



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 FIBER OPTIC SENSORS FOR INDUSTRY AND **HEALTHCARE 4.0**

The use of fiber optic sensors (FOSs) has gained broad acceptance in many industrial applications and growing interest in healthcare and clinical branches. This technology allows developing sensors with high performance in terms of accuracy, sensitivity, and bandwidth, able to perform distributed measurements, as well as suitable for applications in harsh environments. These features and the possibility to develop small-sized sensing elements, make FOSs an emerging solution for monitoring physical parameters in industrial applications and in clinical practice.

This special session is devoted to the description of metrological properties of FOS as well as on novel techniques and applications of these sensors in industry and healthcare. The session also aims at giving an opportunity of interaction for scientists, researchers, and clinicians focusing on the development, characterization and use of FOSs.

MAIN TOPICS

Paper submissions are welcome on (but not limited to) the following topics:

- New techniques for metrological characterization of FOSs;
- FOSs applications in healthcare;
- FOSs applications in industry;
- Techniques of distributed measurements and applications in industry and healthcare;
- Physiological monitoring of FOSs;
- Health state monitoring by FOSs;
- Optical fiber biosensors

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