Special Section on:

Wireless Power Transfer for Smart Industrial and Home Applications

AS the key technique of smart industrial process and household applications, Internet of Things (IoT) connects devices via the Internet to realize the information sharing, intelligent control, remote monitoring, and data statistics *etc*., which significantly improve the intelligence, flexibility and convenience for our industrial production and daily life. Along with more and more movable electric-driving devices to join the IoT as well as the development of near field communication (NFC), the energy supply is an increasingly serious technique issue for smart industrial and home applications. Wireless power transfer exhibits increasing attractions for various electric-driving devices, where the energy can be cordlessly harnessed from soft mediums (electromagnetic field, microwave, and laser *etc*.) in air to charge the battery in dynamic states or extreme operation conditions. Accordingly, this epoch-making energy transmission technique will show significant meanings to deal with the access, exchange and management of the electric energy. This Special Section is focused on the energy system of electric-driving and IoT-enabled devices for smart industrial and household applications, including the theoretical analysis, design, control strategies, management, coordination, and communication *etc*.

Editors invite original manuscripts presenting recent advances in these fields with special reference to the following topics.

- ✓ Wireless power transfer systems for IoT-enabled devices;
- ✓ Simultaneous wireless power and data transmission;
- ✓ Wireless charging for portable electronic devices;
- ✓ Contactless charging for industrial applications;
- ✓ Energy security of contactless charging systems;
- ✓ Electromagnetic interference and environmental impacts;
- ✓ Intelligent control of power-electronic-based converters;
- ✓ Emerging and innovative applications.

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: “**SS on Wireless Power Transfer for Smart Industrial and Home Applications**”, then upload all your manuscript files following the instructions given on the screen.

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Timetable

Deadines for manuscript submissions:	Information about manuscript acceptance:	Publication Date:
Oct. 15, 2017	Summer, 2018	Winter, 2018