Barcelona Cognition, Brain and Technology

Summer School

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Research Interest:

My research focuses on integrating neuro-prosthesis with a neuromorphic coding of tactile information for restoring the sense of touch. Alongside, my research also focuses on the sensory-motor control, mainly focusing on the cognition of prosthesis arm and strategies for shared control. The dynamic factors such as slip, point of contact and stability in grasp are controlled within the prosthesis with the help of integrated perception and cognitive assisted control strategies based on machine learning and tactile feedback.

Participation at BCBT'2014:

My background study being robotic engineering, working alongside with neuroscience has been a tough call. My very little knowledge in the field of neuroscience has been a big hurdle and restricted my flexibility in the field of Neuro-Robotics. A summer school like BCBT that is focusing both on Brain and Technology had been the best way that I can imagine to start exploring this field.

BCBT'2014 Contribution for my research:

BCBT summer school has been the best decision I have taken to start learning in the field of Brain and Technology. Being a newbie, I was excited to be introduced to a variety of concepts of brain, starting from organizational structure to the state of art behavior and adapting capabilities of the brain. Being an interdisciplinary summer school, I was also introduced to the technology trying to mimic the functionality of brain. This has been a great advantage for me to understand, how it is done? And what is the state of art in this very specific field.

BCBT Summer School being integrated with hands on project had given me the maximum learning experience. I had worked along with the group of people working on "Cerebellar model to control a self-balancing robot". With the help of this project supervisors and teammates, I was initiated to understand the basic functionality of cerebellum and its role in adaptive learning.

This new and fascinating learning experience had triggered various ideas to implement and improve my research. This summer school has also boosted my confidence to work in the field of brain technologies.
The amazing organization of this summer school along with various other extra curricular activities had made this one of my best-balanced learning experience.