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Advanced Control Techniques for Power Converters

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Deadline for manuscript submissions:

closed (31 May 2018)

Message from the Guest Editors

Nowadays, power electronic converters are pervasive in any kind of electrical power conversion, electrical power quality applications, renewable power generation and driving of electrical machines. Furthermore, the required dynamic performance of the converters in these applications is becoming more demanding making necessary the development and application of more sophisticated and new control techniques to meet these new requirements.

Topics of interest for publication include, but are not limited to:

- New modelling approaches for power converters in grid applications.
- Nonlinear and passivity-based control of power converters.
- Sliding-mode and relay feedback-based control of power converters.
- Predictive control and optimization-based control of power converters.
- Continuous-time and discrete-time robust control.
- Advanced digital control of power converters.
- Distributed and networked control of power converters in grid applications.
- New modelling and control techniques for smart grids.
- Stability of grids with high penetration of power converters.
- Adaptive control approaches applied to power converters.



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Special Issue



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Message from the Editor-in-Chief

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