

清华大学



逻辑学 学术报告

时间：2012年9月28日（星期五） 2:30 -- 4:00 pm

地点：清华大学 6教 B407

主办：清华大学人文学院哲学系

报告人：**Natasha Alechina** 教授 (University of Nottingham, UK)

报告题目：Verifying time, memory and communication bounds in systems of reasoning agents

摘要： I will present a framework for verifying systems composed of heterogeneous reasoning agents, in which each agent may have differing knowledge and inferential capabilities, and where the resources each agent is prepared to commit to a goal (time, memory and communication bandwidth) are bounded. The framework allows us to investigate, for example, whether a goal can be achieved if a particular agent, perhaps possessing key information or inferential capabilities, is unable (or unwilling) to contribute more than a given portion of its available computational resources or bandwidth to the problem. I will present a temporal epistemic logic, BMCL-CTL, which allows us to describe a set of reasoning agents with bounds on time, memory and the number of messages they can exchange. The bounds on memory and communication are expressed as axioms in the logic.

欢迎参加！