WORKING AND LITERATURE SEMINAR

Topic: **Stability and Control of Interconnected Systems**

Speaker: **Prof. Zhong-Ping Jiang, New York University**

Time: 15:00-16:00, 10 March 2014

Venue: Room 379, Geography Building, 3663 Zhongshan Road North, Shanghai
               (华东师范大学中山北路校区，地理楼 379 室)

ABSTRACT OF THE TALK

Interconnected systems are ubiquitous in many branches of science and engineering. Examples of such systems range from groups of robots, electric smart grid, and transportation systems to biological and economic systems. In this talk, a new theory called nonlinear small gain is introduced for the analysis and synthesis of interconnected systems. Connections with Lyapunov theory and traditional large-scale system theory are discussed. An application to distributed formation control design for nonholonomic mobile robots is discussed.

BIOGRAPHY

Zhong-Ping Jiang is a Professor of Electrical and Computer Engineering at New York University and an affiliated faculty member of NYU-ECNU Institute of Mathematical Sciences at NYU Shanghai.