

Special Issue

Advanced Electronic Systems for Energy Measurement and Metrology

Message from the Guest Editors

Accurate power and energy measurement is a cornerstone for technological advancement across various industrial, medical, and scientific sectors. Metrology, when applied to electronic data acquisition systems, plays a fundamental role in electrical power grids, as well as broader contexts such as industrial and medical lasers, high-intensity magnetic field generators, microwave systems, high-power devices, advanced research environments, and the Internet of Things. The development of reliable measurement techniques and robust acquisition systems is essential to ensure quality, safety, and innovation. The integration of smart sensors, high-speed electronics, signal processing algorithms, and metrological calibration opens new possibilities for characterizing energy phenomena across different scales and applications. We invite researchers and professionals in the field to submit original articles and comprehensive reviews exploring recent advances, challenges, and future perspectives in metrology and electronic data acquisition systems, focusing on power and energy in a broad sense.

Guest Editors

Prof. Dr. Joao L. Afonso

Dr. João Paulo Pereira do Carmo

Dr. Vítor Monteiro

Dr. José A. Afonso

Dr. Gabriel Augusto Ginja

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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