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Calibration and Traceability in Sensor Networks

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Message from the Guest Editors

The growing attention towards human-related issues such as energy saving, safety monitoring, and pollution measurement, combined with the requirements of smart manufacturing, have driven the development of data-acquisition systems with a large number of embedded sensors. These data acquisition systems are often configured as sensor networks or more recently as networks composed of IoT sensor nodes, thus taking advantage of well-established digital architectures and optimized communication protocols. However, a problem still remains open related to the traceability assurance of the measurements provided by single nodes of a sensor network or by a set of nodes that cooperate to provide the quantities under measurement. The common calibration procedures that are implemented for stand-alone instruments are not suitable for sensor networks that can include hundreds or thousands of nodes and that can also be distributed over a wide area. This Special Issue is addressed to innovative calibration paradigms that can be effective in ensuring the traceability of systems that cannot be managed according to existing calibration procedures.



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Special Issue



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Message from the Editor-in-Chief

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