

2ND WORKSHOP ON MOBILE SYSTEM TECHNOLOGIES

Architectures, technology trends and memory solutions

September 23, 2016 | 9.00

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

Join us for the 2nd **WORKSHOP ON MOBILE SYSTEM TECHNOLOGIES (MST 2016)**. The MST workshop series is meant to bring together researchers, professionals, and industrial engineers with an interest in the technologies for mobile systems. This second edition aims at providing **a comprehensive view on architecture models, technology trends, and memory solutions in evolving mobile systems**, like smartphones, tablets, and smartwatches. The interest is on the role of the memory and storage subsystems upon system performance, energy, dependability, security, and functionalities.

Ordine degli Ingegneri di Milano will award 3 credits (CFP) to the participants.

The conference will host **business demo section** and a **graduate student poster section**.

SCHEDULE

8.30 Registration

9.00 Welcome

Donatella **Sciuto**, Politecnico di Milano

9.10 Workshop Introduction

Marco **Dallabora**, Micron Technology

9.30 Keynote I

Rethinking Memory System Design - Onur **Mutlu**, Carnegie Mellon University

10.20 Coffee Break

10.35 Session: Architecture I

10.35 *Memory and storage in mobile: a glance under the hood* - Danilo **Caraccio**, Micron Technology

11.00 *MIPI Alliance: the interfaces for mobile and beyond* - Joel **Huloux**, STMicroelectronics and Chairman of MIPI Alliance

11.25 *The application of mobile technologies into the data-centre and IT infrastructure* - John **Goodacre**, University of Manchester and Kaleos

11.50 *A new era in mobile GPUs: the increasing relevance of energy efficiency, security and virtualization* - Salvatore **De Dominicis**, Imagination Technology

12.15 Lunch

13.30 Keynote II

Future Non-Volatile Memories: Technology Trends and System Aspects - Evangelos **Eleftheriou** and Haris **Pozidis**, IBM Zurich

14.20 Session: Mobile Security

14.20 *Security, Trust, Counterfeiting: It Makes You PUF!* - Giorgio **Di Natale**, LIRMM

14.45 *Physical Unclonable Functions for sensors on mobile and low constrained remote devices* - Georgios **Selimis**, Intrinsic-ID

15.10 *Quality metrics for PUF* - Philippe **Nguyen**, Secure IC

15.35 Coffee Break

15.50 Session: Architecture II

15.50 *Mobile application optimization* - William **Fornaciari**, Politecnico di Milano

16.15 *Enabling on-line dependability measurement of Android devices* - Marcello **Cinque**, Università di Napoli Federico II

16.40 *Smart cyber-physical systems: the new frontier of distributed embedded systems* - Manuel **Roveri** and Danilo **Pau**, STMicroelectronics

17.05 *Rethinking file system abstractions in mobile* - Francesco **Tisato**, Università degli Studi di Milano-Bicocca

17.30 Workshop closure

Online registration: www.mstworkshop.eu

For more information: comunicazione@fondazione.polimi.it