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Condition Monitoring of Critical Infrastructure for Energy Systems

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Message from the Guest Editors

A condition monitoring system uses sensors, communication and data analytics to acquire physical parameters of critical infrastructures in order to analyze and detect anomalies and keep track of the health of the energy systems. Combining sensor measurements with machine learning algorithms can predict the exact moment when maintenance actions should be taken. Condition monitoring of critical infrastructure for energy systems will open up the path to increasing return on investment, reducing maintenance cost, eliminating breakdown and downtime, and enhancing productivity. It will also be conducive to the cyber-physical safety of power systems.

This Special Issue aims to provide articles on condition monitoring of critical infrastructure for energy systems in areas including, but are not limited to:

- energy transmission and distribution;
- energy generation;
- energy storage;
- energy utilization;
- smart grid;
- smart city;
- microgrid.



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Special Issue



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Message from the Editor-in-Chief

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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