

MemoCIS 7th Workshop and MC Meeting
'Memristors – Devices, Models, Circuits, Systems and Applications', Dubrovnik, Croatia.
12.-13.3.2018

PROGRAM

Day 1 - Monday, March 12, 2018

- 08:30 – 09:00 [Registration and Welcome](#)
- 09:00 – 10:00 **Plenary Talk: Leon O. Chua** “3 New Theorems on Memristors”
- 10:00 - 10:15 **Julius Georgiou** ""Chua Mem-Components for Adaptive RF Metasurface""
- 10:15 – 10:30 **Marcos Antoniadis**, “An Adaptive Mem-capacitor-based, RF Absorbing Metasurface”
- 10:30 – 11:00 [Coffee Break](#)
- 11:00 - 11:15 **Edoardo Bonizzoni**, "A Series-Parallel Model for Memristive Devices"
- 11:15 - 11:30 **Catarina Dias**, "Fault-tolerant memristor-based Willshaw Network""
- 11:30 - 12:30 **Keynote: Subhasish Mitra**, "Abundant-Data Computing: The N3XT 1,000X"



12:30 – 14:00

Lunch Break

14:00 – 15:00

Keynote: Ronald Tetzlaff "Prediction of fading memory by different memristor models"

15:00 – 15:30

Poster Session

Alice Selby, "Spray Deposited Memristive Nanodevices"

Dalibor Bialek, "Synthesis of predictive models of mem-devices"

Ayoub Hamdiyah, "An Optically Tunable STDP Synaptic Plasticity Memristor"

Ioulia Tzouvadaki, "Memristive Biosensors for Theranostics"

Carlos M. Rosário, "Correlation in the transport properties between conductive filaments in Ta₂O₅ ReRAM devices and substoichiometric TaOx thin films"

Melika Payvand, "Event-based circuits for controlling stochastic learning with memristive devices in neuromorphic architectures"

Rafailia-Eleni Karamani, "Study of worldwide trends in memristor research "

Andres Udál, "Pseudo-Random Number Generator using Memristor Cellular Automata"

15:30 – 16:00

Coffee Break

16:00 – 17:00

Management Committee Meeting

17:00 – 17:30

Working Groups Meeting



PROGRAM

Day 2 - Tuesday, March 13, 2018

- 08:30 – 09:00 [Registration](#)
- 09:00 – 10:00 **Keynote: Themistoklis Prodromakis**, “Enabling the Internet of Things vision with Memristive Technologies”
- 10:00 – 10:30 **Nicolas Wainstein**, “Reconfigurable RF Circuits using Memristors”
- 10:30 – 11:00 [Coffee Break](#)
- 11:00 – 12:00 **Keynote: Giacomo Indiveri**, “A mixed-signal neuromorphic computing architecture in 28 nm FD-SOI technology”
- 12:00 – 12:30 **Loai Danial**, “Neuromorphic Data Converters using Memristors”
- 12:30 – 14:00 [Lunch Break](#)
- 14:00 – 14:30 **Alon Ascoli**, “Theoretical foundations on Memristor Cellular Nonlinear Networks”



- 14:30 – 15:00** **Francisco Jimenez-Molino**, “Simulation and physical compact modelling of resistive switching devices”
- 15:00 – 15:30** **Jessamyn Fairfield**, “Memristive Colloidal Nanomaterials for Neuromorphic Devices”
- 15:30 – 16:00** **Coffee Break**
- 16:00 – 16:15** **Ioana Vatajelu**, “Reliable Emerging Memories for Dependable Computing Architectures”
- 16:15 – 16:30** **Andreas Andreou**, “Memristor Devices in Systems: A Computer Architecture Perspective”
- 16:30 – 16:45** **Tomislav Matic**, “Wireless sensing based on time encoding machines ”
- 16:45** **Meeting Closure and final remarks**

