



Certificate of Attendance

This is to certify that

Gianmarco Tiddia

attended the virtual

NEST Conference 2022

23–24 June 2022

and has paid a registration fee of 20 CHF

Ås, 24 June 2022

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

NEST Conference 2022

Thursday, 23 June 2022

Keynote (09:35 - 10:20)

time	title	presenter
09:35	Simulation of optogenetic based visual prosthetic stimulation in V1	ANTOLIK, Ján

Talks (10:30 - 10:55)

time	title	presenter
10:30	MPI parallel simulation of a multi-area spiking network model using NEST GPU	TIDDIA, Gianmarco

Workshop (11:15 - 12:45)

time	title	presenter
11:15	NEST Desktop: A "Let's Play Together" for neuroscience	SPREIZER, Sebastian

Talks (13:45 - 14:10)

time	title	presenter
13:45	Brain-inspired spiking neural network controller for a neurobotic whisker system	ANTONIETTI, Alberto

Poster: Poster teasers (14:10 - 14:22)

time	title	presenter
14:10	Incremental Awake-NREM-REM Learning Cycles: Cognitive and Energetic Effects in a Multi-area Thalamo-Cortical Spiking Model	MR TONIELLI, Leonardo
14:13	beNNch – Finding Performance Bottlenecks of Neuronal Network Simulators	ALBERS, Jasper
14:16	NEST Desktop: Explore new frontiers	SPREIZER, Sebastian
14:19	NEST is on the road to GPU integration	VILLAMAR, Jose

Poster: Poster session 1 (14:30 - 15:30)

Keynote (16:00 - 16:45)

time	title	presenter
16:00	Bio-realistic models of cortical circuits as a freely shared platform for discovery	ARKHIPOV, Anton

Friday, 24 June 2022

Keynote (09:00 - 09:45)

time	title	presenter
09:00	Fast and energy-efficient neuromorphic deep learning with first-spike times	GÖLTZ, Julian KRIENER, Laura

Talks (10:00 - 11:40)

time	title	presenter
10:00	A Neuromorphic Compute Node Architecture for Reproducible Hyper-Real-Time Simulations of Spiking Neural Networks	MR TRENSCH, Guido
10:25	Signal denoising through topographic modularity of neural circuits	ZAJZON, Barna
10:50	Connecting NEST	TERHORST, Dennis
11:15	Unified Descriptions and Depictions of Network Connectivity	VAN ALBADA, Sacha J.

Keynote (12:00 - 12:25)

time	title	presenter
12:00	Balance and adaptation in neuronal systems	LEVINA, Anna

Poster: Poster teasers (13:30 - 13:42)

time	title	presenter
13:30	New ways into NEST user documentation	MITCHELL, Jessica
13:33	Modeling spiking networks with neuron-glia interactions in NEST	JIANG, Han-Jia
13:36	Neurobiologically-constrained neural network implementation of cognitive function processing in NEST – the MatCo12 model	MAHMOUDIAN, Sepehr
13:39	Fully automated model generation in PYNEST	BENELHEDI, Mohamed Ayssar

Poster: Poster Session 2 (14:00 - 15:00)

Keynote (15:00 - 15:45)

time	title	presenter
15:00	A spiking neural network control system for the investigation of sensori-motor protocols in neurobotic simulations.	GAMBOSI, Benedetta