



Certificate of Attendance

This is to certify that

Gianmarco Tiddia

attended the virtual

NEST Conference 2021

28–29 June 2021

and has paid a registration fee of 20 CHF

Äs, 29 June 2021

Prof. Dr. Hans Ekkehard Plesser
President of the NEST Initiative

NEST Conference 2021 — Program

Monday, 28 June (all times CEST)

Morning

08:45	Registration
09:00	Welcome & Introduction Hans Ekehard Plesser
Session 1	Chair: Hans Ekehard Plesser
09:15	Keynote Embedding memories in a network with excitatory and inhibitory plasticity leaves a spiking regularity trace Julia Gallinaro
10:00	Short break
10:15	Talk NEST Desktop: A web-based GUI for the NEST Simulator Sebastian Spreizer
10:35	Talk Multi-scale brain co-simulation in the Human Brain Project: EBRAINS tools for in-transit simulation and analysis Muhammad Fahad
10:55	Talk EBRAINS Scientific Liaison Unit Claudia Bachmann
11:15	Short break
11:30	Workshop Structural plasticity Sandra Diaz
12:30	Lunch break

Tuesday, 29 June (all times CEST)

Morning

Session 3	Chair: Markus Diesmann
09:15	Session Introduction
09:25	Talk Towards a systematic understanding of deep-sleep-like activity effects on the network working points during learning cycles Chiara De Luca
09:45	Workshop Modeling and simulation of synaptic plasticity using NESTML and NEST Simulator Charl Linssen, Pooja Babu
10:45	Short break
11:05	Flash talk Spiking model of the head direction cell system for orientation estimation Rachael Stentiford
11:15	Keynote Conditions for wave trains in spiking neural networks Johanna Senk
12:00	Lunch break

Afternoon

Session 2	Chair: Johanna Senk
13:30	Session Introduction
13:35	Keynote Structured Information Representation with Assemblies of Spiking Neurons Michael Günther Müller
14:20	Short break
14:30	Flash talk Sequence learning, prediction, and generation in networks of spiking neurons Younes Bouhadjar
14:40	Talk Event-driven implementation of eligibility propagation Agnes Korcsak-Gorzo
15:00	Flash talk Activity simulations in random networks subject to neurodegradation Sylvain Castella
15:10	Short break
15:30	Poster session
16:00	Keynote NEST for Associative Memory with Winner Take All Nets Christian Huyck
16:45	Group photo

Afternoon

Session 4	Chair: Abigail Morrison
13:00	Session Introduction
13:05	Keynote Dynamics of multiple interacting excitatory and inhibitory populations with delays Christopher Kim
13:50	Short break
14:00	Talk Compartmental models with user-defined trans-membrane currents through NESTML Willem Wybo
14:20	Flash talk Combining NEST Simulator and Python Modules in Parallel HPC Implementation Petia Koprinkova-Hristova
14:30	Flash talk Sub realtime simulation of a full density microcircuit model on a single compute node Anno Kurth
14:40	Short break
15:00	Poster session
15:30	Wrap-up Abigail Morrison
15:45	Community Discussions*
17:00	End of Day 2