

COMPEL 2010



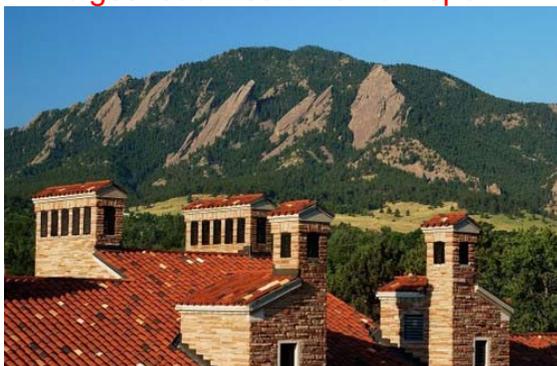
University of Colorado, Boulder, Colorado, USA

June 28-30, 2010

<http://ecee.colorado.edu/compel2010/>



Call for Papers: digest submission is now open



The IEEE Power Electronics Society announces the Twelfth IEEE COMPEL Workshop (COMPEL'10). This workshop brings together practicing engineers and researchers for interactive discussions on the latest advances in analysis, modeling and control of power electronics. Special emphasis in COMPEL'10 will be on advanced controls of switched-mode power converters, integrated circuits for smart power control and power management, as well as analysis, modeling and control of power electronics in energy efficiency and renewable energy applications.

The workshop includes presentation and poster sessions, as well as hands-on software and hardware demonstrations presented by participants. Topics include, but are not limited to:

- **Controls of Power Electronics:** advances in smart power control and power management techniques; control algorithms, design methods, implementation techniques (DSP, microcontroller, FPGA, hardware-in-loop, custom ICs).
- **Power Control and Power Management ICs:** application-driven features and benefits, designs for high performance, low power, or low cost; analog, digital or mixed-signal realizations; system integration and applications.
- **System Power Management:** analysis, modeling and control of power electronics in energy efficiency and renewable energy systems: energy harvesting, processors, lighting, data centers, hybrid/electric vehicles, micro grids, renewable sources.
- **Design and Simulation Tools:** synthesis, visualization, and verification tools; monitoring, built-in test, diagnosis, adaptation, virtual prototyping.
- **Education:** laboratories, multimedia tools, simulation and design tools.

Deadlines

Digest submissions: **April 2, 2010**
Author notifications by **May 7, 2010**
Final papers due: **June 26, 2010**

Workshop Schedule

June 28-30: technical, poster and demo sessions
Social events include two poster/demo session receptions and a banquet

Preparation of Submissions

Prospective authors should submit a cover page and a separate digest not exceeding five double-spaced pages for their intended submission. Digest on-line submission and other Workshop details are posted on the Workshop website: <http://ecee.colorado.edu/compel2010>

Venue: the Workshop will be held on the campus of the University of Colorado in Boulder. Boulder hosts a wide range of high-tech industry and several national labs (NIST, NCAR, NOAA), while National Renewable Energy Lab (NREL) is less than 20 miles away. Recreational opportunities abound, including state and national mountain parks.

General Chair: Dragan Maksimovic, Univ. of Colorado, maksimov@colorado.edu, 303-492-4863

Program Chairs: Regan Zane and Bob Erickson (University of Colorado), Aleksandar Prodic (University of Toronto), and Francisco J. Azcondo Sánchez (Universidad de Cantabria).