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Advanced Transducers and Systems for Voltage and Current Measurement

Guest Editors:

Prof. Dr. Carmine Landi

Department of Engineering,
University of Campania “Luigi
Vanvitelli”, 81031 Aversa (CE),
Italy

Prof. Dr. Daniele Gallo

Department of Engineering,
University of Campania “Luigi
Vanvitelli”, 81031 Aversa (CE),
Italy

Dr. Mario Luiso

Department of Engineering,
University of Campania “Luigi
Vanvitelli”, 81031 Aversa, Italy

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Message from the Guest Editors

With the advance of power electronics technologies, transducers have to work on a wide range of frequencies, which is posing new and unexpected problems for designers and developers to solve. To this end, research efforts are developing new technologies for voltage and current sensing or digital signal processing techniques to improve the performance of existing voltage and current transducers. In addition, the accuracy assessment of voltage and current sensors is currently a challenging aspect, especially for power applications, in the wide sense of the term, since due to their metrological characterization, accurate generation and measurement of high voltage and current values in a wide frequency range are required. Moreover, another challenging aspect for voltage and current sensing comes from the introduction of digital substations into electrical power systems, which require sensors with digital output.

This Special Issue is focused on advanced voltage and current sensing techniques, including accuracy verification, and calibration and techniques for performance improvement, for all applications in the energy and e-mobility fields.



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Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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