



# 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 MEASUREMENTS AND VIRTUAL MEASUREMENTS FOR INDUSTRY 4.0: APPROACHES AND SOLUTIONS FOR SMART MANUFACTURING

Smart manufacturing involves many innovative requirements: a tight connection between physical and digital systems (the cyber-physical world), the capability of managing and processing in nearly real time very huge amount of data (Big Data), the ability of managing production plans in a very flexible way with reference to strongly automated and interconnected production lines (M2M). Further, the interactions between man and machine (H2M) change, to enhance the process/product quality.

All these requirements ask for new approaches for measurement systems and techniques in order to make effective the capability of transforming data into useful information for decision makers. Integration of techniques concerning virtual testing and measurements seems to be very interesting from both a technical and economical point of view.

All the steps of the measurement process are involved: transducer selection and installation, sensor calibration, system modelling and its interaction with sensors, sensor fusion and networking, data acquisition and data processing methods and algorithms, measurement uncertainty modelling and management.

Management of measurement systems and validation techniques are also noteworthy in this scenario.

### ORGANIZERS



**Giulio D'Emilia**

*University of L'Aquila, Italy*

[giulio.demilia@univaq.it](mailto:giulio.demilia@univaq.it)



**Antonella Gaspari**

*University of L'Aquila, Italy*

[antonella.gaspari@univaq.it](mailto:antonella.gaspari@univaq.it)



**Emanuela Natale**

*University of L'Aquila, Italy*

[emanuela.natale@univaq.it](mailto:emanuela.natale@univaq.it)

[www.metroind40iot.org/special-session-4](http://www.metroind40iot.org/special-session-4)  
[info@metroind40iot.org](mailto:info@metroind40iot.org)



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