

**Ph.D. in Information Technology
Thesis Defense**

**September 7th, 2022
at 14:15
Beta Room (Bld 24)**

Octavian MELNIC – XXXIII Cycle

"Characterization and Modeling of Embedded Phase Change Memory Devices"

Supervisor: Prof. **Daniele Ielmini**

Abstract:

The dissertation focuses on the reliability of Phase Change Memory devices, an emerging memory technology especially promising as eFlash replacement for automotive-grade microcontrollers. The thesis also illustrates promising applications of Phase Change Memory as a fundamental part of hardware AI accelerators.

PhD Committee:

Prof. Giacomo Langfelder, DEIB-Politecnico di Milano

Prof. Carlo Ricciardi, Politecnico di Torino

Prof. Cristian Zambelli, Università degli Studi di Ferrara