Engineering Neuroscience & Health

Department of Biomedical Engineering Division of Biokinesiology and Physical Therapy

ENH SEMINAR SERIES

Presents:

Eugene M. Izhikevich

Brain Corporation,
San Diego California

Monday
October 07, 2013
4:00 pm

Refreshments will be served: 3:30 – 4:00 pm

Spikes

Eugene M. Izhikevich, Ph.D.
Co-Founder, Chairman and CEO
Brain Corporation

Most communication in the brain is via spikes. While we understand the spike-generation mechanism of individual neurons, we fail to appreciate the spike-timing code and its role in neural computations. The speaker starts with simple models of neuronal spiking and bursting, describes small neuronal circuits that learn spike-timing code via spike-timing dependent plasticity (STDP), and finishes with biologically detailed and anatomically accurate large-scale brain models.

Locations: *Seminar is simultaneously presented*

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/

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

Information about all seminars can be found at
http://bbdl.usc.edu/ENH-Schedule.php