



# 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 ADVANCED MEASUREMENT SYSTEMS FOR **SAFETY AND SECURITY**

Intelligent monitoring infrastructures are playing a day-by-day more crucial role for the protection of people against both unintended hazards (i.e., the safety) and deliberate threats (i.e., the security), within several application scenarios. From industrial safety to environmental and urban security, advanced measurement systems are required to collect in real-time a large quantity of data from different sources and about a plethora of different physical phenomena. Together with the sensors, also the data acquisition, processing and transmission platforms require to be shaped in order to satisfy the strict requirements in terms of data protection, accuracy, reliability and availability that are required when dealing with such a delicate task as the protection of citizens.

Advanced measurement systems for safety and security include then mobile data acquisition platforms like unmanned vehicles, wireless distributed monitoring systems, environmental pollution monitoring, anti-intrusion systems and any other kind of technological infrastructure whose task is to detect the possible occurrence of events that may threaten in some way the safeness of people, in any kind of environment, from the industrial to the urban one, including the homes and the private buildings.

### MAIN TOPICS


Topics of interest include but are not restricted to:

- Sensors for industrial and environmental monitoring
- Sensors for pollution monitoring
- Smart City architectures for safety and security
- Wireless Sensor Networks for safety and security
- Unmanned vehicles for safety and security
- Measurement systems for critical scenarios
- Real-time measurement systems
- Intrusion detection systems
- Novel design, metrological characterization, pre-post processing methods for sophisticated application (i.e., instruments, virtual instruments)
- Novel data acquisition systems and methods

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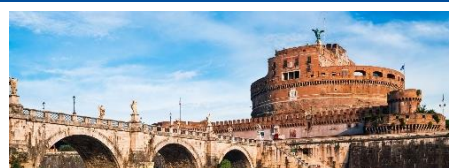
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