

NEST Conference 2018

25–26 June 2018, Ås, Norway

Monday, 25th June

- 11:00 Registration
- 11:30 **Lunch**
- Session I**
- 12:15 Welcome
Anne Cathrine Gjørde, Dean, Faculty of Science and Technology, NMBU
- 12:30 A short introduction to the usage and development of rate-based models in NEST
Jan Hahne
- 12:45 A rate-based model of saccade generation in the reticular formation
Mario Senden
- 13:00 Cerebellar single neuron dynamics in NEST: E-GLIF neuron optimization and impact on network activity and learning
Alice Geminiani
- 13:15 A model of self-motion perception developed in NEST
Petia Korpinkova-Hristova
- 13:30 Collaborative analysis of neuronal activity data and validation of network models using the Elephant analysis framework
Michael Denker
- 13:50 NEST 3 Sneak Preview
Hans Ekkehard Plesser
- 14:10 The Thorvald Autonomous Robot – Challenges Faced in Agricultural Environments
Lars Grimstad
- 14:30 **Posters, demos, and coffee**
- Group work**
- 15:15 Spot: NEST User Documentation - Current Developments
Jessica Mitchell
- 15:25 Spot: HBP HPAC Systems
Anna Lührs
- 15:30 Spot: Benchmarking and parameter studies with JUBE
Sebastian Lührs
- 15:35 Work in groups
- 18:00 Annual Meeting of the NEST Initiative
- 19:00 **Dinner**

Tuesday, 26th June

- Session II**
- 09:15 Reports from group work
- 09:45 Multi-modality and multi-level data integration through brain atlasing: Human Brain Project tools and strategies
Jan Bjaalie
- 10:15 Scaling up your research - Supercomputing in a nutshell
Anna Lührs
- 10:30 **Posters, demos, and coffee**
- Session III**
- 11:15 Volr: A declarative interface language for neural computation
Jens Egholm Pedersen
- 11:30 Enabling malleability for NEST: moving towards exascale
Marco D'Amico
- 11:45 Streaming Live NEST Simulation Data Into Visualization and Analysis
Simon Oehrl
- 12:00 A web application programming interface (API) for NEST
Sebastian Spreizer
- 12:15 MiniSim or 7 tips to optimise spiking network simulations for single core performance
Marc-Oliver Gewaltig
- 12:45 Wrap up
- 13:00 **Lunch**



Norwegian University
of Life Sciences



Human Brain Project

