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 Tzuy-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”
- 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 ticing 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 inattentional 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”


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