

World-class Research and Graduate Education in Close Connection with the Portuguese Industry.



UTEN Portugal Workshop

Knowledge Management Impels Economic Development

The University Technology Enterprise Network (UTEN) Workshop, organized by UTEN Portugal and the Carnegie Mellon|Portugal Program, was held at Instituto Pedro Nunes in Coimbra, Portugal, on November 8th - 10th, 2009. The main topic of discussion was "Experiencing Technology Transfer with Carnegie Mellon."

During two days, speakers from Carnegie Mellon University and workshop participants discussed what technology transfer is. They brainstormed on the different ways to accomplish it, how to set up good practices, and how to establish a procedure that can protect the University and the researcher giving confidence and increasing value to both.

"Technology Transfer is the transfer of intellectual assets generated from research activities from inside the university to outside the university," explained Tara Branstad, associate director, Center for Technology Transfer and Enterprise Creation (CTTEC). Branstad emphasized that this process should be simple, transparent, equal for everyone, and well known by the academic community. Under this theme, Tim McNulty, associate vice-president for Government Relations at Carnegie Mellon University, accentuated "the role of the Carnegie Mellon | Portugal Program because it brings together research, education, and commercialization," which are the main goals to establish an economic development mission. In his presentation, McNulty gave an overview of the University and its Economic Development Strategy, which addresses the University's overall approach to regional economic development. McNulty stated that the "future value is on regions working together."

"To create and disseminate knowledge and art through research and creative inquiry, teaching, learning, and to transfer intellectual and artistic products to enhance society in meaningful and sustainable ways." Carnegie Mellon University Mission Statement

To present the point of view from the Portuguese company Portugal Telecom Inovação, Marcelino Pousa, director of Planning Control and Resources, and Isilda Braga da Costa, legal adviser at Portugal Telecom Inovação, elaborated on the importance of technology transfer to their company. They emphasized that "tech transfer is fundamental for the activity of the company," because it impels the development of new products and services. "With the universities we make technology transfer mainly through and by people," said Marcelino Pousa. To Braga da Costa "technology transfer is achieved if we can bring the researchers to the company."

Branstad and Mary Beth Shaw, assistant general counsel, Carnegie Mellon Office of General Counsel, discussed the Technology Transfer Office (TTO) and the University's Legal Department. During their presentations, they provided a general overview of the structure, competencies, philosophy, performance, and the interface between the two offices and other departments within the University.

Branstad explained the innovative ecosystem of Carnegie Mellon, saying that "the role is to facilitate and accelerate the transfer of intellectual assets, negotiate and execute commercial agreements, encourage faculty entrepreneurship and the creation of start-up companies, and manage the intellectual assets of the university." Shaw spoke about intellectual property (IP), and the basic principles of IP policy, which includes "academic freedom, traditional rights retained by faculty, student ownership of intellectual property, and faculty and student as creators of IP."

In attendance at the UTEN Workshop "Experiencing Technology: Collaborating with Carnegie Mellon" were more than 40 professionals who work in the Technology Transfer Area at Portuguese universities and companies.

The mission of the Carnegie Mellon | Portugal Partnership is to create new knowledge in key focused areas of information and communications technologies by means of cutting-edge research, world-class graduate education, and a close connection with Portuguese Industry, thus placing Portugal at the forefront of Science and Innovation.

FCT Fundação para a Ciência e a Tecnologia

MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

Faculty Exchange Program Encourages Cultural Immersion

The Carnegie Mellon | Portugal Program has formalized a Faculty Exchange Program for faculty members in Portugal and at Carnegie Mellon University that aims to accelerate the adoption of best practices through cultural immersion.

This program builds on the experience of the Universidade de Coimbra and the Institute for Software Research (ISR), Department in the School of Computer Science at Carnegie Mellon University. Every semester for the last seven semesters a faculty researcher from the Universidade de Coimbra has spent the whole semester at Carnegie Mellon, in ISR.

The new Faculty Exchange Program will provide an opportunity for faculty to adopt, adapt, propagate, and consolidate the best practices used at top universities. Participants from Portugal and Carnegie Mellon will receive a mobility scholarship, funded by the Fundação para a Ciência e a Tecnologia, to cover living expenses.

During the exchange, Portuguese faculty will be exposed to the same environment and working conditions as their colleagues at Carnegie Mellon University and vice versa. The exchange participants will be hosted by a Carnegie Mellon department and receive a formal appointment as "visiting faculty." They will participate in a research group, become a member of the teaching faculty (undergraduate and graduate), and will be actively engaged in other university activities. Through the exchange program, faculty will spend at least one semester at Carnegie Mellon and will conduct research, review educational practices, and experience the culture of the university.

Since the inception of the Carnegie Mellon | Portugal Program in 2006, collaboration between faculty and students has consistently increased. The establishment of the Faculty Exchange Program will enhance collaborative activity. For additional information visit www.cmuportugal.org.

Visiting ISQ Representatives Assess Developing Technologies

Instituto de Soldadura e Qualidade (ISQ) representatives, Liliana Silva and Rui Louro, have spent this fall attending Civil and Environmental Engineering classes and project meetings to learn more about technologies that are being developed on the Carnegie Mellon campus.



ISQ, an Applied Research Institute partner of the Carnegie Mellon | Portugal Program, is a private organization that works on technical inspection, training, consulting, research and development. Silva works for ISQ's Non-Destructive Testing (NDT) Technologies Department, which employs technologies like ultrasounds and digital radiography to inspect a structure without having to take it apart. Louro works in the Calculation Department, which he describes as "design evaluation." Areas in this department include Engineering Consulting, Checking of Projects, and Evaluation of Structures. The goal of the ISQ representatives has been to observe and assess new technologies, and determine whether they might be of use to Portuguese industry. As part of their visit, Silva and Louro have sat in on classes in data management, data acquisition, and probability and statistics.



To get a first-hand perspective of different early-stage technologies, Louro and Silva have also attended many project meetings. One project, called "Instrumental Pipeline Initiative," headed by José Fonseca de Moura, involves the development of a new application of time reversal techniques to the inspection of natural gas pipelines. This project directly relates to Silva's work in Non-Destructive Testing technologies, and both Silva and Louro find it promising. "It will probably be a standard in 20 years," says Louro of the novel application. Early in the semester, Louro had also been following another project, led by Lúcio Soibelman, that relates to the standardization of computational implementation of building norms. Different nations and organizations have different building norms, which can become a problem in international projects where structures have to satisfy different criteria. "This is not easy," says Louro, "because the norm has hundreds of pages and there is no expert in all the building standards; there are experts in portions [of the building standards]. This can be a serious problem."

Computational format, he explains, makes it easier to see differences between standards and verify designs against those codes. Although this project is in the very early stages of development, Louro says that it has huge potential.

"I think it will have a world-wide impact if it comes to fruition," says Louro. As part of this initiative, Silva and Louro have sent monthly reports on their observations, and will be debriefed for their opinions upon return to Portugal. Most projects are still in the very early stages of development, but Louro and Silva are hopeful of their eventual benefit to Portuguese industry. "While the technology is being developed," says Louro, "you cannot pick it up and implement it right away. At a later date, we may end up using these technologies."

Project "Automotive Mobility and Future Services" HCI Student Wins International Competition

Nuno Laginha, a Professional Masters student in the Human-Computer Interaction program (MHCI) in the Carnegie Mellon | Portugal Program, was recently recognized by the Service Design Network and Volkswagen AG for his project "Automotive Mobility and Future Services."

On October 26th and 27th, 2009, Laginha attended the Service Design Conference in Madeira, Portugal, where he was awarded first place in the Service Design Competition. The conference was hosted by the Service Design Network (SDN) and sponsored by Volkswagen. SDN was founded in 2004 by the Köln International School of Design, Carnegie Mellon University, Linköpings Universitet, Politecnico de Milano / Domus Academy, and the agency Spirit of Creation. It is a collaborative organization whose goals are to establish and maintain a body of knowledge in the field of service design.

As stated on the SDN website, the purpose of the competition was to find new services that address today's changing mobility needs. Project submissions were to consider questions such as "Which social aspects of mobile lifestyles and (virtual) communities benefit from automotive services? Which services do you miss in vehicles and what would such services look and feel like?"



For Laginha, the most enriching aspect of the project was the user feedback and the field research he used to formulate his design solutions. He says that the research and methods he applied during the design process allowed him to "uncover relevant information and find opportunities instead of assuming them."

"We go to the field in different stages of the process to investigate, evaluate, design, iterate, and implement," says Laginha. "Through these processes, I was able to extract the driver's real needs and work on them to create sustainable and supportive solutions."

Laginha says that his coursework in the MHCI program gave him "the needed tools to successfully solve this design problem." He also points out that the program has consistently provided him with the opportunity to enact the same design process that he applied to his Service Design Competition project.



"The MHCI allow us to develop the capacity to deal with large amounts of data and stay focused on what is relevant regarding the final objective," says Laginha.

"This Master program presents us challenges of this caliber daily," he says. "We develop the capacity to deal with large amounts of data and stay focused on what is relevant regarding the final objective."

"I am grateful that companies like Volkswagen AG recognize more than ever the importance of HCI," says Laginha, "and especially Service Design: Developing products and services for the future."

As first prize winner, Laginha was awarded 1000€ as well as an all-expenses-paid trip to the conference in Madeira, where he had the opportunity to present his project. In addition, Laginha was introduced to participating Service Design practitioners, academics, and service-focused companies from all over the world. His project will also be featured in a future of Touchpoint, the Service Design Journal.

Laginha holds a BA in Communication and Multimedia Design from the Instituto Politécnico de Coimbra, and is concluding his Professional Masters in human-computer interaction (HCI).

Upcoming Events

Holiday Party and Portuguese Dinner Buffet

December 11th, 2009

Place: Pittsburgh [more](#)

Software Engineering Seminar

December 12th, 2009

Place: Lisbon and Porto, Portugal [more](#)

Carnegie Mellon | Portugal Program: Security and Dependability Academy

December 14-15th, 2009

Place: Faculdade de Ciências, Universidade de Lisboa, Portugal [more](#)

**Admission Phase of the
Carnegie Mellon | Portugal
Dual Degree Ph.D. and Master programs**
<http://www.cmuportugal.org>

Moments

Portuguese Tradition of Saint Martin's Magusto in Pittsburgh

On November 11th, 2009, the Ph.D. and professional master students enrolled in the Carnegie Mellon | Portugal Program celebrated the Portuguese tradition of Saint Martin's **Magusto** in Pittsburgh.



Organized by ICTI@CMU and CMUPA-CMU Portuguese Students Association, this event was held in the Newell Simon Plaza, at Carnegie Mellon University.

The St. Martin's Day is commonly associated with the celebration of the maturation of the year's wine. Traditionally it is the first day when the new wine can be tasted. It is celebrated eating roasted chestnuts and drinking a local light alcoholic beverage, called água-pé, or the stronger jeropiga.

Program in the Portuguese Media

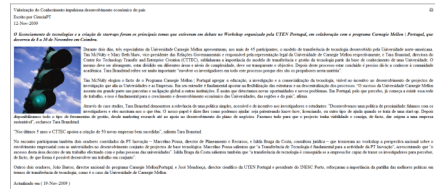
Valuing Knowledge stimulates economic development of the country

In Cienciapt, November, 2009 [read](#)

"Portugal is winning an innovation culture"

Interview with João Barros, National Director of the Carnegie Mellon|Portugal Program

In Jornal de Notícias, October, 2009 [read](#)



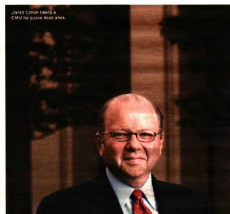
Carnegie Mellon quer continuar em Portugal

Jared Cohon, presidente da CMU, diz que o envolvimento da indústria no programa é fundamental.

PRÉCIO BARRAS

Não é suficiente ter, que o programa Carnegie Mellon|Portugal está a ser ganho, porque não há uma coisa assim de actualidade, é necessário desenvolver

com o conhecimento tecnológico que nos dá. É como vê a relação entre a indústria e as universidades



Carnegie Mellon wants to remain in Portugal Interview with Jared Cohon, president of Carnegie Mellon University

In Diário Económico, September, 2009 [read](#)

[Read more](#)

Mark your calendars

Industry Forum and Diploma Ceremony will take place in February 2010

The Carnegie Mellon | Portugal first Industry Forum and Diploma Ceremony will be held on February 22nd, 2010 at Universidade de Coimbra, Portugal. This ceremony will celebrate the achievements of the 2008 and 2009 graduates and foster a closer relationship with the Industrial affiliates.

During the 2010 Diploma Ceremony, the combined achievements of the Professional Masters graduates of December 2008 and December, 2009, will be celebrated in a joint ceremony in which dual degrees will be bestowed upon the graduates of the following collaborative programs: Professional Master of Human-Computer Interaction (HCI), Universidade da Madeira and Carnegie Mellon University; Professional Master of Information Networking (MSIN), Universidade de Aveiro and Carnegie Mellon University; Professional Master of Information Technology and Information Security (MSIT-IS), Universidade de Lisboa and Carnegie Mellon University; Professional Master of Software Engineering (MSE), Universidade de Coimbra and Carnegie Mellon University. Updates will be posted to the Carnegie Mellon|Portugal website at www.cmuportugal.org.

<http://twitter.com/cmuportugal> <http://cmuportugal.blogspot.com/>
www.facebook.com/

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