

3rd INCF National Node of Finland Workshop on Neuroinformatics

How the Brain Learns: Experimental and Computational Perspectives

Time: Tuesday, September 21st, 2010

Place: Tampere University of Technology, Tietotalo, Korkeakoulunkatu 1, Lecture Hall TC133

Workshop program

09.30-10.00 Registration and coffee

10.00-10.15 Marja-Leena Linne and Ulla Ruotsalainen: Opening

Session 1 Cellular and network perspectives (Chair: Marja-Leena Linne)

10.15-11.00 Tomi Taira (Univ. of Helsinki, Neuroscience Center):

Activity-dependent development and plasticity in the hippocampus

11.00-11.25 Tiina Manninen (Tampere Univ. of Technology, Dept. of Signal Processing):

Computational models for synaptic plasticity

11.25-11.50 Michael Gutmann (Univ. of Helsinki, Dept. of Computer Science):

Learning from natural stimuli

11.50-12.45 Poster session

Techila GRID Computing Demo

Lunch buffet (TC145)

Session 2 Keynote lecture

12.45-13.30 Anthony Bell (UC Berkeley, Redwood Center for Theoretical Neuroscience):

Learning out of equilibrium in kinetic systems

13:30-14:15 General discussion 1

14.15-14.45 Coffee and posters

Session 3 Cognitive perspective (Chair: Jugoslava Acimovic)

14.45-15.30 Minna Huotilainen (Univ. of Helsinki, Cognitive Brain Research Unit):

Music is powerful in changing the brain

Small break

15.35-16.20 Iiro Jääskeläinen (Aalto University, Dept. of Biomed. Eng. and Computational Science):

Short-term plasticity in human auditory cognition

16.20-16.45 Juha Kesseli (Tampere Univ. of Technology, Dept. of Signal Processing):

Ramping signals and timing in macaque PFC

16.45-17.30 General discussion 2 and sum-up

17.30- Dinner buffet at Tampere University of Technology (Restaurant Zip)
