



Universidade do Minho  
Escola de Engenharia



# ENGINews

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## Highlight

### **EEUM is officially part of the INESC TEC**

Guimarães, 12<sup>th</sup> October



The Research Centre HASLab – High Assurance Software Laboratory, of the EEUM, which was already a privileged partner of the INESC TEC, is now part of the complex of INESC TEC, one of the main national Associate Laboratories, with 12 R&D units and 600 researchers.

The protocol was signed by the Rector of the UMinho, Professor António M. Cunha, and the President of the INESC TEC, Professor José Manuel Mendonça, during the celebration of the 37<sup>th</sup> Anniversary of the EEUM.

The brand new INESC TEC-UMinho confirms the natural partnership of researchers, after two decades of joint projects, with the MAP-I doctoral programme between the universities of Minho, Aveiro and Porto. Professor Jorge Sousa Pinto, one of the HASLab's coordinators, refers: "Our skills and active contribution to the area of information technologies will bring attention to this Associate Laboratory, which has critical mass and a multidisciplinary experience in managing science". The agreement will involve cooperation in the development of R&D projects, services and advanced consulting.

The EEUM is now represented in four Associate Laboratories in the country: the HASLab with INESC TEC, the Centre of Biological Engineering (CEB) associated to the IBB – Institute for Biotechnology and Bioengineering, the Institute of Polymers and Composites (IPC) associated to the I3N – Institute for Nanostructures, Nanomodelling and Nanofabrication, and the 3B's Research Group in Biomaterials, Biodegradables and Biomimetics which, together with the ICVS – Life and Health Sciences Research Institute also from the UMinho, forms the ICVS/3B's Associate Laboratory.

## Awards

### **Best Theoretical Research Paper Award to paper by Paulo Flores**

Santander, Spain, 18<sup>th</sup> to 22<sup>nd</sup> September



The paper entitled "Study of the contact force model on the dynamic response of a four-bar mechanism with clearance joints", co-written by Paulo Flores, professor at the Department of Mechanical Engineering (DEM) of the EEUM, has been considered the best theoretical research paper at the *4th European Conference on Mechanism Science* (EUCOMES 2012). This scientific meeting gathers the main European research specialists in the area of Machine and Mechanism Science.

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## Researchers of the Algoritmi Reserch Centre awarded by the *International Association of Engineers*

London, July



The researchers Sérgio Sousa, Eusébio Nunes, Isabel Lopes e Humberto Teixeira, of the research group SEORR – *Systems Engineering, Optimization and Operations Research* – of the Algoritmi Research Centre, of the EEUM, are the authors of two awarded papers by the International Association of Engineers (IAENG). The papers have been granted Merit Certificates at the 2012 International Conference of Manufacturing Engineering and Engineering Management, which took place at the *World Congress of Engineering*. Two of the three papers presented by the researcher Sérgio Sousa have been awarded, namely “Data Quality Assessment in Performance Measurement” and “Diagnosis of Quality Problems in a Footwear SME”.

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## Students of the EEUM awarded the *Fraunhofer Portugal Challenge 2012*



Two students from the EEUM are included in the six finalists of the Fraunhofer Portugal Challenge. The challenge is an idea contest promoted by Fraunhofer AICOS aiming at motivating and rewarding research of practical utility, through the attribution of a scientific prize to MSc/PhD Students and Researchers from Portuguese Universities in the areas of ICT, Multimedia and other related Sciences.

The contestants, a PhD student, of the MAP-i – Doctoral Programme in Computer Science, and a MSc student, from the MSc in Biomedical Engineering, stood out for the quantity and quality of presented ideas. There is a total of 9000 euros to distribute among the winners.

In the 2011 edition of the competition, two students of the EEUM were also in the finals: Waldir Pimenta (MSc) e Rui Barbosa (PhD).

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## Robotics of the EEUM is a finalist of the *Best Jubilee Video Award*

Algarve, 7<sup>th</sup> to 12<sup>th</sup> October



A project which connects robotic to neuroscience, developed at the UMinho, is one of the six finalists nominated for the Best Jubilee Video Award, granted in the framework of the prestigious 25<sup>th</sup> International Conference on Intelligent Robots and Systems (IEEE IROS 2012). The project “The Power of Prediction: Robots that Read Intentions”, was coordinated by Estela Bicho, Professor at the Department of Industrial Electronics (DEI) of the EEUM and involved the DEI, the Algoritmi Research Centre of the EEUM, the Department of Mathematics and Applications and the Centre of Mathematics of the UMinho, in partnership with the Radboud University Nijmegen (The Netherlands) and the Technical University of Munich (Germany). The award aims at recognizing the most outstanding IROS Jubilee Video, based on technical merit, completeness of the historical overview on the specific milestone/contribution of robotics worldwide in the past 25 years.

### Visit from delegation of the Universitas Indonesia

Campus of Azurém, 24<sup>th</sup> September



Aiming at strengthening the already established cooperation agreements with Universitas Indonesia (UI), the EEUM received the visit of a delegation from this university, constituted by the Dean of the Faculty of Engineering of the UI, Professor Dedi Priadi, the Associate Dean for Student, Alumni Relation and Networking affairs, Professor Anondho Widjanarko, and the Director of the Architecture Department of the UI, Dr. Kemas Ridwan Kurniawan.

The visit took place in the framework of a shared programme of the EEUM and the School of Architecture of the UMinho. The visit programme allowed the delegation to visit the city of Guimarães, European Capital of Culture 2012, the *Campus* of Azurém, and the main facilities of both Schools, including a visit to the UMinho's interface companies, the Centre for Computer Graphics (CCG), the Centre for Waste Valorization (CVR) and the Pole for Innovation in Polymer Engineering (PIEP).

### MUM announces new European Microbial DNA Bank Network



The MUM – Micoteca da Universidade do Minho, located at the Centre for Biological Engineering (CEB) of the EEUM, announced a new service, the European Microbial DNA Bank Network. Through this network, DNA bank material and partners' databases were linked and made accessible via a central Web portal, providing DNA samples from complementary collections. The new network is intended to serve the interests of recipients and donors of DNA samples to create added value through cooperation and cumulative characterization of genomic data. The project was developed in the framework of the EMbaRC - European Consortium of Microbial Resources Centres.

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### CMU Portugal extended for five more years



The Portuguese Foundation for Science and Technology (FCT) announced that the scientific programme Carnegie Mellon Portugal will be renovated until 2017 and will have an annual funding of 4 million euros. The agreement, which guarantees the continuity of the partnership between the North-American university and several Portuguese institutions, aims at supporting research and advanced training programmes in the main areas of Information and Communication Technologies, focusing on innovation and entrepreneurship.

At the EEUM, the CMU Portugal partnership allows the offer of the MAP-i – Doctoral programme in Computer Science, and MAP-tele – Doctoral Programme in Telecommunications.

**ENGINews** is a publication of all members of the EEUM.

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