

CARNEGIE
MELLON
PORTUGAL
PROGRAM

REPORT
PARTICIPATION IN THE FUTURE INTERNET WEEK
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Information and Communication Technologies Institute
Carnegie Mellon | PORTUGAL
AN INTERNATIONAL PARTNERSHIP

FCT
Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

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I. Introduction

With the goal of promoting the projects in Information and Communication Technologies (ICT) developed within the partnership and given the relevance of this event in the European efforts in ICT, the Carnegie Mellon Portugal program promoted a strong Portuguese presence as a stand in the Future Internet Week event (www.fi-week.eu), held in Ghent, Belgium. This stand allowed the researchers involved in the research projects from the 1st Call of the program to participate in the event by showing demos of their projects.

João Costa Seco, from the Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, showed a demo of the Interfaces project, whose goal is to develop new techniques for enforcing security, integrity, and correctness requirements on distributed extensible web-based applications. Pedro Bizarro, from the Faculdade de Ciências e Tecnologia da Universidade de Coimbra, was there to present the Aeminium project and also Feedzai, one of the startups launched within the Program. In the Aeminium project the objective is to write programs for parallel processors in a simple and probably correct way. Tech startup Feedzai offers a product that allows high performance real time data processing and analysis. Fausto Vieira, from the Instituto de Telecomunicações, showed to the participants in this exhibition the technology that is behind the Vital Responder project and also talked about the impact of this research project in the work of the emergency professionals. In the future, emergency professionals will be able to use a t-shirt with health and gps sensors which will help them in their work. Ricardo Moreira, from the Universidade de Aveiro, showed a demo of the Drive-In project, which goal is to investigate how vehicle-to-vehicle communication can improve the user experience and the overall efficiency of vehicle and road utilization.

The Future Internet Week gathered more than 2000 participants (entrepreneurs, researchers, project managers, experts on telecommunications and information technologies, and politicians) from all over Europe in back-to-back conferences, meetings and workshops related to the different topics of interest to the organizations involved and their stakeholders, namely: ServiceWave conference; IPv6 Workshop; Living Labs and Smart Cities: Open Innovation for the Future Internet; Open Government preconference; Future Internet Research and Experimentation (FIRE) Conference; Standardization workshop; iMinds; Future Internet Assembly. A common denominator of the week was that internet-based services are a key driver of growth for the ICT industry and that a pull-approach in R&D is crucial to further enhance the competitive position of Europe in the world.

Number of exhibitors (booths): 52

Number of Participants: about 2000

Number of participants in the ICT Portugal stand: about 80

Merchandising: Brochure about the 10 research projects from the 1st Call

Website of the Event: www.fi-week.eu

Carnegie Mellon Portugal Team at the event: Carlos Freire and Alexandra Carvalho Vieira

II. Researchers Reflect on their Experience at the ICT Portugal stand

Project: Vital Responder project

Researcher: Fausto Vieira, Instituto de Telecomunicações

“The participation in this event was very important to acquaint a very broad state-of-the-art of the Future Internet in Portugal, especially those projects that are underway. The contacts made can be crucial to the internationalization of national projects to a European level, especially the projects of partnerships like Carnegie Mellon and MIT Portugal Portugal. The IBBT, the event organizer, is an institute which supports research, international collaboration and the creation of consortia in the areas of "Culture & Media, eHealth, ICT Green, Mobility & Logistics. The IBBT is the focal point of excellence to start cooperation with institutes and universities in the Flemish area of Belgium, and additionally actively supports the development of European projects. The number of companies which participate at the event exceeded expectations and several contacts were made to promote industrial partnerships and technology transfer resulting from ongoing projects.”

Project: INTERFACES project

Researcher: João Costa Seco, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa

“The INTERFACES project, developed under the Carnegie Mellon Portugal Program, is coordinated by the CITI, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa (FCT UNL). This project aims to develop new tools to build application software for the Internet safer and more robust, more cost effectively. The techniques that are carried out, some already published in top international conferences, led to the first practical results, shown openly on the ICT Portugal stand. In particular the team INTERFACES has been developing, in partnership with the multinational industrial partner OutSystems SA, a development system for Web applications that automatically ensures data security without human intervention by detecting the errors of the programmers. The presence on a forum like Future Internet Week is an excellent opportunity to disseminate the results achieved, and so far we obtained a very positive feedback and established some contacts, confirming the high potential and innovative nature of the work, as well as the alignment of our research with the trends and directions of current industry and European research focus in ICT.”

Project: Drive-In project

Researcher: Ricardo Moreira, Universidade de Aveiro

“The FI-Week has been, as expected, a good opportunity to learn about a significant number of *Future-Internet*-related projects that will probably, in the near future, take part in everyone's daily life. Simultaneously, it served as a platform to help promoting a number of projects managed by ICT Portugal, with special focus in the project I am working in (Drive-In). The latter was one of the main objectives of my/our participation in the event and there is the feeling that the message has been properly passed and many other participants and participant entities were/became interested in the projects being developed.”

Project: Feedzai and Aeminium project

Researcher: Pedro Bizarro, Faculdade de Ciências e Tecnologia da Universidade de Coimbra

FeedZai Pulse (TM) is a high-performance data processing engine for real-time information developed by FeedZai Lda, a spin-off from the University of Coimbra. Pulse can be used in

mission critical systems such as energy monitoring systems, bank transaction systems, or telecommunications to monitor and detect unexpected levels of, e.g., energy consumption, number of failed bank transactions, or number of dropped phone calls. Since Pulse will interface with sophisticated IT systems, participating in events such as the Future Internet Conference Week (FI-Week) is crucial to design a system that will be in line with the most advanced and expected developments in future Internet and Business-to-Business systems. As expected, the FI-Week, was a well attended event, with state-of-the-art projects and interesting researchers. The event was useful to demonstrate Pulse to potential clients and was useful to discover learn from and engage with potential partners and fellow researchers. It is very important that the Carnegie Mellon Portugal program keeps on supporting the participation of Portuguese research in events like this.

III. Visitors of the ICT Portugal Stand

During the Future Internet Week, the ICT Portugal stand was visited by more than 80 people. The presence of the ICT Portugal stand gave an opportunity to present the research projects carried out in the scope of the Carnegie Mellon Portugal program, but also served as a platform for several Portuguese researchers, that were participating in the event independently from the stand, to meet and exchange ideas and knowledge. For example, Pedro Bizarro was able to join two goals during this event: to be present at the ServiceWave Conference, where he organized one of the sessions, and to be at the ICT Portugal stand to show the potential of the Feedzai Company, and to explain the importance of the Aeminium project to the software developers. The list below includes some of the people that interacted in the ICT Portugal stand.

Adam Olszewski

PSNC Relations Officer, Poznan
Supercomputing and Networking Center,
wklaster.pl – ICT Research Driven Cluster

Álvaro Oliveira

President, Alfamicro

Ana Ponte

International Affairs Officer, Knowledge
Society Agency (UMIC)

Aurelian Mihai Stanescu

Ph.D. , University “Politeknica” of
Bucharest

Carmelo Zaccone

Expert en telecommunications, Agence
Wallonne des Télécommunications

Diogo Ferreira

Ph.D. Student, Faculdade de Ciências da
Universidade do Porto, and researcher
from the Instituto de Telecomunicações

Erik Mannens

Project Manager, IBBT

José Van Ooteghem

Board Members – External Relations,
Forum for European ICT Professionals

José Ignacio Blanco

EU Project Advisor, Iplus|F

Jan Van Herbruggen

President, Multicap - wireless solutions

M. Dolores Ordonez

International Head of Unit, Prodigy
Consultores

Mário Campolargo

Principal Scientific Officer with the
European Commission DG INFSO
(Information Society)

Nic Vandendriessche

Vice-President, Rmoni - wireless
monitoring

Luís Magalhães

President, Knowledge Society Agency
(UMIC)

Opher Yaron

Senior Researcher, Universiteit Gent

Sampo Kellomaki

Partner, Wizi

Rui Aguiar

Associate professor, Universidade de
Aveiro and researcher at the Instituto de
Telecomunicações

Vânia Gonçalves

Researcher, Media, Market & Innovation,
IBBT-SMIT, VUB

IV. Media Strategy

Press Release sent to the Portuguese Media

Delegação portuguesa mostra projectos de investigação em evento mundial

Universidades portuguesas marcam presença na FI-Week

Uma delegação de investigadores de várias universidades portuguesas está presente na Semana Internacional sobre a Internet do Futuro – Future Internet Conference Week – que começa hoje e termina no dia 17 de Dezembro em Ghent, Bélgica. O evento reúne mais de 2000 especialistas na área de tecnologias de informação e comunicação de todo o mundo.

João Costa Seco, da Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Pedro Bizarro, da Faculdade de Ciências e Tecnologia da Universidade de Coimbra, Fausto Vieira, do Instituto de Telecomunicações, e Ricardo Moreira, da Universidade de Aveiro, vão mostrar as potencialidades de alguns dos projectos de investigação que estão a ser desenvolvidos no âmbito do Programa Carnegie Mellon Portugal, financiado pela Fundação para a Ciência e a Tecnologia.

O projecto INTERFACES que visa o desenvolvimento de novas técnicas que possibilitem reforçar a segurança e a integridade das aplicações extensíveis da Internet, vai ser apresentado por João Costa Seco. Este projecto está a ser desenvolvido em conjunto com a empresa OutSystems.

Pedro Bizarro vai fazer a apresentação das potencialidades do projecto AEMINIUM, desenvolvido em parceria com a NOVABASE, que pretende responder à questão: Como é que vários computadores interligados podem trabalhar em simultâneo de uma forma eficaz? Pedro Bizarro vai também apresentar a primeira startup criada no âmbito do Programa: a Feedzai.

A demonstração do projecto Vital Responder que pretende avaliar os níveis de stress, em tempo real, de profissionais de emergência como polícias, bombeiros e paramédicos, através da utilização de vestuário inteligente, que permite monitorizar desde o ritmo cardíaco aos níveis de oxigénio no sangue, vai ser efectuada pelo investigador do Instituto de Telecomunicações Fausto Vieira. Este projecto está a ser desenvolvido com a empresa Biodevices.

Ricardo Moreira, da Universidade de Aveiro, vai fazer a apresentação do projecto DRIVE-IN que tem como objectivo analisar de que forma a comunicação entre veículos pode ajudar a melhorar a experiência do condutor e a utilização das infra-estruturas rodoviárias, para diminuir o trânsito e prevenir acidentes. A NDrive, a Geolink e a Raditaxis são as empresas parceiras.

Ao longo desta Semana Internacional sobre a Internet do Futuro têm lugar workshops, conferências e apresentações relacionadas com as diferentes facetas e aplicações da internet e das redes de informação, como por exemplo as smart cities, a gestão de redes de energia, a implicação da utilização de novos sistemas na economia, entre outros temas.

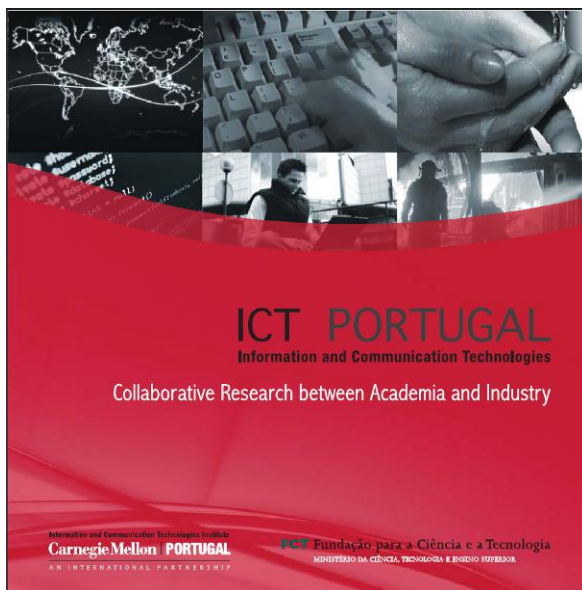
Através da presença neste evento mundial, o Programa Carnegie Mellon Portugal, financiado pela Fundação para a Ciência e a Tecnologia, proporciona aos investigadores e às suas instituições uma maior visibilidade e reconhecimento da investigação desenvolvida em Portugal. No mesmo sentido, contribui activamente para potenciar a criação de novas parcerias e projectos que consolidem a investigação nesta área tão determinante para o futuro, e que se assume como uma das áreas estratégicas do programa, na qual Portugal pode desenvolver vantagens comparativas.

Publications in the media: Diário Económico (daily newspaper), Fibra Online, Mundo Universitário (online)

During the event two Portuguese researchers – João Costa Seco and Fausto Vieira - were interviewed by the media team from the organization of the event. Video available at <http://www.fi-week.eu/2010/12/15/what-to-expect-from-the-future-internet-conference-week/>

a. Merchandising

Specifically for the Future Internet Week event, it was produced a brochure entitled ICT Portugal – Collaborative Research between Academia and Industry, about the 10 research projects approved in the first call launched by the Fundação para a Ciência e a Tecnologia, in the scope of the Carnegie Mellon Portugal Program. This brochure allows a quick snapshot on the 10 research projects, namely, the focus of the research carried out and the identification of the academic partners and companies involved.



Cover



Back cover

V. Pictures



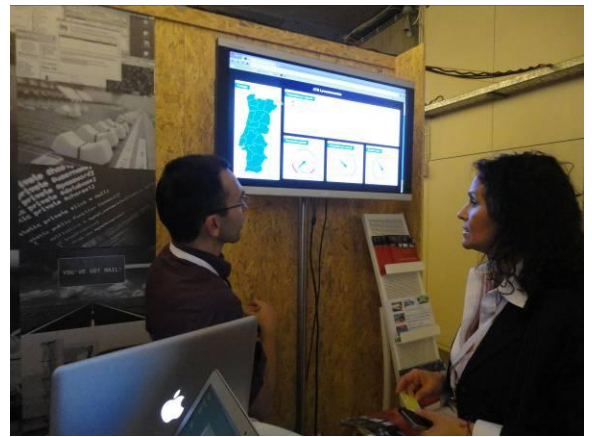
Fausto Vieira (center), researcher at the Instituto de Telecomunicações, explains the Vital Responder project to Mário Campolargo (left), principal scientific officer with the European Commission DG INFSO, and to Carlos Freire (right), executive director of the Carnegie Mellon Portugal Program.



João Costa Seco at the ICT Portugal stand.



Fausto Vieira, Ricardo Moreira and Diogo Ferreira at the ICT Portugal stand.



Pedro Bizarro showing a Feedzai demo.



A group of people in the ICT Portugal stand.



A group of people in the ICT Portugal stand.