MONDAY 3TH DECEMBER 2018

08:20-08:50 Registration
08:50-09:00 Opening

Session 1  Embodied robots and computational models
Chair   Auke Ijspeert

09:00-09:30 Yulia Sandamirskaya (University of Zurich, Zurich, Switzerland)
Neuronal Dynamics of Action Representation, Execution, and Learning
09:30-09:40 Discussion

09:40-09:55 Short Talk: TBD
09:55-10:00 Discussion

10:00-10:30 Mitsuo Kawato (ATR, Kyoto, Japan)
Decoded neurofeedback and consciousness for learning from a small sample
10:30-10:40 Discussion

10:40-11:10 Coffee break

11:10-11:40 Terry Stewart (University of Waterloo, Waterloo, Canada)
Designing and Learning Cognitive Control with a Spiking Model of the Cortex-Basal Ganglia-Thalamus Loop
11:40-11:50 Discussion

11:50-12:05 Short Talk: TBD
12:05-12:10 Discussion

12:10-12:40 Barbara Webb (University of Edinburgh, Edinburgh, UK)
How the insect brain controls actions
12:40-12:50 Discussion

12:50-14:00 Lunch & Poster Session

Session 2  Decision making and action selection
Chair   Carl Petersen

14:00-14:30 Tony Prescott (University of Sheffield, Sheffield, UK)
The integration of sensing, attention and memory in mammals and robots
14:30-14:40 Discussion

14:40-14:55 Short Talk: TBD
14:55-15:00 Discussion
TUESDAY 4TH DECEMBER 2018

Session 3   Motor control
Chair       Pavan Ramdya

09:00-09:30  Silvia Arber (Biozentrum, University of Basel, Basel, Switzerland)
            Circuit Solutions for Programming Actions
09:30-09:40  Discussion
09:40-09:55  Short Talk: TBD
09:55-10:00  Discussion

10:00-10:30  Silvia Daun (University of Cologne, Cologne, Germany)
             Mathematical modelling of the neural control of 6-legged locomotion
10:30-10:40  Discussion

10:40-11:10  Coffee break

11:10-11:40  Mackenzie Mathis (Harvard University, Cambridge, USA)
             Dissecting the circuits of motor adaptation in mice
11:40-11:50  Discussion
11:50-12:05  Short Talk: TBD
12:05-12:10  Discussion

12:10-12:40  Ansgar Buschges (University of Cologne, Cologne, Germany)
             Neural Mechanisms Underlying Task Specificity of Intersegmental and Local Control in Insect Walking
12:40-12:50  Discussion

12:50-13:00  Final - common discussion and farewell

13:00        Possibility for Lunch at EPFL