

IEEE TRANSACTIONS ON POWER ELECTRONICS



Call for Papers

Special Issue on Modeling and Advanced Control in Power Electronics, 2009

Scheduled Publication Time: November 2009

Prospective authors are invited to submit original contributions or survey papers for review for publication in this special issue. Topics of interest include (but are not limited to):

- Reduced-order and behavioral modeling of devices, components, circuits, and systems
- Integrated electro-magneto-thermal modeling; EMI modeling, multilevel and multi-physics modeling
- Model validation, model certification; model identification, model development tools
- Parallel and distributed simulation of complex power electronic systems; multilevel simulation
- Hardware-in-loop simulation, mixed-signal simulation, interactive simulation; virtual prototyping
- Digital and mixed-signal control of high-frequency converters; digital pulse-width modulation
- Geometric, ripple-based, and other nonlinear control methods for power converters
- Modular converter control, current and voltage sharing control; sensorless and adaptive control
- Large- and small-signal methods for complex dc, ac, and hybrid dc/ac power electronic systems
- Modeling and control of mobile and autonomous power electronic systems
- Modeling and control of renewable energy systems

All manuscripts must be submitted through Manuscript Central at http://mc.manuscriptcentral.com/tpel-ieee. Submissions must be clearly marked "Special Issue on Modeling and Advanced Control in Power Electronics, 2009" on the cover page. When uploading your paper, please indicate, under step 4 – *Details & Comments*, that it is for the "Special Issue on Modeling and Advanced Control in Power Electronics, 2009." Refer to http://www.pels.org for general information about electronic submission through Manuscript Central. Manuscripts submitted for the special issue will be reviewed separately and will be handled by the guest editorial board noted below.

Deadline for Submission of Manuscript: February 28, 2009

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Proposed Timeline

- June 2008 Proposal Approval by PELS AdCom
- July & September 2008 Call for Papers in the Transactions
- July December 2009 Call for Papers in PELS Newsletter and Distribution at Conferences
- February 28, 2009 Manuscripts Submission Deadline
- May 31, 2009 First Review Complete
- June 30, 2009 Revised Manuscripts Due
- August 15, 2009 Final Acceptance Notification
- September 15, 2009 Final Manuscripts Due
- September 30, 2009 Manuscripts Forwarded to IEEE for Publication
- November 2009 Special Issue Appears in Transactions