

Digital Single Market

Challenges for human-centered assistive neuro-robotic devices: the experience of the MUNDUS project

Events 13/11/2012 Toledo, Spain

A workshop entitled 'Challenges for human centered assistive neuro-robotic devices: the experience of the MUNDUS project' will take place on 13 November 2012 in Toledo, Spain. The 'Multimodal Neuroprosthesis for Daily Upper Limb Support' (MUNDUS) project is an assistive framework for recovering direct interaction capability of severely motor impaired people based on arm reaching and hand function. Most of the solutions provided by Assistive Technology for supporting independent life of severely impaired people completely substitute the natural interaction with world, reducing their acceptance. Human dignity and self-esteem are more preserved when restoring missing functions with devices safeguarding self perception and first hand interaction while guaranteeing independent living. MUNDUS uses any residual control of the end-user, thus it is suitable for long term utilization in daily activities. Sensors, actuators and control solutions adapt to the level of severity or progression of the disease allowing the disabled person to interact voluntarily with naturality and at maximum information rate. MUNDUS targets are the neurodegenerative and genetic neuromuscular diseases and high level Spinal Cord Injury. MUNDUS is a small or medium scale focused research project (STREP) funded by the 7th Framework Program for Research.

Speaker

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