

IEEE Workshop on Advanced NeuroTechnologies for BRAIN Initiatives

November 10-11, 2016

Sheraton San Diego Hotel and Marina, California



Tentative Program at a Glance

November 10, 2016

8:15 AM – 6:00 PM PST

Opening and Welcome Remarks

Andrew Laine, IEEE EMBS President

Paul Sajda, Chair, IEEE Brain Initiative

Metin Akay, Chair, Advanced Technologies for Brain Initiatives Workshop

Symposium #1: Brain Initiatives

Ted Berger, University of Southern California

Carol Lucas, NSF

Kamil Ugurbil, University of Minnesota

Doug Weber, DARPA

Symposium #2: Neural Implants and Prosthetics: Translational Neural Engineering

Gert Cauwenberghs, University of California, San Diego

Michel M. Maharbiz, University of California, Berkeley

Jacob Robinson, Rice University

Mario Romero-Ortega, University of Texas, Dallas

Symposium #3: Brain Mapping and Connectivity

Dominique Durand, Case Western Reserve University

Warren Grill, Duke University

Paul Sajda, Columbia University

John White, Boston University

November 11, 2016

8:30 AM – 12:00 PM PST

Symposium #4: Advances in Brain-Computer Interface

Jose Carmena, University of California Berkeley

Dario Farina, Goettingen University

Karim Oweiss, University of Florida

Maryam Shanechi, University of Southern California

Symposium #5: Neurotechnology for Rehabilitation

Robert Kirsch, Case Western Reserve University

Lee Miller, Northwestern University and RIC

Jose Pons, Neural Rehabilitation Group, Cajal Institute

Eric Perreault, Northwestern University and RIC

The IEEE Workshop on Advanced NeuroTechnologies for BRAIN Initiatives, sponsored by the IEEE Brain Initiative, will be held November 10-11, 2016, at the Sheraton San Diego Hotel and Marina, California. We strongly encourage members of both the Neuroscience and Engineering Communities to attend this highly multidisciplinary workshop.

The workshop will highlight the development of novel electronic and photonic devices and techniques for experimental probing, neural simulation studies, and the design and development of human-machine interface systems, artificial vision sensors, and neural prosthesis have significantly restored and enhanced the impaired sensory functions and motor systems. Furthermore, we highlight these recent technological advances by focusing on advanced technologies that monitor and control brain activities to treat neurological diseases, including Alzheimer's, Epilepsy, Depression, etc., from the molecular to systemic levels.

Invited talks will be presented by internationally well respected researchers. This workshop will provide a unique interactive platform to exchange of ideas in the areas of BRAIN initiatives with leading researchers and medical and industry professionals.



Registration is Open at brain.ieee.org/news/antbi/