



Easter Workshop on Biomedical Imaging and Bioelectromagnetism, Tampere University of Technology, March 27th, 2018

3	
09:25	Meeting at the ground level lobby (info desk) of the Kampusareena-building
09:30-10:15	Carsten H. Wolters , <i>Institute for Biomagnetism and Biosignal Analysis, University of Münster:</i> Reconstruction and manipulation of neuronal networks in the human brain
10:15-10:40	Discussion & Coffee
10:40-11:25	Katrina Wendel-Mitoraj , <i>BrainCare Oy, Tampere</i> : Long-term epilepsy monitoring: From Research to Startup
11:35-11:55	Tuan Vo , Laboratory of Mathematics, Tampere University of Technology: Partial Differential Equations and the EEG forward model
11:55-12:40	Lunch break (Teekkari Cabinet, Amica Reaktori)
12:40-13:00	Atena Rezaei , Laboratory of Mathematics, Tampere University of Technology: Mathematics and Applications of Complete Electrode Model
13:05-13:25	Simo Monto , Jyväskylä Centre for Interdisciplinary Brain Research, University of Jyväskylä: Mapping phase-phase interactions with MEG — can we really do it?
13:30-13:55	Defne Us , Signal Processing, Tampere University of Technology: Reduction of artifacts in medical tomography: hardware and software solutions
14:00-14:20	Coffee
14:00-14:25	Sara Sommariva , <i>Department of Neuroscience and Biomedical Engineering, Aalto University:</i> An unsupervised clustering approach for MEG-based cortical parcellations with reduced source-leackage
14:30-14:55	Narayan Subramaniyam, Department of Neuroscience and Biomedical Engineering, Aalto University: Particle Markov Chain Monte Carlo methods for joint estimation of neural sources and their connectivity from MEG data
15:00-15:30	Final discussions & Ending

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Program





List of Participants

Jarmo Hämäläinen, Jyväskylä Centre for Interdisciplinary Brain Research, University of Jyväskylä

Olli Koskela, Computational Biophysics and Imaging Group, Biomedical Science and Engineering, Tampere University of Technology.

Simo Monto, Jyväskylä Centre for Interdisciplinary Brain Research, University of Jyväskylä

Jukka-Pekka Pirhonen, BrainCare Oy, Tampere

Sampsa Pursiainen (Organizer), Laboratory of mathematics of Mathematics, Tampere University of Technology

Atena Rezaei, Laboratory of Mathematics, Tampere University of Technology

Sara Sommariva, Department of Neuroscience and Biomedical Engineering, Aalto University.

Narayan Subramaniyam, Department of Neuroscience and Biomedical Engineering, Aalto University

Defne Us, Signal Processing, Tampere University of Technology:

Katrina Wendel-Mitoraj, BrainCare Oy, Tampere

Tuan Vo, Laboratory of Mathematics, Tampere University of Technology

Carsten H. Wolters, Insitute for Biomagnetism and Biosignal, University of Münster

Tuomo Ylinen, Seinäjoki Neuromonitoring Research Group, The Hospital District of South Ostrobothnia



Welcome!