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Control of Renewable Power Generation and Microgrids

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Message from the Guest Editor

Dear Colleagues,

With the worldwide interest in reducing the environmental effects of hot house gases, renewable power generation has gained a big impetus with the importance gained by renewable energy generation. The development of microgrids began a couple of decades ago, and they can operate as an independent source of energy capable of operating in grid connected or isolated mode, allowing critical facilities to operate in case of emergencies or grid outages and ensuring delivery of high-quality reliable electricity. Microgrid technology has come a long way towards maturity, even though new developments, particularly in the control of renewable power generation and microgrids, continue to take place in support of increasing needs of reliability and resilience.

This Special Issue is planned to cover the control of renewable power generation, AC, DC, and hybrid AC/DC microgrid under different situations for both islanded and grid-connected modes, and microgrid operation optimization to enhance reliability while maintaining power quality performance indicators. This Special Issue will include review articles, original papers, communication, perspectives, etc.

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Message from the Editor-in-Chief

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