



# NeurONN Workshop on Neuromorphic Computing

## May 27, 2021

09:00 – 09:05 *Welcome Note from Organizers*  
**Siegfried Karg**, IBM Research Zurich, Switzerland

09:05 – 09:30 *NeurONN Project overview*  
**Aida Todri-Sanial**, CNRS, LIRMM, France

### *Projects related to Neuromorphic computing*

09:30 – 09:55 *MANIC: Developing materials for neuromorphic devices and circuits*  
**Beatriz Noheda**, RU Groningen, The Netherlands

09:55 – 10:20 *NEUROTECH: Catalyzing neuromorphic research and collaboration*  
**Melika Payvand & Elisa Donati**, Univ Zurich, CH

10:20 – 10:45 *NeuroSys: Clusters4Future on Neuromorphic Hardware*  
**Max Lemme**, RWTH Aachen, Germany

10:45 – 11:00 *Coffee Break*

### *Materials and Devices*

11:00 – 11:30 *Dynamics and applications of the voltage-triggered Insulator-to-Metal transition*  
**Javier del Valle**, Univ Geneva, Switzerland

11:30 – 12:00 *Physics based modelling of neuromorphic circuits and devices*  
**Ahmed Nejim**, Silvaco, UK

12:00 – 12:30 *In-Memory Computing with Memristive Devices*  
**Stephan Menzel**, FZ Juelich, Germany

12:30 – 13:30 *Lunch Break*

Event address:

<https://ibm.webex.com/ibm/onstage/g.php?MTID=eb6089fe568046907e34a3f92bec7801e>

### *Live Demo*

13:30 – 13:45 *Obstacle Avoidance in Mobile Robot using Oscillatory Neural Network*  
**Thierry Gil & Madeleine Abernot**, CNRS

*Neuromorphic Circuits & Architectures*  
 13:45 – 14:15 *Neuronal & synaptic circuits for Oscillatory Neural Networks*  
**Corentin Delacour**, CNRS, LIRMM, France

14:15 – 14:45 *Differential Oscillatory Neural Networks*  
**Jafar Shamsi**, CSIC-IMSE, Spain

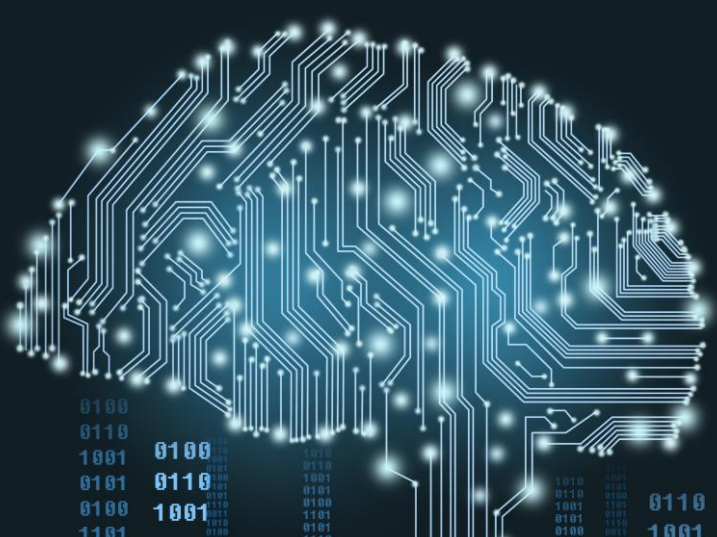
14:45 – 15:15 *Neuromorphic Computing with Phase Change Devices*  
**Bipin Rajendran**, King's College, London, UK

15:15 – 15:30 *Coffee Break*

### *Neuromorphic Computing*

15:30 – 16:00 *Neuromorphic Computing from theory to application*  
**Yulia Sandamirskaya**, Intel, Germany

16:00 – 16:30 *Few Shot Learning with Networks of Coupled Oscillators*  
**Suman Datta**, Notre Dame Univ, USA



<https://www.neuronn.eu/>

