

CALL FOR PAPERS



Special Session on *< Nonlinear Uncertain System Control With Application to Industrial Electronics >*

IECON 2018 - The 44th Annual Conference of the IEEE Industrial Electronics Society
October 21-23, 2018, Washington D.C, USA



TOPIC OF THE SPECIAL SESSION

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 systems control and analysis. Both theoretical achievements and industrial application studies are invited for participation.

Topics of the Session

- 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.

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Author's schedule:

- Deadline for submission of special session papers
May 1, 2018
- Notification of acceptance
July 15, 2018
- Deadline for submission of final manuscripts
August 1, 2018