



2011 IEEE International Conference on Fuzzy Systems
June 27–30, 2011, Taipei, Taiwan
Call for Papers
SS32: Special Session on Adaptive Fuzzy Logic Control

Submission Deadline: January 15, 2011

http://fuzzieee2011.nutn.edu.tw/Special_Sessions.htm

The aim of this special session is to present the state-of-the-art results in the area of adaptive intelligent control theory and applications and to get together researchers in this area.

Adaptive control has been an important area of active research for over five decades now.

Significant developments have been seen, including theoretical success and practical design. One of the reasons for the rapid growth of adaptive control is its ability to control plants with uncertainties during its operation. Adaptive control is a technique of applying some methods to obtain a model of the process and using this model to design a controller.

The papers in this special session present the most advanced techniques and algorithms of adaptive control. These include various robust techniques, performance enhancement techniques, techniques with less a-priori knowledge and nonlinear intelligent adaptive control techniques.

This special session aims to provide an opportunity for international researchers to share and review recent advances in the foundations, integration architectures and applications of hybrid and adaptive systems.

Topics of interest include, but are not limited to:

- Adaptive and learning control theory
- Adaptive control of processes
- Data based auto-tuning of the controller
- Estimation and identification and its application to control design
- Fuzzy Control
- Fuzzy Control and Robotics
- Fuzzy Applications
- Soft Computing/ computational intelligence in control systems
- Fuzzy Modeling and Simulation
- Cooperative Control
- Hybrid Intelligent Control
- Adaptive Control
- Robust Control
- Modelling and Simulation
- Knowledge based control systems
- Control applications

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