

# Yamada Symposium on “Neuroimaging of Natural Behaviors”

## Day 1 (10/2)

12:00-13:00 Registration

13:00-13:10 Opening address: Hiroyasu Ejiri

13:10-15:30 Session 1: Neurorehabilitation (chairperson: Tanaka)

13:10-14:10 Mitsuo Kawato “XNef: Decoded fMRI neurofeedback and functional connectivity neurofeedback for manipulation of brain dynamics”

14:10-14:50 Junichi Ushiba “Brain-Machine Interfaces for neurological rehabilitation for post-stroke hemiplegia”

14:50-15:30 Tetsunari Inamura “Immersive VR platform for cloud-based Neurorehabilitation”

15:30-16:00 Coffee break + Poster session

16:00-18:00 Session 2: Music and rhythm (chairperson: Kambara)

16:00-16:40 John Iversen “Rhythms in music, language and brain”

16:40-17:20 Shinichi Furuya “Cortical dynamics of the sensory-motor integration in musical performance”

17:20-18:00 Rumi Hiraga “Playing music game by hearing-impaired youth -how do they play the game? –”

18:00- Banquet at Seiyo-ken restaurant

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## **Day 2 (10/3)**

9:30-11:50 Session 1: Brain-Computer Interfaces (chairperson: Miyakoshi)

9:30-10:30 Tzyy-Ping Jung “Real-world neuroimaging research and brain-computer interfaces”

10:30-11:10 Natsue Yoshimura “Brain activity synergy analysis for motion decoding”

11:10-11:50 Takafumi Suzuki “Brain-machine interface using electrocorticography  
-System development and cortical adaptation-“

11:50-13:00 Lunch break

13:00-15:00 Session 2: Locomotion and balance (chairperson: Tanaka)

13:00-13:40 Irina Beloozenova “Thalamo-cortical networks controlling shoulder, elbow, and wrist during locomotion”

13:40-14:20 Katsumi Nakajima “Single-unit activity in cortical motor areas of unconstrained Japanese monkeys walking on a treadmill”

14:20-15:00 Takahiro Kagawa “Mobile brain/body imaging for visuomotor process during standing”

15:00-16:00 Coffee break + Poster session

16:00-18:00 Session 3: Clinical and Translational Neuroscience (chairperson: Kambara)

16:00-16:40 Sandra Loo “Neural activation and connectivity during voluntary movement in Tourette’s syndrome”

16:40-17:20 Makoto Miyakoshi “Measuring urges: EEG analysis on free ticcing patients”

17:20-18:00 Takufumi Yanagisawa “BMI robotic hand controls phantom limb pain”

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## Day 3 (10/4)

9:30-11:50 Session 1: Mobile Brain/Body Imaging I (chairperson: Miyakoshi)

9:30-10:30 Scott Makeig “Mobile Brain/Body Imaging (Past, Present, and Future of EEG Research)”

10:30-11:10 Klaus Gramann “Imaging embodied brain dynamics”

11:10- 11:50 Hiroyuki Kambara “Dynamic modulation of brain activities during three-ball cascade juggling”

11:50-13:00 Lunch break

13:00-15:00 Session 2: Mobile Brain/Body Imaging II (chairperson: Kambara)

13:00-13:40 Hirokazu Tanaka “Dynamics of directional tuning and reference frames in humans”

13:40-14:20 Daniel Callan “Inflight EEG identifies neural signature of inattentive deafness in pilots”

14:20-15:00 Lewis Chuang “How does the brain process interruptions during continuous steering?”

15:00-15:40 Coffee break + Poster session

15:40-18:00 Session 3: Social Neuroscience (chairperson: Tanaka)

15:40-16:40 Norihiro Sadato “The role of the right inferior frontal gyrus in joint Attention-related identification with the partner probed by hyper-scanning fMRI”

16:40-17:20 Tamami Nakano “Spontaneous eyeblinks and brain network activity in natural environments”

17:20-18:00 Takayuki Nozawa “fNIRS hyperscanning for investigating natural communications and interactions”

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## Day 4 (10/5)

9:30-11:30 Session 1: Brain Networks (chairperson: Miyakoshi)

9:30-10:10 Andrew Zalesky “Neural connectomics: challenges and opportunities”

10:10-10:50 Luca Cocchi “Using brain stimulation to uncover the principles of brain network dynamics”

10:50-11:30 Stefan Haufe “Towards reliability and interpretability in translational neuroscience and brain-computer interfacing”

11:30-13:00 Lunch break

13:00-14:20 Session 2: fMRI & Natural Visual Experiences (chairperson: Tanaka)

13:00-13:40 Shiji Nishimoto “Modeling brain activity during natural audiovisual experiences”

13:40-14:20 J. Swaroop Guntupalli “Building Common Models of Representational Spaces using Naturalistic Stimulation”

14:20-15:00 Coffee break + poster session

15:00-17:00 Session 3: Advanced Signal Processing (chairperson: Kambara)

15:00-15:40 Motoaki Kawanabe “Characterizing variability of brain connectivity with constrained principal component analysis”

15:40-16:20 Okito Yamashita “Multi-modal integration approach to understand event-related brain dynamics”

16:20-17:00 Jason Palmer “Automatic segmentation and analysis of mobile EEG using multiple model Amica”

17:00-17:10 Concluding remark: Hirokazu Tanaka