

## Plenary Speaker



### Professor Yongchun Xie

Beijing Institute of Control Engineering and China Academy of Space Technology, China.

#### Short Biography:

Yongchun Xie graduated from the Department of Electronic Engineering of Tsinghua University in 1989, and received the master degree and Ph. D. degree in automatic control theory and application from China Academy of Space Technology, respectively, in 1991 and 1994. She was a Center of Excellence foreign researcher from 1998 to 1999 in Japanese Institute of Space and Astronautical Science. She is currently Vice Director of science and technology committee of Beijing Institute of Control Engineering and senior chief researcher of China Academy of Space Technology. Professor Yongchun Xie has long been engaged in the study of characteristic model based adaptive control method. In theory she first proved the robust stability of the golden section adaptive controller and broke through the challenge in showing the robustness of all-coefficient adaptive control method. In practical engineering, she presented the detailed control scheme of rendezvous and docking for Shenzhou spacecraft, including a new characteristic model based phase plane adaptive control method, which has been successfully applied to the rendezvous and docking tasks of Shenzhou-8, Shenzhou-9 and Shenzhou-10 with Tiangong-1. She has coauthored one book and authored/coauthored more than one hundred papers. She has won two ministerial First Prize of Science and Technology Progress. In 2011 and 2012 she was named as "the Prominent Contributor for China Manned Space Engineering", "2011 Annual Figure in Chinese Automation Field" and "2011 China Economic Annual Woman". In 2013 she was awarded the "2012 Annual China Space Foundation Award". Professor Yongchun Xie is a member of the council of Chinese Association of Automation, and editorial board member for Journal of Astronautics, and Aerospace Control and Applications.