

2019 IEEE INTERNATIONAL WORKSHOP ON Metrology for Industry 4.0 and IoT

NAPLES, ITALY | JUNE 4 - 6, 2019



CALL FOR PAPERS for the Special Session on **METROLOGY, SENSORS AND DATA MANAGEMENT FOR HEALTHCARE 4.0**

ABSTRACT

Hospital is facing many challenges including public expenditure cuts, technological changes, and growing patient centeredness. The digital innovation on the healthcare industry, known as Healthcare 4.0, is impacting in this transformation, giving strong aids in finding a right balance among decentralized hospital services, prevention promotion, technological innovation, remote monitoring, and patient-tailored care, and support for wellbeing and active aging. Wearable systems and sensors in conjunction with cloud computing services, automation, and tools for modeling complex systems and analyzing big data are needed.

This special session is an opportunity of interaction for researchers working on the development of miniaturized sensors for wearable applications, their fabrication process, characterization and their exploitation in medical scenarios. Data management, fusion, optimization, analysis and protection for IoT systems of sensors overlapping clinical infrastructures is an open area of research and this special session aims at facilitating the discussion on these and related topics.

TOPICS

Papers dealing with research related to the following topics are welcome:

- Miniaturized Sensors for patients monitoring
- Sensors for physiological parameters monitoring
- Minimally invasive and non-invasive measurements techniques
- Measurements based on diagnostic imaging techniques for medical applications
- IoT and data management systems design for hospital
- Data management optimization and fusion for IoT sensors
- Techniques for data protection and encryption for IoT sensors

This Special Session has been organized under the auspices of the IEEE Sensors Council Italy Chapter.



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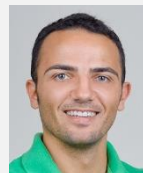
Naples is a city on the sea, a place full of light yet with dark, hidden foundations. It has a great cultural and artistic identity which is stamped on the brow of its many museums, castles, churches, squares, narrow streets and archaeological remains. Naples is noted for its rich history, art, culture and gastronomy and, in the modern day, the historic centre of the city is listed by UNESCO as a World Heritage Site.

ORGANIZERS



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