Title: Power Converters, Drives, and Control for Sustainable Applications

Subtitle: ...

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Estimated publication date: March 2021

Scope of work:

1. Power converter topologies for sustainable applications
   - New configurations of power converters with reduced number of switches, Developments in DC-DC, AC-DC, DC-AC, AC-AC converters, multilevel converters, matrix converters and resonant converters for sustainable applications.

2. Design and development of electric drives for electric vehicle applications.
   - DC drives, AC drives, special machines and Design of electrical machines for electrical vehicle applications.

3. Control techniques for sustainable applications.
   - Linear and non-linear control techniques, Adaptive control algorithms, sensorless control, predictive control, sliding mode control and energy based control algorithms applied for power converter and electric drives.

Tentative table of contents or list of topics:

I. Trends and developments in sustainable field.
II. DC-DC Power converter topologies for sustainable applications
III. AC-DC Power converter topologies for sustainable applications
IV. DC-AC Power converter topologies for sustainable applications
V. AC-AC Power converter topologies for sustainable applications
VI. Resonant Power converter topologies for sustainable applications
VII. Design and development of electric drives for electric vehicle applications
VIII. Control techniques for sustainable applications.

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Submission to Publisher: 15.03.2021

The book will be published under the Wiley-Scrivener imprint and will be indexed by Scopus and offered to Web of Science.

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