IEEE Transactions on Industrial Electronics

CALL FOR PAPERS

"Contactless Energy Transfer Systems"

The Theme: Modern electronic systems are compact, efficient and user friendly, and preferably powered with no physical contacts to eliminate the cumbersome conventional cable supply. As such, Contactless Energy Transfer (CET) systems are gaining global popularity and wide acceptance for numerous industrial and domestic applications over a wide power range. These CET systems are safe, and offer the advantages of high efficiency, robustness and reliability. Moreover, being unaffected by dust or chemicals or water, they are ideal for supplying power in hostile environments. The main objective of this Special Section is to present the latest advances and developments in this technology in relation to circuit topologies, design, implementation, mathematical modeling, control, computer simulation tools, and practical aspects. Topics of interest of this Special Section include, but are not limited to:

- Inductive coupled Contactless Energy Transfer (CET) systems
- Capacitive coupled Contactless Energy Transfer (CET) Systems
- New concepts and solutions of CET systems
- Multi-winding and high power CET systems
- Applications of CET systems: Electric Vehicles (EVs), battery chargers, dc-to-dc converters, single and multi-stage inverters, new converter topologies, etc
- Power electronic converters control strategies used in CET applications
- Design of electromagnetic systems for CET

Manuscript Preparation and Submission

Follow the guidelines in "Information for Authors" in the IEEE Transaction on Industrial Electronics http://tie.ieee-ies.org/tie/
Please submit your manuscript in electronic form through Manuscript Central web site: http://mc.manuscriptcentral.com/tie-ieee. On the submitting page #1 in popup menu of manuscript type, select: Contactless Energy Transfer Systems.

Timetable

Extended deadline for manuscript submissions	**February 15, 2011**
Information about manuscript acceptance	**June 2011**
Estimated publication date	**October 2011**

Guest Editors

John Boys, Department of Electrical & Computer Engineering, The University of Auckland, NEW ZEALAND, Tel: +64-9-3737599, Fax: +64-9-3737461, e-mail: *j.boys@auckland.ac.nz*
Marian P. Kazmierkowski, Warsaw University of Technology, POLAND, *mpk@isep.pw.edu.pl*
Elena Lomonova, Electromechanics and Power Electronics Group, TU Eindhoven, NETHERLANDS, *E.Lomonova@tue.nl*
Udaya Madawala, Department of Electrical & Computer Engineering, The University of Auckland, NEW ZEALAND, Tel: +64-9-3737599, Fax: +64-9-3737461, e-mail: *u.madawala@auckland.ac.nz*
Grant Covic, Department of Electrical & Computer Engineering, The University of Auckland, NEW ZEALAND, Tel: +64-9-3737599, Fax: +64-9-3737461, e-mail: *ga.covic@auckland.ac.nz*

Editor-in-Chief: **Mo-Yuen Chow,** *chow@ncsu.edu* Tel: +1-919-515-7360
Journal Administrator: **Sandra McLain** *tieadm@auburn.edu* Tel: +1-334-844-1887
North Carolina State University, ECE Department, Raleigh, NC 27695-7911, USA