



Human Brain Project

The 2nd Japan-EU Workshop on Neurorobotics

Friday, April 29th, 2016

Yayoi Auditorium, The University of Tokyo

09:50 – 10:00 Welcome

10:00 – 12:00 Session 1

Satoshi Oota (RIKEN): *Analysis on the mouse gait patterns by using a neuromusculoskeletal model of the laboratory mouse*

Yosuke Ikegami (U Tokyo): *Musculoskeletal model of mice and the experimental system for their motion analysis*

Yuko Okamura-Oho (Jissen Women's University / RIKEN): *Integrated analysis of anatomical and topological maps of gene expression in the mouse brain*

Alois Knoll (TUM): *Recent developments in the human brain project*

13:00 – 15:00 Session 2

Florian Röhrbein (TUM): *A landscape of neurorobotics: from simulation towards physical robots*

Florian Walter (TUM): *Towards Neuromusculoskeletal Experiments for the HBP Neurorobotics Platform*

Hirokazu Takahashi (U Tokyo): *Neuronal intelligence emerging from the Darwinian principle*

Rüdiger Dillmann (FZI): *Modeling cortical sensor-motor control functionalities with a spiking neural-robot control network*

15:30 – 17:30 Session 3

Jacques Kaiser (FZI): *Functional model of the visual cortex' dorsal pathway in Neurorobotics*

Shu Takagi (U Tokyo): *On the modeling of neuromusculoskeletal coupling for simulating Parkinson disease*

Jun Igarashi (RIKEN): *A large-scale neural network model of basal ganglia-thalamocortical circuits run on K supercomputer for understanding Parkinson's disease resting tremor*

Yoshihiko Nakamura (U Tokyo): *Supercomputing of interaction between the spinal neuron pools and FEM musculoskeletal system*

17:30 – 17:40 Summary



Sponsored by the FET flagship "The Human Brain Project" and TUM-UTokyo Program, SGU, UTokyo