

Materials for Sustainable Development Conference (MAT-SUS) (NFM22) Neuromorphic Sensory-Processing-Learning Systems inspired in Computation Neuroscience

Barcelona, Spain, 2022 October 25th - 27th

Conference Chairs: Bernabé Linares Barranco and Timothée Masquelier

Conference Program

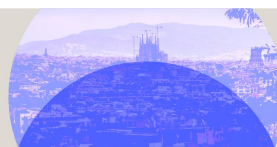
October 25th - Day 2 (Tuesday)	
08:55 - 09:00	Room S3+S4 - Chair Introduction
	Session 1.1 Chair: Bernabé Linares Barranco
09:00 - 09:30	<u>Amos Sironi</u> (<i>Prophesee</i>)
1.1-11	Event-based Sensors: Neuromorphic Vision for Neuromorphic AI
09:30 - 10:00	<u>Yi Tian</u> (<i>Institut de Robòtica i Informàtica Industrial, CSIC-UPC</i>), Juan Andrade-Cetto
1.1-12	Spiking Neural Network for Event camera ego-motion estimation
10:00 - 10:30	<u>Amirreza Yousefzadeh</u> (<i>imec The Netherlands</i>)
1.1-13	Digital neuromorphic processing technology and its market readiness
10:30 - 11:15	Coffee Break
	Session 1.2 Chair: Timothée Masquelier
11:15 - 11:45	<u>Sander Bohte</u> (<i>Machine Learning, CWI</i>)
1.2-11	How effective online learning rules enable the supervised training of large-scale networks of detailed spiking neuronal models
11:45 - 12:15	<u>Friedemann Zenke</u> (<i>Friedrich Miescher Institute</i>)
1.2-12	Efficient information processing with artificial spiking neural networks
12:15 - 12:35	<u>Bernabé Linares-Barranco</u> (<i>CSIC and Univ. de Sevilla</i>)
1.2-13	Spiking Hardware for neuromorphic computing
12:35 - 12:55	<u>Timothee Masquelier</u> (<i>CNRS</i>)
1.2-14	Spiking neural networks trained with surrogate gradients as universal function approximators
12:55 - 13:00	Symposium Closing
17:15 - 20:00	Poster Session



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October 26th - Day 3 (Wednesday)

19:30 - 22:00 **Social Dinner**

October 27th - Day 4 (Thursday)

17:15 - 17:30 **General Closing**