

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

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