Special Issue

Next Generation of Measurement Sensors and Instruments Based on Embedded Artificial Intelligence

Message from the Guest Editors

The combined use of the Internet of Things (IoT) and artificial intelligence (AI) has opened new, previously unimaginable opportunities. AI-based applications have resulted in being effective and flexible in disparate domains. IoT increases the value of AI through the ability to collect data with training models and algorithms, and vice versa, AI increases the value of IoT thanks to the transformation of collected data into useful information. To speed up the response, data produced by sensors and IoT devices must be analyzed directly at the edge, close to where the data are located and near the user, rather than being sent to a central location for later analysis. This new model is commonly identified as edge or embedded AI. Embedded AI can be exploited to enhance both static and dynamic metrological characteristics of smart sensors, overcoming typical limitations they suffer from, and will find applications in numerous scenarios. For more information, please click: mdpi.com/si/138105

Guest Editors

Dr. Francesco Bonavolontà

Department of Electrical Engineering and Information Technology, University of Naples Federico II, 80125 Naples, Italy

Prof. Dr. Flora Amato

Department of Electrical Engineering and Information Technology, University of Naples Federico II, 80125 Naples, Italy

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Sensors
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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