

SMARTPHONES AND AUGMENTED REALITY FOR MEASUREMENT APPLICATIONS

Pasquale Daponte

- Evolution of mobile phones
- Smartphone Architecture
- Smartphone Sensors
 - Classification
- Smartphone based Measurement Instrument (SPMI)
 - Application fields
 - Embedded SPMI
 - SPMI Interface
- Smartphone ever more as measurement systems
- Augmented reality and smartphone
 - Measurement applications

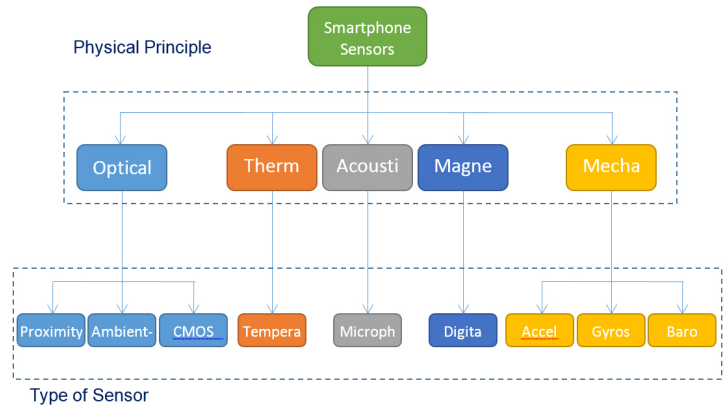


Figure 1 Classification of Smartphone Sensors

SIGNAL PROCESSING BLOCKS IN ANALOG DOMAIN

Linus Micheli

Sensor technologies:

- Active pixel sensor Image sensor
- Mikromechanical
- Biochip
- Capacitance, Inductive and resistance sensor
- Digital sensors
- Electromechanical
- Electro-optical sensor
- Intelligent sensor
- Lab-on-a-chip
- Quantum sensor
- RADAR
- Ultrasonic sensor
- Wireless sensor network

