



Advanced Applications of Power Conversion Systems and Power Generation

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submissions:
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Message from the Guest Editors

Dear Colleagues,

With increasing regulatory ambition (e.g., EU green deal) and voluntary (e.g., corporate) commitments for decarbonization, sustainability and low-carbon energy transition have become a major worldwide priority.

Building a renewable-based green power system would be critical to achieving low-carbon energy transition, due to the rapidly increasing electrification taking place across sectors (such as EVs, industrial heat pumps and buildings electric boilers). Power will become the new fuel powering all demand sectors directly or indirectly (e.g., electrolysis-based hydrogen production).

Given this context, this work aims to investigate the ecosystem of new power systems to accommodate high penetration of renewables and integrate distributed energy resources from micro-grids, focusing on how to improve the reliability, efficiency and economics for such a system through optimizing and developing new power electronics solutions.

This Special Issue intends to seek high-quality submissions that present emerging applications and recent breakthroughs in power conversion systems and power generation.





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Message from the Editor-in-Chief

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