

**Subject:** Invited Session Proposal forSPAC2021

**Proposed Session Name:** **Fuzzy and neural network control of uncertain nonlinear systems**

At present, the application of intelligent control has covered many industries, such as the industrial process, machinery manufacturing, power electronics research, and so on. But as a new theoretical technology, it is still in a period of development. However, with the rapid development of artificial intelligence technology and computer technology, intelligent control is bound to usher in a new period of its development. Intelligent control theory is based on the fuzzy logic system and neural network universal approximation performance to model and learn uncertain nonlinear systems. As a result, we wish to propose an invited session for the SPAC2021 entitled "Fuzzy and neural networks control of uncertain nonlinear systems: Theory and applications". This special session aims to provide a chance for researchers and practitioners in the field of **Fuzzy and Neural Networks Control** to share their new ideas and recent results. The topics of this special session explicitly include but are not limited to the following aspects:

- Fuzzy and neural networks modeling and identification
- Adaptive control of nonlinear systems
- Robust control for nonlinear systems
- Intelligent control of multi-agent systems
- Event-triggered control of nonlinear systems
- Intelligent control of autonomous systems, unmanned vehicles and robotics

Yours sincerely

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**Organizers:**

Prof. Yongming Li and A/Prof. Shuai Sui