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Advances in Modeling, Control and Protection of Power System Containing a High Proportion of Power Electronics

Guest Editors:

Dr. Jianguan Liao

College of Electrical Engineering, Sichuan University, Chengdu 610065. China

Dr. Xiaoxiao Meng

School of Electrical Engineering and Automation, Hefei University of Technology, Hefei 230008, China

Dr. Xiaonan Zhu

College of Electrical and Information Engineering, Hunan University, Changsha, China

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Message from the Guest Editors

Dear Colleagues,

In power systems with a high proportion of power electronic devices, significant changes have taken place in regard to modeling, control, and protection. On the one hand, since the fault response of power electronic equipment and the electromagnetic transient process of the power grid occur in the same time scale, it is difficult to accurately analyze the fault characteristics. Therefore, the difficulty of fault identification has been significantly increased. On the other hand, the coexistence of AC and DC power grids makes their dynamic characteristics influence each other. Additionally, the widespread utilization of power electronic equipment in the power grid improves not only the flexibility of the system operation, but also the correlation between the fault response characteristics of the power grid and the control strategy of power electronic equipment.

This Special Issue will address new challenges and present and disseminate novel technologies related to the design, modeling, and simulation for the planning, operation, control, and protection of distribution power grids with a high share of renewable energies.











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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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