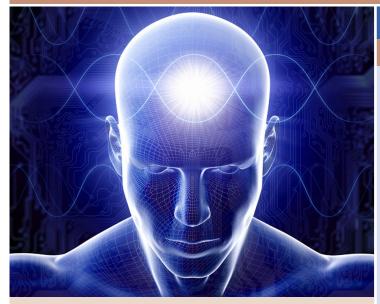


### **IEEE**



# IEEE Brain Initiative Workshop on Advanced NeuroTechnologies for BRAIN Initiatives

### National Housing Center, Washington D.C., November 9-10, 2017



The IEEE Brain Initiative Workshop will highlight the development of novel technological innovations, including engineered neuro-materials based implants, opto-genetics, to treat and monitor, traumatic brain injury, cognitive brain impairments, stroke and spinal cord injury etc. We also highlight translational clinical research on human-machine interface systems to significantly restore, and enhance, the impaired sensory functions and motor systems. Furthermore, global neuro-technology industry trends, nano devices, computational advances, and stem cell engineering for the treatment of neurological diseases, from the molecular to systemic levels, will be discussed.

## Location is at the National Housing Center, 1201 15th St., NW, Washington DC.



### **Tentative Program at a Glance**

### November 9, 2017

Opening and Welcome Remarks 08:15-08:30 AM Paul Sajda, Chair, IEEE Brain Initiative Metin Akay, Chair, ANTBI Workshop

Keynote #1 08:30-09:30 AM Tim Denison, Medtronic

Coffee Break 09:30-10:00 AM

Symposium#1: Neuroethics 10:00 AM-12:00 PM
Recorded Message, Judy Illes, University of British Columbia
Sara Goering, University of Washington
Karen Rommelfanger, Emory University (pending)
James Giordano, Georgetown University

Lunch Break 12:00-01:00 PM

Symposium#2: Technologies for Brain Trauma and Spinal Cord Injuries 01:00-03:00 PM SIlvestro Micera, EPFL Michelle LaPlaca, Georgia Tech Robert Kirsch, Case Western University

Coffee Break 03:00-03:30 PM

Symposium#3: Engineering Next Generation BCI 03:30-05:30 PM Krishna Shenoy, Stanford University Jacob Robinson, Rice University Jon Viventi, Duke University

### **November 10, 2017**

Keynote #2 08:30-09:30 AM Mark Chevillet, Facebook

Coffee Break 09:30-10:00 AM

Symposium#4: Neurotechnology for Rehabilitation 10:00 AM-12:00 PM Ted Berger, University of Southern California James Weiland, University of Michigan Jack Judy, University of Florida

Lunch Break 12:00-01:00 PM

Symposium#5: Neurocomputation and Modeling 01:00-03:00 PM John White, Boston University
Loren Frank, University of California, San Francisco
Maryam Shanechi, University of Southern California
Cynthia Chestek, University of Michigan

Coffee Break 03:00-03:30 PM

Symposium#6: Global Neurotechnology Industry 03:30-05:30 PM
Chad Bouton, Feinstein Institute
Matthew Angle, Paradromics
Mark Schnitzer, Inscopix (pending)

Closing Remarks 05:30-5:45 PM
Paul Sajda, Chair, IEEE Brain Initiative
Metin Akay, Chair, ANTBI Workshop

