Phasor Measurement Units: Algorithms, Challenges and Perspectives

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Message from the Guest Editor
Dear Colleagues,

The relevance of power converters in energy processing applications has seen growth in the last years with the proliferation of distributed generation, microgrids, and power quality compensation applications. This trend is related with recent advances in the control of the power converters. In particular, DC–AC converters require the tracking of sinusoidal references to produce high-quality voltage in the case of stand-alone applications or high-quality current in the case of grid-connected inverters.

The aim of this Special Issue is to provide a means of interaction between power electronics and control specialist communities which compile the state of the progress in the control of DC–AC converters from theory to real implementation. We expect contributions related but not limited to the development of performant techniques to control emerging topologies or improvement of existing control techniques to increase power quality and efficiency levels or integration of multiple algorithms facilitating multimode operation of a single conversion device.

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