# The 32nd Chinese Control Conference

## Plenary Panel Session 1 on

## Control Science and High Level Talents Cultivation

## (控制科学与高层次人才培养)

**Chair:** Professor Chen Jie, Beijing Institute of Technology, China

**Panelists:**

Professor Chu Jian, Zhejiang University, China

Professor Liu Ding, Xi'an University of Technology, China

Professor Ren Wei, University of California, Riverside, USA

CCC'13 proudly presents the plenary panel session on control science and high level talents cultivation. We are honored to be able to invite three prominent professors in the field of control to be the panelists. High level talents cultivation is vital to the development of control science, and should be paid enough attention. During this session, panel members will share their vast experiences and visions on this issue with audience through effective face-to-face dialogues.

This panel consists of three world-class researchers and educators. They include:

**Professor Chu Jian** received his B.S., M.S. and Ph.D. degrees in industrial process control from Zhejiang University in 1982, 1984 and 1989, respectively. From 1986 to 1989, he studied at the Dept. of Chemical Engineering, Kyoto University, Japan under a joint PhD Program. From 1989 to 1991, Dr. Chu joined the faculty of Zhejiang University as a Postdoctoral Research Fellow, where he became a full professor in 1993. He was awarded the Changjiang Distinguished Professorship in 1993 by the Ministry of Education of the People's Republic of China.

Dr. Chu is the Vice President of Zhejiang University and the Directors of the Institute of Cyber-Systems & Control, the State Key Laboratory of Industrial Control Technology, and

the Deputy Director of National Engineering Research Center for Industrial Automation. He serves Committee Chair of Advanced Manufacturing under the 863 High-Tech Program of China.

His current research interests include process system engineering, industrial automation systems and robotics. He is the author and co-author of five books and more than 100 journal papers. During the last two decades, he has made a major contribution to distributed control systems (DCS), advanced process control (APC), and industrial automation network.

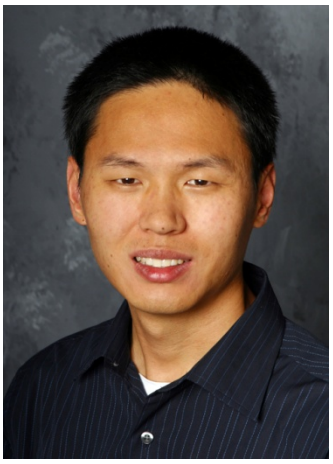
He is the recipient of several national awards, including the National Standard Innovation Contribution Prize (the first place, 2008), the National Technological Invention Prize (the second place, 2009). His research team was awarded the Innovation Research Group Grant from Natural Science Foundation of China in 2007.

**Professor Liu Ding** graduated with M.E from Shaanxi Institute of Mechanical Engineering and started his teaching career there in 1987. From 1991 and 1992, he went to Fukui University in Japan as a visiting scholar. In 1997 he received his PhD in Xi'an Jiaotong University. He was the head of Centre of Information and Control, Xi'an University of Technology. In 2004, he took the presidency of the University and served till now. Prof. Liu holds membership of IEEE, Chinese Association of Automation, and Chinese Association for Artificial Intelligence and Division of Education Guidance Committee in Automation.

His research interests include 1) modeling, optimizing and control of complex industrial system; 2) automation techniques and their application on large-scale silicon single crystal furnace; 3) High precision vision-based robot servo control. He has published more than 200 papers in these areas.

Prof. Liu is the recipient of several national and provincial awards and honors, such as Special Government Allowances (1997), National Progress Awards in Science and Technology (third prize, 1997), National Outstanding Teacher (1998), Chinese Machinery Industry Progress Awards in Science and Technology (second prize, 2001), Experts with Outstanding Contributions of Shaanxi Province (2006), Shaanxi Province Awards in Science and Technology (first prize, 2006, 2008, 2011 respectively), and National Advanced Worker

(2010).



**Professor Ren Wei** received the B.S. degree from Hohai University, China, in 1997, the M.S. degree from Tongji University, China, in 2000, and the Ph.D. degree from Brigham Young University, Provo, UT, in 2004, all in electrical engineering. From October 2004 to July 2005, he was a Postdoctoral Research Associate with the Department of Aerospace Engineering, University of Maryland, College Park, MD. He was an Assistant Professor (August 2005 to June 2010) and an Associate Professor (July 2010 to June 2011) with the Department of Electrical and Computer Engineering, Utah State University, Logan. Since July 2011, he has been with the Department of Electrical Engineering, University of California, Riverside, where he is currently an Associate Professor. His research focuses on distributed control of multi-agent systems and autonomous control of unmanned systems.

Dr. Ren is an author of two books *Distributed Coordination of Multi-agent Networks* (Springer-Verlag, 2011) and *Distributed Consensus in Multi-vehicle Cooperative Control* (Springer-Verlag, 2008). His papers on multi-agent systems have been cited more than 6000 times (Google Scholar). He is currently an Associate Editor for *Automatica* and *Systems and Control Letters*, an Associate Editor on the IEEE Control Systems Society Conference Editorial Board, and a member of the IEEE Control Systems Society Technical Committee on Nonlinear Systems and Control. He was the recipient of a National Science Foundation CAREER award in 2008.