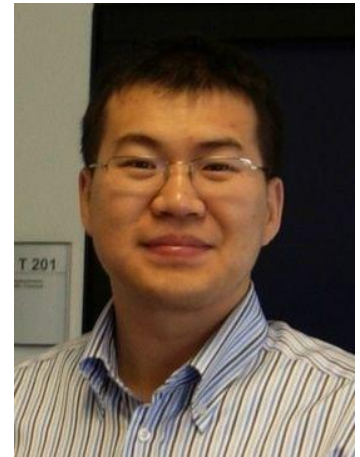# 学术报告会

**时间：2013年8月13日(周二)10:00**

**地点：电院群楼2-410会议室**

## Synchronization in Multi-Agent Systems and Internal Stability of Linear Systems with Saturation Constraints

### Dr. Tao Yang

**Royal Institute of Technology, Sweden**

**Abstract:**

Synchronization problem in multi-agent systems- that is, asymptotic agreement on the agents' state or output trajectory-has received substantial attention in recent years, partly due to the wide applications in areas such as autonomous vehicle control, sensor networks and decision making networks. The essential difficulty of the synchronization problem in multi-agent systems is the lack of a central authority with the ability to control the network as a whole. Instead, each agent must implement a controller based on limited information about itself and its surroundings.

**Biography:**

**Tao Yang** is a postdoctoral researcher at Royal Institute of Technology, Sweden. Prior this position, he received the PhD degree in Electrical Engineering from Washington State University in August 2012, the MSc degree with distinction in Control Engineering from City University, London in November 2004, and BS degree in Computer Science from Harbin University of Science and Technology in July 2003. His research focuses on multi-agent systems and constrained control.