

Special Issue

Smart Measurement Architectures and Autonomous Sensors: Emerging Techniques, Nonlinear Features, Future Trends

Message from the Guest Editor

The purpose of this Special Issue is to publish high-quality research articles as well as reviews that address recent developments, progresses on theories, principles, methodologies of transduction/sensing, and techniques regarding smart measurement architectures and autonomous solutions, in addition to the relevant prospects, opportunities, and challenges in this field. We welcome submissions on a wide range of topics that include, but are not limited to:

- Self-powered and autonomous or quasi-autonomous sensors;
- Smart solutions in measurements systems;
- Novel methodologies of measurement based on nonlinear behaviors;
- Wake-up solutions and “zero-current” stand-by methods;
- Smart energy harvesting;
- Smart techniques for non-destructive analyses and non-invasive measurements;
- Linear and nonlinear mechanisms and techniques;
- Emerging technologies and methods for energy harvesting;
- Low-power conditioning circuits for sensors;
- Nonlinear electro-mechanical transducers.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

The realization of dedicated instrumentation has always been a collateral aspect of experimental research. In addition, many groups dedicate efforts and resources solely to the development of new devices, sensors, equipment and large infrastructure, theoretical and numerical studies, and novel experimental methodologies. With *Instruments* we wish to address both established and emerging communities, also to favor the creation of innovative trans-disciplinary approaches. We see *Instruments* as an exciting high-impact journal that will soon hold a leading position in disseminating cutting edge scientific and technological research.

Editor-in-Chief

Prof. Dr. Antonio Ereditato

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