



13th RoboCity2030 Workshop*

EU Projects Results in the Frame of the Madrid's Regional Robotic Hub RoboCity2030

December 11th, 2015, Madrid

RoboCity2030 is one of the biggest robotic long term hubs in Europe working since 2006. The consortium is formed by the six leading universities and R&D centres of Madrid with more than 100 researchers in the field, half of them PhDs. It is funded by the Community of Madrid and cofunded by Structural Funds of the European Union.

We promote robotics science and technologies in numerous human-centred applications in metropolitan areas, as well as in country sites. The strong synergies created by the main partners and more than 20 associated partners, from industry, allow the development of dozens of innovative projects and knowledge transfer programs. Several results from these R&D activities have generated added-value products, technologies, software and services.

The excellence of the consortium is confirmed by the involvement with the Seventh Framework Programme (FP7) and Horizon 2020 programme and participation in a large number of European projects in the robotic field.

This workshop is focused on the results of the following EU projects:

- MONARCH (<http://monarch-fp7.eu>)
- TIRAMISU (<http://www.fp7-tiramisu.eu>)
- STAMS (<http://stams-rfcs.eu/>)
- ROBO-SPECT (<http://www.robo-spect.eu/>)
- STAMAS (<http://www.stamas.eu/>)
- CROPS (<http://www.crops-robots.eu>)
- RHEA (<http://www.rhea-project.eu/>)
- HEPHESTOS (<http://www.hephestosproject.eu/>)
- COGWATCH (<http://www.cogwatch.eu/>)

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13th WORKSHOP

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Leganés, December 11th, 2015

Aula de Grado Auditorio, Universidad Carlos III de Madrid

(Registration: <http://www.robocity2030.org/events/event/13th-robocity2030-workshop/>)

8:30	9:00	REGISTRATION	
OPENING SESSION			
9:00	9:30	<p>José Manuel Torralba, General Director of Universities and Research of the Community of Madrid Fernando Martín Galende, EU Programmes Division - Spanish ICT National Contact Point – Horizon 2020 Virginia Moreno Bonilla - General Director of New Technologies and Innovation, City of Leganes Daniel Segovia, Director of the Polytechnic High School of the UC3M Mayoralty of Leganés Carlos Balaguer, Coordinator of the RoboCity2030 Programme</p>	
INVITED TALK			
9:30	10:00	<p>Fernando Martín Galende, EU Programmes Division - Spanish ICT National Contact Point – Horizon 2020 <i>Next Call 3 ICT-Robotics in Horizon2020</i></p>	
SESSION 1		TITLE	AUTHORS
10:00	10:20	Cogwatch: Towards a Home-Based and Personalised Cognitive Rehabilitation	<i>J. M. Cogollor, J. Rojo, J. M. Sebastián, M. Ferre, R. Aracil</i> UPM
10:20	10:40	Sensing within the European Project Crops: Results and Conclusions	<i>R. Fernández, H. Montes, C. Salinas, M. Armada</i> CSIC
10:40	11:00	Hephestos: Hard Material Small-Batch Industrial Machining Robot	<i>E. Gambao, A. Brunete, M. Hernando, C. Mateo</i> UPM
11:00	11:30	COFFEE BREAK	

SESSION 2		TITLE	AUTHORS
11:30	11:50	Human-Robot Interaction in the Monarch Project	<i>V. González-Pacheco, A. Castro-González, M. Malfaz, M. A. Salichs</i> UC3M
11:50	12:10	Pisa: Flexible Assembly Systems through Workplace-Sharing and Time-Sharing Human Machine Cooperation	<i>E. Gambao, M. Hernando, A. Brunete</i> UPM
12:10	12:30	Aerial Mission in RHEA Project	<i>J. del Cerro, A. Barrientos, J. Valente, D. Sanz</i> UPM
12:30	12:50	Effective Integration of Aerial and Ground Autonomous Vehicles to Address Agricultural Tasks	<i>J. Conesa-Muñoz, A. Ribeiro</i> CSIC
13:00	14:30	LUNCH	
SESSION 3		TITLE	AUTHORS
14:30	14:50	The UC3M Contribution to “Stamas. Smart Technology For Artificial Muscle Applications In Space.”	<i>F. Martín, A. Villoslada, M. Collado, C. Rivera, L. Moreno</i> UC3M
14:50	15:10	TIRAMISU European Project: Design and Implementation of Tools for Humanitarian Demining	<i>H. Montes, R. Fernández, M. Armada</i> CSIC
15:10	15:30	The Robo-Spect EU Project: Autonomous Robotic Tunnel Inspection	<i>R. Montero, J. G. Vítores, E. Menéndez, C. Balaguer</i> UC3M
15:30	15:50	Robotics Flooded Mines Inspection and Monitoring	<i>C. Balaguer, A. Jardón, O. Álvarez</i> UC3M
16:00	17:00	CONCLUSIONS AND CLOSSING	



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