

COMPEL 2006

RENSSELAER POLYTECHNIC INSTITUTE, TROY, NEW YORK, USA

July 16-19, 2006



The IEEE Power Electronics Society announces the **Tenth IEEE COMPEL Workshop (COMPEL'06)**. This workshop brings together industrial, government, and academic researchers for interactive discussion on the latest advances in modeling, analysis, and control of power electronic devices, circuits, and systems. Special emphasis at COMPEL'06 will be on digital control of high-frequency converters as well as systems analysis, control, and power management. The workshop also includes hands-on software and hardware demonstrations presented by participants.

Topics: The COMPEL'06 Technical Committee will consider all submissions relevant to the areas of interests of the workshop. Topics suitable for the workshop include (but are not limited to):

- *Digital Control:* fully digital & hybrid methods; low-power, low-cost; DSP, microcontroller, FPGA, ASIC; control algorithms, design methods, implementation issues, applications.
- *Modeling & Simulation:* devices, circuits, and systems; multilevel modeling; model fidelity & compatibility; electro-thermal, EMI, reliability, failure mechanisms; hardware-in-loop.
- *System Power Management:* data centers, processors, renewable energies & co-generation, micro grids, hybrid/electric vehicles, all-electric aircraft, electric ships, space applications.
- *Design & Operation:* synthesis, visualization, and verification tools; monitoring, built-in test, diagnosis, and prognosis; adaptation and reconfiguration; virtual prototyping.
- *Education:* virtual laboratories, multimedia tools, interactive simulation, symbolic tools.

Deadlines:

Digest submissions due March 15, 2006

Author notification of acceptance by May 1, 2006

Final paper versions due July 15, 2006

Tentative Workshop Schedule:

July 16 (Sunday): Tutorials

July 17-19: Technical Sessions & Demo

Social events include reception and banquet

Preparation of Submissions:

Prospective authors should submit a cover page and a separate digest not exceeding five **double-spaced** pages of their intended submission. The cover page should include the title, author names and complete mailing addresses, telephone and fax number, e-mail addresses of the corresponding author, and a 100-word abstract. The digest should not identify any author. Tutorial submissions should include a cover page and a detailed outline of the proposed content. All submissions must be sent as electronic mail attachments, **in PDF format**, to compel06@ecse.rpi.edu.

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Visit workshop web page at <http://www.ecse.rpi.edu/compel06> for more information