



## CALL FOR PAPERS

### “Sliding Mode Control in Industrial Applications”

**The Theme:** Variable structure systems with sliding modes have recently become one of the most exciting research topics in the field of power electronics, electric drive control and robotics. This is mainly due to their inherent robustness with respect to the plant model uncertainty and external disturbances which are unavoidable in any industrial environment. Furthermore, numerous very successful engineering applications of the systems have recently been reported. Therefore, the purpose of this Special Section is to present state of the art solutions in the field of sliding mode control system design and their industrial applications. Possible topics, include but are not limited to, the following:

- Sliding mode control of electric drives and actuators
- Sliding mode control in power electronics
- Sliding mode control applications in robotics and complex motion steering systems
- Sliding mode control in automotive industry
- Sliding mode observers for fault detection and isolation
- Higher order sliding modes
- Output feedback sliding mode controllers
- Discrete time sliding mode controllers
- Incorporation of artificial intelligence in sliding mode controllers
- Reaching phase elimination in variable structure systems
- Sliding mode control of systems in interaction with their environment
- Chattering analysis

#### 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: Sliding Mode Control in Industrial Applications.

#### Timetable

**Deadline for manuscript submissions**  
**Information about manuscript acceptance**  
**Estimated publication date**

**January 15, 2008**  
**July 15, 2008**  
**November 2008**

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