## EDIS 2008 satellite symposium GCOE global seminar Advances in Neuroengineering



23 Janunary, 2008

Conference Room 2, Osaka University Convention Center, Suita, Osaka, Japan Sponsored by Osaka University global COE program "Electronic Devices Innovation" (CEDI) Co-sponsored by: The Center for Advanced Medical Engineering and Informatics, Osaka University The Institute of Electrical Engineers of Japan

This EDIS 2008 satellite symposium will focus on the neuroengineering including neurophysiology and neuromorphic device, and provide an opportunity for scientists and engineers working in the field of neuroengineering to make discussion with frontiers of neuroengineering and neuroscience.

## Program

8:55-9:00	Opening remark (T. Yagi, Osaka University)
9:00-9:40	<b>T. Suzuki</b> (University of Tokyo) "Development of flexible neural probes and their applications to neuroprostheses"
9:40-10:20	R. Harrison (University of Utah) "The Utah integrated neural interface: wireless gateway to the brain"
10:30-11:00	M. Osanai (Osaka University) "Calcium imaging for investigating the spatio-temporal properties of the neural activity"
11:00-11:40	WJ. Song (Kumamoto University) "Coding and decoding of pure tones in guinea pig primary auditory cortex"
11:40-12:20	L. Cohen (Yale University) "What the nose tells the brain about odors and the first order response"
13:30-14:10	T. Tokuda (NAIST) "CMOS technology-based <i>in vivo</i> biomedical photonic devices"
14:10-14:40	<b>K. Shimonomura</b> (Osaka University) "Neuromorphic robotic vision system emulating disparity computation in visual cortex"
14:40-15:20	JK. Shin (Kyungpook National University) "Bio-inspired CMOS vision chips for edge detection"
15:40-16:20	B. Shi (Hong Kong University of Science and Technology) "Neuromorphic hardware models of visual cortical neuron populations"
16:20-17:00	I. Ohzawa (Osaka University) "Finding what high-order visual neurons are telling without prejudice"

## Venue

Osaka University Convention Center, Conference Room (Kaigi Shitsu) 2 located in SUITA campus of Osaka University. http://osaka-u.ac.jp/eng/accessmap.html (access map) http://www.osaka-u.ac.jp/eng/target/student/campus/suita.html (campus map)

## Organizer

Makoto Osanai, Associate Professor,

Division of Electrical, Electronic and Information Engineering, Graduate School of Engineering, Osaka University E-mail: osanai@eei.eng.osaka-u.ac.jp

Kazuhiro Shimonomura, Specially Appointed Assistant Professor,

The Center for Advanced Medical Engineering and Informatics, Osaka University E-mail: kazu@eei.eng.osaka-u.ac.jp

Web site of CEDI, http://www.eei.eng.osaka-u.ac.jp/gcoe/