

Special Issue

Wide Area Monitoring, Protection and Control of Modern Power Systems

Message from the Guest Editor

Generation from distributed renewable energy sources (RES), and continuous growth in energy consumption set economic profit ahead of technological requirements as a determining factor in strategic decisions of power system development. This challenge requires new technological solutions that will be able to meet the demands of real-time monitoring, protection, and control.

Wide area monitoring, protection and control (WAMPAC) is a concept that uses synchronized measurement technology (SMT) to counteract the propagation of large disturbances. WAMPAC is expected to improve security and reliability of power system operation in addition to mitigating disturbances and preventing blackout.

WAMPAC measurement data enable real-time monitoring, and it can be used as an early warning system that gives the operator enough time to make the steps required for system stability in order to limit the range and impact of disturbances and prevent power system blackouts.

The aim of this Special Issue is to present advanced and innovative technical solutions which will emphasize the monitoring, protection, and control of modern power systems.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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