science Festival I 12-17 October 2021 I Marquês de Pombal Palace and Gardens (Oeiras)
- Nuclear Innovation Prize (EURATOM-2021-NUCLEAR-Prize) I Deadline for applications: October 20 I online
- UT Austin 2021 Annual Conference I October 20 I Hybrid event: FEUP + online
- IN CONFERENCE INEGI 2021 I October 21 I Alfândega do Porto, Congress Center
- FLAD Atlantic Security Award I Deadline for proposals: October 30 I Online
- 3rd Edition of StartHealth@ULisboa (acceleration program promoted by redeSaúde) I November 5 - 29
- 8º Fórum de Gestão de Dados de Investigação (Research Data Management Forum) I November 25-26 I Universidade de Coimbra
- Call for Advanced Computing Projects - 2nd edition - Opening for Submissions on A1 – Preparatory Access and A0 I April 28, 2022

CMU Portugal Publications

Papers

- "LSTM-characterized Deep Reinforcement Learning for Continuous Flight Control and Resource Allocation in UAV-assisted Sensor Network". Li K.; Ni W., Dressler F. I IEEE Internet of Things Journal I 2021
- "Model-Based Performability and Dependability Evaluation of a System with VM Migration as Rejuvenation in the Presence of Bursty Workloads". Torquato M., Maciel P., Vieira M. I Journal of Network and Systems Management volume 30 I 2021
- "Reversible polymer-gel transition for ultra-stretchable chip-integrated circuits through self-soldering and self-coating and self-healing". Lopes P.A., Santos B., Almeida A.T., Tavakoli M. I Nature Communications 12, Article number: 4666 I 2021

Conference Papers

- "Deep Q-Networks for Aerial Data Collection in Multi-UAV-Assisted Wireless Sensor Networks". Emami Y., Wei B., Li K., Ni W., Tovar E. I IWCMC 2021 I 2021
- "Entheos: A Multimodal Dataset for Studying Enthusiasm". Viegas C., Alikhani M. I Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021 I 2021
- "Horus: Non-Intrusive Causal Analysis of Distributed Systems Logs". Neves F., Machado N., Vilaça R., Pereira J. I 51st Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN) I 2021
- "HyperJump: Accelerating HyperBand via Risk Modelling". Mendes P., Casimiro M., Romano P. I Preprint. I 2021
- "Including Enthusiasm in Human–AI Communication". Viegas C., Alikhani M. I Fukuchiyama City '21: International Conference on Intelligent Virtual Agent I 2021
- "Machine Learning to Combine Static Analysis Alerts with Software Metrics to Detect Security Vulnerabilities: An Empirical Study". Pereira J., Campos J., Vieira M. I 17th European Dependable Computing Conference (EDCC) I 2021
- "Measuring and Increasing Context Usage in Context-Aware Machine Translation". Patrick Fernandes P., Yin K., Neubig G., Martins A. I ACL 2021 I 2021
- "ORSUM 2021 - 4th Workshop on Online Recommender Systems and User Modeling". Vinagre J., Jorge A.M., Al-Ghossein M., Bifet A. I Fifthteenth ACM Conference on Recommender Systems (RecSys '21) I 202
- "Rotation Averaging in a Split Second: A Primal-Dual Method and a Closed-Form for Cycle Graphs". Moreira G., Marques M., Costeira J.P. I Accepted for oral presentation at the ICCV2021 Conference I 11-17 October 2021
- "Self-Adaptation for Machine Learning Based Systems". Casimiro M., Romano P., Garlan D., Moreno G., Kang E., Klein M. I SAML'21: International Workshop on Software Architecture and Machine Learning, Sweden I 2021
- "Uncertainty-Aware Machine Translation Evaluation". Glushkova T., Zerva C., Rei R., Martins A. I Accepted for publication: Findings of EMNLP 2021 I 2021
- "VM Migration Scheduling as Moving Target Defense against Memory DoS Attacks: An Empirical Study". Torquato M., Vieira M. I 26th IEEE Symposium on Computers and Communications (ISCC 2021) I 2021
- "When Does Translation Require Context? A Data-driven, Multilingual Exploration". Yin K., Fernandes P., Martins A., Neubig G. I Preprint - Submitted on 15 Sep 2021

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