



# CALL FOR PAPERS

## “Sliding Mode Control and Observation for Complex Industrial Systems”

**The Theme:** The modern industrial systems become more and more complex with the rapid developments of the industrial technology, and thus, the stabilizability, robustness, reliability yet optimization issues have received considerable attention from academic research to practical applications. Recent developments of sliding mode control and observation techniques serve powerful tools to ensure the stabilizability, robustness and reliability of the underlying complex industrial systems.

The purpose of this Special Section is to create a platform for scientists, engineers and practitioners to present their latest theoretical and technological advancements in the sliding mode control and observation for complex industrial systems. The focus of this Special Section will be on advanced and non-traditional methods presenting considerable novelties in theoretical background or practical design. Manuscripts should contain both theoretical and practical/experimental results and will be subject to the normal IEEE TIE review procedures. Topics to be covered in this Special Section include, but not limited to, the following:

- Sliding mode control of uncertain systems with its applications to complex Industrial systems
- Sliding mode observation techniques for complex industrial systems
- Sliding mode methods for fault detection and fault tolerant control
- Sliding mode methods for complex dynamic systems (including stochastic jump systems, singular systems, switched systems, and networked systems)
- Applications of sliding mode control and observation (including electrical machines, power electronics and drives, hydraulic/pneumatic actuators, robotics, automotive industry, and aerial/aerospace vehicles)

### Manuscript Preparation and Submission

Check carefully the style of the journal described in the guidelines “Information for Authors” in the IEEE-IES website: <http://www.ieee-ies.org/publications>.

Please submit your manuscript in electronic form through Manuscript Central web site: <http://mc.manuscriptcentral.com/tie-ieee>.

On the submitting page, in pop-up menu of manuscript type, select: “SS on Sliding Mode Control and Observation for Complex Industrial Systems”, then upload all your manuscript files following the instructions given on the screen.

### Timetable

<b>Deadline for manuscript submissions</b>	<b>July, 1, 2016</b>
<b>Information about manuscript acceptance</b>	<b>February, 1, 2017</b>
<b>Estimated publication date</b>	<b>November, 1, 2017</b>

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