

# IEEE BrainCAS

Oct. 20-21 | Hangzhou, China

## A Post Conference Workshop of BioCAS 2016

Day 1: Neural Interfacing Technologies and Applications  
Day 2: Brain Machine Interfaces (BMI)

## Call for Participation

The 1st IEEE BrainCAS workshop, to be held on October 20-21, 2016 in Hangzhou is a unique forum for showcasing the latest in neurotechnology and neuroscience and identifying challenges and opportunities. The workshop will align to a different theme for each day: neural interfacing technology (day 1) and brain machine interfaces (day 2). It will feature an outstanding and highly innovative technical programme aimed at facilitating engagement between the neurosciences, neural engineering, medical and IEEE CAS communities. Invited experts from the international neuroscience and neurotechnology communities will provide their insights, pose the challenges, and present opportunities. Through a unique programme, the “audience” will be in continuous interaction. The goal is for every participant to leave BrainCAS: (1) with new contacts; and (2) with new ideas!

### Workshop Format

BrainCAS will, for the first time, feature a creative, interactive technical programme that will shift the focus from a traditional “presenter-focused” workshop to one that ALL participants interact and contribute to. This non-traditional workshop format will provide opportunities for BioCAS members and engineers to find collaborators, and to identify and develop new ideas together. Neuroscientists and physicians will benefit from finding collaborating engineers, scientists and deepen their knowledge on forefront technologies. Learning about neuroscience and neurotechnology in an interactive way will help students, and newcomers to the field to understand the cutting edge of neural interfaces, BMI and neuromodulation. Experts can learn more about the latest scientific results through the talks and discussion.

To facilitate this level of interaction, the technical programme will feature a number of different formats:

- ▶ **Keynote talks** – to inspire, hear new perspectives, and portray a vision
- ▶ **Technical talks** – designed to communicate the state-of-the-art and beyond, identifying the challenges and new opportunities.
- ▶ **Small group interaction** – to meet new people, collaborate, discuss, brainstorm and propose new ideas.
- ▶ **Evening discussion posters** – for participants to showcase to their peers their latest and greatest work!
- ▶ **Social program** – to get to know people, continue discussion or take a break, through lunch, coffee breaks, dinner, and scheduled “free time”!

### Call for Discussion Posters

The evening session on the first day will be an informal interactive session with dinner and drinks. All participants (including invited speakers, organisers, registrants) can bring recently published/presented posters and exhibit to the audience. The poster details (title, abstract) will be recorded together with participants’ profiles, and compiled in a “workshop proceedings” that will be provided to all participants. The posters are mainly to facilitate discussions and can be based on either published or yet-published results. These will be checked/reviewed only to ensure they are within scope of the workshop.

### Speakers

Ralph Etienne-Cummings (Johns Hopkins University), Jaimie Henderson (Stanford), Andrew Jackson (Newcastle University), Takashi D. Yoshida Kozai (University of Pittsburgh), Wentai Liu (UCLA), Yi Lu (Chinese Academy of Sciences), Zoltan Mari (Johns Hopkins University), Victor Pikov (GlaxoSmithKline), John Seymour (University of Michigan), Marc Slutzky (Northwestern), Huajin Tang (Sichuan University)

### Organizing Committee

Timothy Constandinou, Laszlo Grand, Andrew Jackson, Tor Sverre Lande, Yong Lian, Guoxing Wang, Zhihua Wang, Lingling Sun, De Ma

### Contact Us

Please visit the website: <http://www.biocas2016.org/workshops.html> to find out the latest information about registration, poster submission and speakers.

Inquiries can be sent to us via email: [braincas@126.com](mailto:braincas@126.com)



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