



Phase-Change Switch Workshop on Neuromorphic Computing December 17, 2020

09:00 - 09:05	Welcome Note from Organizers Siegfried Karg, IBM Research Zurich, Switzerland	Event address: https://ibm.webex.com/ibm/onstage/g.php?MTID =e85e55534f154ad9f04867ad6f56328da	
09:05 – 09:30	Phase-Change Switch Project overview Adrian Ionescu, EPF Lausanne, Switzerland		
EU projects related to Neuromorphic computing		Neuromorphic Circuits & Architectures	
09:30 – 09:55	NeurONN: Neuromorphic Computing with Oscillatory Neural Networks Aida Todri-Sanial, CNRS, LIRMM, France	13:30 - 14:00	Exploiting temporal dynamics for sensing Elisabetta Chicca, RU Groningen, The Netherlands
09:55 – 10:20	MANIC: Developing materials for neuromorphic devices and circuits Beatriz Noheda , RU Groningen, The Netherlands	14:00 - 14:30	Computing with delays: Getting inspiration from plasticity in neuroglial circuits Renaud Jolivet , Univ Geneva, Switzerland
10:20 - 10:45	<i>MeMscales, Memory with multi-scale time constants for neuromorphic architectures</i> Elisa Vianello, CEA Leti, France	14:30 - 15:00	VO ₂ coupled oscillators as hardware accelerators for convolutional neural networks
10:45 - 11:00	Coffee Break		Elisabetta Corti, IBM Research Zurich, Switzerland
Materials and Devices		15:00 - 15:15	Coffee Break
11:00 - 11:30	Neuromorphic computing via device physics in resistive switching memories Daniele Ielmini , Politecnico di Milano, Italy	<i>Neuromorphic Co</i> 15:15 – 15:45	mputing Algorithm-Circuits-Device Co-Design for Neuromorphic Intelligence
11:30 - 12:00	Radio Frequency tunable functions with VO $_2$ and Ge-		Melika Payvand, Univ Zurich, Switzerland
	<i>doped VO</i> ₂ Andrei Müller , EPF Lausanne, Switzerland	15:45 – 16:15	<i>Memristive Neuromorphic Systems</i> Bernabé Linares-Barranco , CSIC-IMSE, Spain
12:00 - 12:30	Ion liquid gate induced changes in properties of oxide thin films Stuart Parkin , MPI Halle, Germany	16:15 - 16:45	Phase-change memory enables energy- efficient brain-inspired computing Manuel Le Gallo, IBM Research Zurich,
12:30 - 13:30	Lunch Break		Switzerland

















