WORKSHOP ON MOBILE SYSTEM TECHNOLOGIES
Architectures, technology trends and memory solutions
4th edition

November 23, 2018 | 9:30

Politecnico di Milano, Aula Rogers | Via Ampère 2, Milano

Join us for the **4th WORKSHOP ON MOBILE SYSTEMS TECHNOLOGIES (MST 2018)**. MST workshops bring together **researchers**, **professionals**, and **industrial engineers** with an interest in **technologies for mobile systems**. The fourth edition offers a comprehensive view on architecture models, technology trends, and memory solutions enabling personal and industrial mobile systems, including smartphones, tablets, smartwatches, IoT devices. The interest is on the role that memory and storage subsystems play upon system performance, energy, dependability, security, and functionalities.

9.00 Registration

9:30 Opening remarks
Mariagiovanna Sami, Politecnico di Milano
Luca Breveglieri, Politecnico di Milano
Paolo Amato, Micron Semiconductor Italia

9:45 Keynote I
Changing the computing paradigm for high efficiency
Onur Mutlu, ETH Zurich

10:45 Coffee Break

Session I: Architectures and data processing
for mobile devices and IoT

11:00 Going to the edge, making microcontrollers AI capable with dedicated HW acceleration – **Giuseppe Desoli**, STMicroelectronics
11:30 Towards deep neural networks on low-power devices – **Andrea Calimera**, Politecnico di Torino
12:00 Neural networks on the edge: PowerVR's strategies for efficient inference – **Salvatore De Dominicis**, Imagination Technology
12:30 MQTT+: enhanced syntax and broker functionalities for data filtering, processing and aggregation – **Matteo Cesana**, Politecnico di Milano

13:00 Lunch

14:00 Keynote II
Secure near-sensor analytics: the PULP approach
Luca Benini, ETH Zurich and Università di Bologna

15:00 Coffee Break

Session II: Security for mobile devices and IoT

15:15 Hardware security in the modern integrated circuits: attacks and prevention – **Guido Bertoni**, Security Pattern
15:45 Securing the connectivity of IoT devices – **Ruggero Susella** and **Adriano Gaibotti**, STMicroelectronics
16:15 Security for classic devices in a post-quantum world – **Alessandro Barenghi**, Politecnico di Milano

16:45 Closing remarks and farewell

Registration at www.mstworkshop.eu

For more information, please contact us at

comunicazione@fondazione.polimi.it

Event organized by

Foundation Micron® POLITECNICO MILANO 1863 **AEIT 1897** **AMES** Society AEIT Microelettronica Elettronica Semiconduttori Fondazione Politecnico di Milano