Special Issue

Distributed Control of Wind Farm System

Message from the Guest Editor

The mature wind power technologies lead to rapid growth in utility-scale wind power generations. Since large-scale wind farm projects range from hundreds up to thousands of multi-MW wind turbines, traditional wind farm control implemented in a supervisory computer will require significant computing power to produce setpoints for every wind turbine. Instead of using a centralized controller for the entire wind farm, modern wind farms can be managed in a distributed manner like smart grids, in which the desired global behavior of the wind farm system can be achieved by the coordination of all turbines. Distributed control of wind farms has shown great potential as it enhances system resilience and reduces the computational burden. The goal of this Special Issue is to promote new research concepts and achievements in the distributed control of wind farms.

Guest Editor

Dr. Thai-Thanh Nguyen
Department of Electrical and Computer Engineering, Clarkson University, Potsdam, NY 13699, USA

Deadline for manuscript submissions

closed (30 November 2022)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/77845

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

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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