

## EE Department Seminars

Tuesday 31.12.2013, 11:00

Yorgo I Stefanopulos Meeting Lounge (KB 217)

### **REWIRE: Rehabilitative Wayout In Responsive Home Environments**

***Elif Sürer***

*Università di Milano*

"REWIRE project proposes to develop, integrate and field test an innovative virtual reality based rehabilitation platform, aimed at allowing patients, discharged from the hospital, to continue intensive rehabilitation at home under remote monitoring by the hospital itself. The main idea is to assemble off the self components in a robust and reliable way to get a system to be deployed massively at the patients' homes, enabling home-based effective rehabilitation to improve disabilities and functions. The REWIRE platform will collect a huge amount of valuable data on daily life activity and rehabilitation progression for all the patients served. The analysis of these data will offer to health providers the possibility to monitor after-stroke patient's evolution on a large scale, being able to anticipate trends and properly distribute their resources."

#### **Short Bio:**

Elif Surer received her B.Sc. and M.Sc. degrees in Computer Engineering from Bogazici University, in 2005 and 2007. She received her Ph.D. degree in Biomedical Engineering from University of Bologna in 2011. From 2011 to 2013, she was a post-doctoral research fellow at University of Sassari. From February 2013, she is continuing her research at University of Milan's Laboratory of Applied Intelligent Systems, where she is developing video games for the rehabilitation of Neglect patients, as part of REWIRE project..