TECHNOLOGY PLATFORM FOR CLOUD DATA MANAGEMENT

DAMA UPC takes part in CoherentPaaS, a European project within Seventh Framework Programme. The aim of the project is to develop a technology platform for cloud data management, including NoSQL stores such as key-value and graph databases, SQL databases with in-memory and column-oriented databases, hybrid systems such as SQL engines over key-value stores, and complex event processing data management systems. All of these systems can be programmed using a common query language. In addition, a scalable transaction processing system will provide holistic coherence across data stores. The project’s results could simplify the development and increase the quality of cloud applications using one query language with holistic coherence.

OBSEA AT COSMOCAIXA BARCELONA

The OBSEA seafloor observatory, which was set up by SARTI UPC 4 km off the coast of Vilanova i la Geltrú, is represented in the exhibition ‘Mediterrani: el nostre mar com mai l’havies vist’ (The Mediterranean: our sea as you’ve never seen it before) at CosmoCaixa Barcelona. An interactive tool can be used to find out about the observatory’s activities and to view the seafloor in real time. The exhibition was opened on 10 December and will run all year.

BIDIRECTIONAL THREE-PHASE POWER CONVERTER FOR A MICROGRID

CITCEA UPC has designed and built a bidirectional three-phase power converter to be used between a battery or supercapacitor energy storage system and an experimental microgrid. This converter enables private power generation, storage and consumption to be integrated into the public grid. Thus, private generation can be considered by the public system as an intelligent, single entity that can supply itself independently, but can also support the grid, supply and consume energy, depending on the needs and/or shortfalls of the public electricity system. The power that is generated is integrated close to where it is consumed, which helps to relieve the power transmission system. The device was developed as part of a tender issued by CENER. CITCEA UPC has a replica of this device in its lab.
TWO NEW CENTRES JOIN CIT UPC

In November 2013, two new UPC research and technology transfer Centres became members of CIT UPC, leading to an increase in technology capabilities, particularly in the ICT area, and providing thus new more opportunities to collaborate with companies:

- **InLAb UPC**, with over 30 years of experience and a team of 70 persons, develops applications and services based on the most innovative information technologies and creates tailor-made solutions for companies and private and public institutions.

- **TALP UPC**, Center for Language and Speech Technologies and Applications which has a team of over 50 people, is specialised in the automatic processing of written and spoken natural language. Its aim is to help overcome language barriers to improve access to information systems.

CIT UPC AT SEAT’S FORSCHUNGSTAG 2013

On 11th December, the Innovation Day 2013 Forschungstag was held at SEAT’s Technical Centre. As executives from the Volkswagen Group Research Centre took part at the event, SEAT Technical Center arranged a meeting in which university and research centres presented their technological capabilities applicable for automotive companies. Six UPC Centres (MCIA, LACAN, INNOTEX, CCP, INLAB and WNG) and the SEAT-UPC Chair took part. Working meetings were held with heads of SEAT and the Volkswagen Group, to identify opportunities for university-industry collaboration in areas of materials and processes, electricity, electronics and connectivity, mobility and simulation (CFD/CSM).

UNIVERSITY SPIN-OFFS: FROM MYTH TO REALITY (in Spanish)

Seguramente, el concepto que cuesta más explicar fuera del entorno de la transferencia de tecnología, dentro y fuera de ... see more

 Further information on events: www.cit.upc.edu/en/calendar

Contact us! We aim to be a bridge of contact for all those who work in research and innovation. Feel free to participate by sending your news, comments, needs or any other relevant information that you want to share.

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STUDY OF VIBRATIONS FROM BARCELONA METRO’S LINE 9

The Acoustic and Mechanical Engineering Laboratory (LEAM UPC) and the Research Group on Vibrations and Theory and Analysis of Machines have studied vibrations produced by the Barcelona Metro’s Line 9 inside tunnels and in buildings at street level, as well as the vibration behaviour of the entire infrastructure.

PITEC REPORT ON CORPORATE FUNDING AND HUMAN CAPITAL, 2013

The ICONO Observatory of the Spanish Foundation for Science and Technology (FECYT) has published the PITEC Report on Corporate Funding and Human Capital, 2011 (in Spanish). This statistical study monitors the innovative activities of Spanish companies. More than 460 variables in over 10,000 companies are analysed. The report shows that the companies that invested in innovation had smaller drops in sales than others. In general, companies in the services sector were those with the largest cuts in spending on innovation.

METAL-INNOVA PROJECT SUPPORTS COMPANIES WITHIN METAL SECTOR

Metal-innova project remains open to the participation of companies in the metal sector interested in developing innovation projects. Support and personalised services are offered.

Further information.