



“Future Trends in Electrical Machines Technology”

Topics

This Call for Papers is mainly dedicated to authors publishing their contributions in Proceedings of the 2010 edition of the International Conference on Electrical Machines (ICEM). However, any author having something valuable to submit in these specific topics is also welcome.

Electrical machines are still key elements of any modern electromechanical system. As electrical machine technology has been in permanent evolution up to modern times, even though basic principles were established more than 180 years ago. On the other hand, ICEM is the oldest and the largest conference in the world fully dedicated to electrical machines. From the very smallest power consumption to the largest electricity production, all moving electromechanical systems need the design, manufacture, test and control of electrical machines. Therefore, industrial electronics is a key topic for electrical machines and their related environment, involving sensors, power converters and digital control circuits. Much more than in the past, the electrical machines community represented by ICEM has close interactions with other topics in the fields of electrical engineering and computer science, which this Special Section will encourage.

Topics of interest of this Special Section include both different tracks and special sessions from ICEM'2010 program:

- Induction machines – DC machines
- Wound field and permanent magnet synchronous machines - Reluctance and switched reluctance machines
- Linear machines - Levitation - Fractional power machines - Micro and nano-machines – Electrostatic and piezo-actuators
- Linear drives - Magnetic levitation
- Electrical drives
- Materials
- Theory - Modeling - Design
- Measurement – Testing – Losses and efficiency – Education
- Embedded applications
- Grid-connected and emergency applications

This Special Section has been approved and will be supported by the Technical Committee on Electrical Machines of IEEE Industrial Electronics Society.

Manuscript preparation and submission

Please do note that submitted papers coming from ICEM'2010 Proceedings cannot be proposed as post-conference papers. DO NOT RE-SUBMIT exactly the same paper with the same title as the one published in ICEM Proceedings (extension and changes are mandatory). Check carefully the style of the *IEEE Transactions on Industrial Electronics* before any submission. It has to be understood that papers have to meet the journal requirement in term of presence of application and experimental results. The submission of papers with less than 6 pages is strongly discouraged. Any paper not meeting the previous conditions will be immediately rejected.

Moreover, any author may certainly submit (at any time) a revised, improved conference paper to any IEEE Transactions. IEEE policy is that at least 30% new content should exist.

Follow the main guidelines in “Information for Authors” in the *IEEE Transactions 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 “Manuscript type”, select: **SS on Future Trends in Machines**

Timetable

Extended deadline for manuscript submission	January 31, 2010
Information about manuscript acceptance	May 2011
Estimated publication date	December 2011

Guest Editors

Aldo Boglietti, Dipartimento di Ingegneria Elettrica - Politecnico di Torino - Corso Duca degli Abruzzi, 24 - 10129 Torino, ITALY, Tel: +39 011 5647128, Fax: +39 011 5647199, e-mail: aldo.boglietti@polito.it

Gérard-André Capolino, Department of Electrical Engineering - University of Picardie “Jules Verne” – 7, rue du Moulin Neuf - 80000 Amiens, FRANCE, Tel: +33 668677122, Fax: +33 322827012, e-mail: Gerard.Capolino@ieee.org

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