

Special Section on:

## New Technique Trends for Power Converters in Distributed Power Generation Systems

**P**OWER CONVERTERS have been widely adopted for distributed power generation systems, where the resonances may be excited. Although many innovative methods have been put forwarded to attenuate the appeared resonances and enhance the stability of system, how to keep high performance of power converters is still a big challenge for researches and engineers, especially when the power grid is weak and full of high order background harmonics. Fortunately, owing to the rapid progress in hardwares, such as improved power devices, more and more powerful local control processors, and advanced communication techniques, many interesting topologies, control methods, and online detection techniques of power converters emerge. All these techniques will inevitably affect the deveolpment of next-generation power converters in Distributed Power Generation Systems.

Editors invite original manuscripts presenting recent advances in distributed power generation systems with special reference to the following topics:

- ✓ Control methods for multi-parallel-connected converters
- ✓ Hybrid AC-DC Microgrid
- ✓ Grid impedance estimation
- ✓ Filter design and damping techniques
- ✓ Non-linear phenomena in electric grid
- ✓ Detection and suppression of harmonics
- ✓ Resonance suppression
- ✓ EMI suppression and leakage current attenuation
- ✓ Multifrequency power transfer
- ✓ Fault ride through control for grid-tied converter

### Manuscript Preparation and Submission

Check carefully the style of the journal described in the guidelines “Information for Authors” in the IEEE- IES website: <http://www.ieee-ies.org/pubs/transactions-on-industrial-electronics>.

Please submit your manuscript in electronic form through: <https://mc.manuscriptcentral.com/tie-ieee/>.

On the submitting page, in pop-up menu of manuscript type, select: “New Technique Trends for Power Converters in Distributed Power Generation Systems”, then upload all your manuscript files following the instructions given on the screen.

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#### Timetable

Deadlines for manuscript  
submissions: **Oct. 31, 2016**

Information about manuscript acceptance:  
**Winter, 2016**

Publication Date:  
**Spring, 2017**