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Special Session on

**“Advanced Control for Uncertain Systems with Application to
Industrial Electronics**

Organized by

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Call for Papers

Theme: (100 words)

Uncertainties widely exist in most practical systems and always bring adverse effects on control performance of the closed-loop systems. Design and analysis of nonlinear control systems under uncertainties is an active research topic in control system societies. Many advanced control approaches, such as adaptive control, fuzzy control, robust control and intelligent control, have been proposed and developed to handle the systems subjected to various uncertainties. Advanced control approaches for nonlinear uncertain systems with applications to various industrial electronics will bring innovative solutions. Thus, the purpose of this Special Session is to provide an opportunity for scientists, engineers and practitioners to propose their latest theoretical and technological achievements which are closely related to uncertain system control and analysis. Both theoretical achievements and industrial application studies are invited for participation.

Topics of interest include, but are not limited to:

A list of 5-10 special areas

- Adaptive and/or robust control
- Adaptive fuzzy design methods
- Adaptive neural control
- Sliding mode design methods
- Modeling and compensation techniques for uncertainties
- Uncertainty observation in nonlinear systems
- Applications of recent control approaches for electronic systems, vehicles, manipulators spacecraft and etc.