# USC Viterbi

School of Engineering
*Ming Hsieh Department of*
*Electrical and Computer Engineering*

Ming Hsieh Institute Seminar Series
## Center for Systems and Control – CommNetS

## Several critical issues in neural network driven control design and analysis

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### 11:00am PST
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**Abstract:** Neural networks (NN) and related learning algorithms are crucial components of artificial intelligence. The utilization of neural networks combined with learning algorithms for controller design has become a mainstream direction in the field of intelligent control. This talk will examine the typical NN-driven design approaches and expose several critical issues related to functionality and effectiveness of the NN-based control methods.

**Bio: Professor Yongduan Song** is a Fellow of IEEE, Fellow of AAIA, Fellow of International Eurasian Academy of Sciences, and Fellow of Chinese Automation Association. He was one of the six Langley Distinguished Professors at National Institute of Aerospace (NIA), USA and registered professional engineer (USA). He is currently the dean of Research Institute of Artificial Intelligence at Chongqing University. Professor Song is the Editor-in-Chief of IEEE Transactions on Neural Networks and Learning Systems (TNNLS) and the founding Editor-in-Chief of the International Journal of Automation and Intelligence.

**Hosts:** Dr. Petros Ioannou, ioannou@usc.edu

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