

## Ubisense Press Release - European FP7 research project REPLICATOR

Date: 06-18-2009 04:39 PM CET

Category: [Science & Education](#)

Press release from: [Ubisense](#)



Ubisense and Partners pioneer use of Precise Real-time location in development of self-organising and learning robots as a member FP7 REPLICATOR program

Ubisense, the World Leader in Precise Real Time Location Systems, and partners of European FP7 research project REPLICATOR reach major milestone to localise self-organising robots

“We are very excited at having reached this major milestone in the program”, says Jaouhar Jemai, Advanced Research Program Director of Ubisense, “being part of such a well co-ordinated multi-disciplinary team is a real privilege for Ubisense, and I congratulate the program management for making it so seamless”.

Ubisense is working with several partners from academic and industrial institutions on a leading edge European research project within the seventh framework program (FP7).

REPLICATOR (Robotic Evolutionary Self-Programming and Self-Assembling Organisms: [www.replicators.eu](http://www.replicators.eu))

The partners include:

1. University of Stuttgart (Germany)
2. University of Graz (Austria)
3. Sheffield Hallam University (United Kingdom)
4. University of Karlsruhe (Germany)
5. Scuola Superiore Sant'Anna (Italy)
6. Fraunhofer Gesellschaft (Germany)
7. Institut Mikroelektronických Aplikací (Czech Republic)
8. Almende BV (Netherlands)

The work consists in the development of miniaturized, autonomous, self-organizing and learning robots (~9x8x10 cm). These have the task of accurately assessing and monitoring certain environments with multiple sensors (including localisation from Ubisense). These robots can then communicate via the ZigBee network in order to exchange data.

The work has been already demonstrated at the FP7 IT fair held in Lyon in November 2008 and has, moreover, produced the following publications:

1. “Evolutionary Robotics: The Next-Generation-Platform for On-line and On-board Artificial Evolution”, IEEE Congress on evolutionary computations, Norway, May 2009,

[www.cec-2009.org/programme/paperList.shtml#paper430](http://www.cec-2009.org/programme/paperList.shtml#paper430)

2. “Advances in components and embedded systems technologies”, Exhibition at ICT in Lyon (2008: Europe's biggest research event for information and communication technologies) [ec.europa.eu/information\\_society/events/ict/2008/exhibiti...](http://ec.europa.eu/information_society/events/ict/2008/exhibiti...)  
See also [www.euron.org/miscdocs/news/ICT-2008\\_Sessions\\_on\\_Robotics...](http://www.euron.org/miscdocs/news/ICT-2008_Sessions_on_Robotics...)

3. The partners of the consortium are about to complete a book “Symbiotic Multirobot Organisms”, Springer book, in Press, 2010

“Engagement with such advanced research aimed at the Industrial environment keeps us at the forefront of innovation”, says Dr Andy Ward, CTO of Ubisense. “Being involved in such applied research allows us to look forward to how we can evolve our technology to better serve our customers in the commercialisation of these great developments”.

#### About Ubisense

Ubisense is the world leader in Precise Real Time Location Systems, providing enterprise business automation by tracking people and assets with unmatched accuracy, and enabling visibility and control of previously intractable business challenges. With over 350 customers in 25 countries, Ubisense is revolutionising industries today, visit: [www.ubisense.net](http://www.ubisense.net)

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