

2nd NeurONN Virtual Workshop on Neuromorphic Computing March 18th, 2022



in the frame of DATE22 Virtual Conference

Event address: https://virtual22.date-conference.com/

08:30 - 08:35	<i>Welcome Note from Organizers</i> Jamila Boudaden (chair), Fraunhofer EMFT, Germany	Session 3: Demonstrators	
08:35 – 09:00	Eirini Karachristou (co-chair), CNRS, France NeurONN Project overview Aida Todri-Sanial, CNRS, LIRMM, France	13:30 - 14:00	NeurONN live Demonstrators (CNRS/AIM) Madeleine Abernot, CNRS, France Thierry Gil, CNRS, France Theophile Gonos, A.I.Mergence, France
Session 1: Projects related to Neuromorphic computing		Session 4: Neuromorphic Architecture & Design	
09:00 - 09:30	Photonic Neuromorphic Computing Frank Brückerhoff-Plückelmann, University of Münster, Germany	14:00 - 14:30	Effect of Device Mismatches in Differential Oscillatory Neural Networks Jafar Shamsi, CSIC, Spain
09.30 - 10.00	Edge Neuromorphic Intelligence – MEMSCALE project Melika Payvand, University of Zurich and ETH Zurich, Switzerland	14:30 - 15:00	Machine learning for the design of wave and oscillator-based computing devices Gyorgy Csaba, Pazmany University Hungary
10:00 - 10:30	Coffee Break	15:00 - 15:30	Coffee Break
Session 2: Materials and Devices		Session 5: Neuromorphic Computing	
10:30 - 11:10	Modeling Unconventional Nanoscaled Device FABrication – MUNDFAB Project Peter Pichler, Fraunhofer IISB, Germany	15:30 - 16:00 16:00 - 16:30	Fully spintronic radiofrequency neural networks Alice Mizrahi, Thales, France Analoa oscillatory neural networks for energy-
11:10 - 11:50	Resistance switching materials and devices for neuromorphic computing Sabina Spiga, CNR - IMM, Italy		efficient computing at the edge Corentin Delacour, CNRS, France
11:50 – 12:30	<i>Neuromorphic devices for Analog computing</i> Olivier Maher, IBM, Switzerland	16:30 - 17:00	Reliable Processing-In-Memory based manycore architectures for Deep Learning: From CNNs to GNNs Partha Pratim Pande,
12:00 - 12:30	Lunch Break		Washington State University, USA



