**Brain Computer Interfaces ? Success from the University of Pittsburgh**

**Speaker: Michael Boninger**

**CoMeT:** http://halley.exp.sis.pitt.edu/comet/presentColloquium.do?col\_id=9605

This seminar was given by Dr. Michael Boninger, a Professor from UPMC rehabilitation institute. Their work is about controlling computer system through connection with human brain directly, which partially remodel the HCI by bypassing the traditional interaction interface. Concretely, they embedded a sensor inside participant’s brain which collecting neuron activity, and then decoded neural signals and drove mechanical arm to perform the corresponding actions.

With the help of their research, disabled individuals could regain the ability of moving and sensing. Except for the value for rehabilitation, this technology could also redesign the communication between human and computer. In the future, the computer system can make responses based on human’s neural activity, without intermediate message like queries, behaviors. Though it seems kind of science fiction still, a brand-new framework between human and computer is under construction.





