



IEEE SMC 2016's 6th **Workshop on Brain-Machine Interface Systems** will be held October 8-12, 2016 in Budapest as part of **SMC 2016** - the flagship annual conference of the IEEE Systems, Man, and Cybernetic Society. The Workshop is organized by the IEEE SMCS Technical Committee on Brain-Machine Interface Systems and is technically co-sponsored by the IEEE Brain Initiative, the IEEE Standards Association, and 11 IEEE Societies and Councils.

IEEE President Barry Shoop will give the opening remarks at the Workshop.

Brain-Machine Interface (BMI) Systems offer a new generation of multidisciplinary technologies that allow users to directly control devices via the nervous system. Successful realization of such approaches encompass several challenges including seamless interaction of the human and the machine, robust systems to chronically measure brain activity, reliable decoding of the (neural) control signals, and efficient means to provide information back to the user.

The theme of this year's BMI Workshop, involving the integration of concepts from Systems, Human-Machine Systems, Cybernetics, and topics of interest from other IEEE Societies and Councils is:

“New Research Opportunities and Industrial Applications in BMI Systems Arising from the IEEE Brain Initiative”

The five-day BMI workshop features tutorials, panels, discussions with the audience, a number of prominent invited speakers from industry and academia, and presentations of accepted papers. Several special events are planned (tentative schedule):

Special Events During 5-Day BMI Workshop, October 8-12	
October 8–9	Brain Hackathon
October 9	IEEE Standards Meeting
October 9	Opening Reception
October 10	Founders Keynote Session “From Research to Scientific Breakthroughs to Improving Lives of People”
October 11	IEEE Brain Initiative Meeting
October 9-12	Tutorials, Invited Talks, and Panels

While the Brain Hackathon and the IEEE Brain Initiative Meeting are free to all participants, the BMI Workshop requires a paid SMC 2016 registration.

The *IEEE Brain Initiative Best Paper Award* will be given to the best paper at this workshop, and 5 IEEE Brain Initiative student travel grants will be awarded. All papers will be eligible the *SMC Franklin V. Taylor Memorial Award* and the *SMC Best Student Paper Award*. The Hackathon will also award prizes of over \$8,000.

Early discounted registration ends July 09, 2016.

If you have any questions, please contact Michael H. Smith (m.h.smith@ieee.org)

WORKSHOP ORGANIZERS

Michael H. Smith, Chair
University of California Berkeley, USA

Seong-Whan Lee, Co-Chair
Korea University, Korea

Vinod A Prasad, Co-Chair
NTU, Singapore

Ricardo Chavarriaga Lozano, Co-Chair
EPFL, Switzerland

Ljiljana Trajković, Technical Program
Chair, SFU, Canada

SMC 2016 KEYNOTE ON BMI

Jose Carmena
Vice Chair, *IEEE Brain Initiative*

BMI WORKSHOP KEYNOTES

Commercialization of Technology
Featuring Founders Behind Innovative
Companies Worth Over \$5 Billion

INVITED SPEAKERS

Andrew Laine
President, *EMB Society*

José del R. Millán
EPFL, Switzerland

Paul Sajda
Chair, *IEEE Brain Initiative*

PANELS

Important Topics in Designing and
Building Real World BMI Systems
How Research and Methodologies in
Systems, Human-Machine Systems,
and Cybernetics can be applied to BMI
What Have We Learned, Where Do
We Go From Here?

TUTORIALS

Mobile BCI Application: Neuroscience-
based Design and Neurorehabilitation
Why bother with Advanced Modeling in
BCI? Lessons from Neuroimaging

IEEE BRAIN INITIATIVE MEETING

With 15 IEEE Societies & Councils

IEEE STANDARDS MEETING

Clinical and Non-Clinical BMI/BCI

BRAIN HACKATHON

Planned to be World's Largest - Free

http://go.epfl.ch/smc2016_bmi
<http://www.smc2016.org>