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Advances in Synchronized Measurements Technologies in Smart Grids

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Deadline for manuscript submissions:
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Message from the Guest Editors

Synchronized phasor measurement technology has grown rapidly in the last decade, with more and more Phasor Measurement Units (PMUs) and Wide Area Monitoring Systems (WAMSs) being deployed around the world. Their main features and advantages are their ability to measure all electrical values including phasors of voltages and currents, frequency, and the rate of change of frequency (ROCOF) with high accuracy even in nodes located far from the control centre.

The objective of this Special Issue is to address issues related to the implementation of synchronized power system measurements in real-time applications in electric power systems, either in the area of real-time power system state identification (e.g., dynamic security assessment), real-time adaptation of protection and control (WAMPAC) or innovative synchrophasor, frequency and ROCOF estimation algorithms. Applications of synchronized measurements and analysis of the impacts of their accuracy as well as considerations for future scenarios are also in the focus of this Special Issue.

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Message from the Editor-in-Chief

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