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Dynamic Protection of Power Systems with a High Penetration of Renewables

Guest Editor:

Prof. Dr. Taha Selim Ustun

Head of Power System Automation and Cybersecurity Lab, Fukushima Renewable Energy Institute, Fukushima 963-0298, Japan

Deadline for manuscript submissions: closed (26 March 2023)

Message from the Guest Editor

A constant increase in renewable energy deployments and nonconventional technology has changed the operation paradigms of power systems. Bilateral power flows, fault contribution of distributed generators, and the unknown fault behavior of new equipment call for fundamental changes in protection approaches.

This Special Issue is aimed at covering different aspects of ground-breaking protection system designs to achieve deep penetration of renewable and clean energy systems. In this regard, papers are solicited in, among others, the following topics:

- Advanced communication solutions between protection equipment;
- Novel implementation of nature inspired algorithms for protection coordination;
- Power electronics design and control for improving fault behavior of inverters;
- Standardized communication solutions for interoperability, such as IEC61850 and IEEE 1547;
- Cybersecurity considerations to ensure proper operation;
- Edge-computing-based solutions for intelligent protection.





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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Sustainability Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/sustainability sustainability@mdpi.com X@Sus_MDPI