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

May 22, 2015 | 9.00

Politecnico di Milano | Aula Magna | Piazza Leonardo Da Vinci, 32, Milano

Join us for the 1st **WORKSHOP ON MOBILE SYSTEM TECHNOLOGIES (MST)**. This workshop aims at providing a comprehensive view on architecture, technology trends and memory solutions in evolving mobile systems (like smartphones, tablets, phablets, and smartwatches). The interest is on memory and storage sub-systems role upon system performance, energy, dependability, security, and functionalities.

The 1st **MST** workshop will be structured in two sessions:
• The first session will tackle the complexity of mobile systems from different points of view: SoC architectures, operating systems, energy consumption, storage and memory sub-systems, and memory technology;
• The second session will focus on security, a key emerging topics in mobile systems. It will cover software and hardware infrastructures, and threats in mobile.

SCHEDULE

9.00 Registration

9.40 Welcome
Donatella **Sciuto**, Politecnico di Milano

9.45 Workshop Introduction
Marco **Dallabora**, Micron Technology

10.00 Keynote
Advance mobile compute subsystems, heterogeneous and low-power - John **Goodacre**, ARM

10.45 Coffee Break

10.55 Session: Architecture I

10.55 *Latency in 5G networks* - Lorenzo **Di Gregorio**, Intel Mobile

11.20 *Extending NAND life with advanced controller technology* - Lin **Wei**, Phison

11.45 *Emerging memory technologies vs mainstream: challenges and opportunities* - Giorgio **Servalli**, Micron Semiconductor

12.10 *Linaro - building the future of open source software on ARM* - Ulf **Hansson**, Linaro

12.35 *About I/O scheduling and application responsiveness and latencies* - Paolo **Valente**, Università degli Studi di Modena e Reggio Emilia

13.00 Lunch

14.00 Session: Architecture II

14.00 *Power management in battery powered handheld portable applications* - Stefano **Saggini**, Università degli Studi di Udine

14.25 *Mobile memory systems* - Emanuele **Confalonieri**, Micron Semiconductor

14.50 Session: Focus on Security I
Luca **Breveglieri**, Politecnico di Milano

15.00 *Permutation-based cryptography for resource-constrained applications* - Guido **Bertoni**, STMicroelectronics

15.25 *Security challenges at hardware design time for mobile systems* - Francesco **Regazzoni**, ALaRI

15.50 *Secure mobile devices: from smart cards to smart phones* - Marco **Macchetti**, Nagra

16.15 Coffe break

16.30 Session: Focus on Security II

16.30 *Static and dynamic techniques for Android malware detection: an empirical path* - Aaron **Visaggio**, Università degli Studi del Sannio

16.55 *Forging the USB armory* - Daniele **Bianco**, Inverse Path

17.20 *Network measures to improve the security of mobile devices communications* - Corradino **Corradi**, Vodafone

17.45 *Wolf! Wolf! So much malware. So little malware* - Federico **Maggi**, Politecnico di Milano

18.10 Workshop closure

Online registration: **www.mstworkshop.eu**

For more information: **comunicazione@fondazione.polimi.it**