



2020 IEEE INTERNATIONAL WORKSHOP ON Metrology for Industry 4.0 & IoT

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CNR - NATIONAL RESEARCH COUNCIL
HEADQUARTERS - **Piazzale Aldo Moro**

CALL FOR PAPERS for the Special Session on WEARABLE DEVICES FOR PHYSIOLOGICAL MONITORING

ORGANIZERS



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Wearable Technology is becoming increasingly popular in monitoring physiological signals. The measurements of these physiological variables can range from monitoring heart rate, respiratory pattern, respiratory rate, oxygen level concentration in the main bloodstream, blood pressure to ECG. Monitoring of these signals is not only crucial in the healthcare and industry areas but also plays a key role in day to day screening of an individual and thereby facilitating early detection and diagnosis of life-threatening diseases.

The special session aims in discussing novel techniques on unobtrusive wearable sensors and systems for physiological monitoring. It will also focus on the novel techniques that aim to improve the accuracy and the reliability of these contact or non-contact based measurements targeting particularly for long term monitoring of the physiological signals.

Submissions are welcomed on (but not limited to):

- Wearable devices
- Contact-less measurement systems
- Metrological characterization of sensors for physiological monitoring
- Metrics, algorithms and signal processing techniques
- Physiological variables, signals, and techniques
- Internet of things for wearables and unobtrusive monitoring systems, networking and interoperability
- Reliability, validity, and accuracy of sensors and measuring systems
- Processing for accurate signal estimation



MetroInd4.0&IoT 2020

www.metroind40iot.org/special-session-2

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