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Intelligent Control and Optimization Technologies in Power Generation Systems

Guest Editors:

Prof. Dr. Xi Chen
School of Mechanical Engineering/New Energy Research Institute, Hunan Institute of Science and Technology, Yueyang 414006, China

Dr. Jia Liu
School of Civil Engineering, Guangzhou University, Guangzhou 510006, China

Dr. Yuxuan Ding
Department of Building Environment and Energy Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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Message from the Guest Editors

Dear Colleagues,

Currently, renewable energy and traditional fossil energy constitute the primary bases of power provision. High energy conversion efficiency plays a key role in power generation systems and can both improve the power generation and decrease the pollutant emissions. More importantly, intelligent control and optimization technologies are efficient ways of improving the performance of power generation systems with low cost and high efficiency.

The scope of this SI includes the following:

power generation system; renewable energy system; fuel cell; hydrogen power system; solar energy power system; energy storage devices; batteries; distributed energy resources; intelligent modeling on energy system; multi-objective evaluation and optimization; machine learning and deep learning; big data technology; power transmission technologies; building energy system; new energy vehicles; water and heat management in fuel cell; dynamic control in new energy system; robust control in new energy system; digital twin technique.

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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