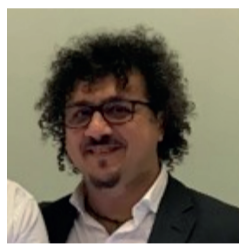


UNIVERSITÀ CAMPUS BIO-MEDICO DI ROMA

Laboratorio di Misure e Strumentazione Biomedica

Wireless Industrial Sensor Networks Workshop



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Abstract:

The ballooning IoT phenomena today encompasses wide ranging application scenarios in many sectors, including Smart Cities, Home & Building Automation, Smart Things, Asset Tracking and Industry 4.0. The key elements behind this growth story include the miniaturized and more intelligent sensing and processing hardware based on silicon technologies, several robust and reliable connectivity protocols, and highly refined signal conditioning and power and energy management.

The Smart City, Home & Building Automation strategy for a more efficient and sustainable society involves interfacing state-of-the-art metering ICs featuring highly accurate monitoring and control functionality with broader systems integrating microcontrollers, sensors, safety and protection devices in wireless and power-line transmission networks.

In Industry 4.0, the concept of Predictive Maintenance to improve industrial tool management is also gaining traction. This technology involves the diagnosis of key symptomatic indicators to allow advanced planning of costly machine care and maintenance, in order to reduce unnecessary or untimely downtime and avoid unrecoverable failures.

ST is well positioned to address these markets with state-of-the-art technologies and a wide range of products, thanks to its profound understanding of the building blocks associated with each of these ecosystems.

KEYWORDS:

#MCU, #ARM, #Cortex

#Connectivity, #NFC, #RFID #Bluetooth, #BLE mesh, #RF Sub-GHz, #Sigfox, #LoRA,

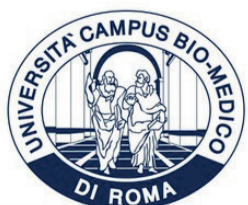
#Sensors, #MEMS, #Motion, #Environment, #ToF, #Proximity, #Microphone

Biography

Filippo Colaianni received his M.S. degree in Engineering from the University of Catania, in 2001. He is currently the Technical Marketing Manager at STMicroelectronics, for IoT, Smart City and Home Building Automation, Asset Tracking applications segments. He is responsible for project management, promotion and demand creation for IoT and Industry 4.0, and has accumulated a deep working knowledge of ARM Cortex-M MCU, Connectivity and Sensors products in this role.

Seminario

IEEE
Sensors Council
ITALY CHAPTER



UCBM Student Branch

Giovedì 11 giugno 2020 - ore 12:00

Aula R3 - PRABB

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