

Department of Biomedical Engineering Division of Biokinesiology and Physical Therapy

Engineering Neuroscience & Health Seminar Series Presents: Dr. Michael Arbib Arbib@usc.edu	Monday December 1, 2008 4:00 p.m. Refreshments will be served 3– 4 p.m.	Locations: <i>Seminar is simultaneously presented</i>
		UPC: HNB 100 – LIVE Hedco Neurosciences Building UPC Campus Map/Directions: http://www.usc.edu/about/visit/upc/ HSC: 147 – Video Conference Center for the Health Professional HSC Campus Map/Directions: http://www.usc.edu/about/visit/hsc/

Tool Use, End-Effectors and Sequential Action

Michael Arbib (work with James Bonaiuto, Stephane Jacobs and Scott Frey)

We relate recent data on neurophysiological correlates in monkey tool use as observed in the mirror system and elsewhere to our own modeling of the mirror system and sequential action and our fMRI studies of shared activation between executing a grip with the hand and with a tool. These data and modeling efforts provide material for a critique which grounds a new, unified account of mirror neurons, sequential actions, tools, end-effectors, and the body schema.

Web Cast

<http://capture.usc.edu/college/Catalog/?cid=af180d48-ceff-42b9-a35c-eb199daed320>

Information about all seminars can be found at

<http://www-clmc.usc.edu/~heiko/ENH>