Special Issue

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

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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