Evolving Internet into the Future via Named Data Networking

时间:	**2012 年 6 月 14 日星期四下午 14:00-15:30**
地点：	**清华大学 Fit 楼 1 区 312**

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Abstract

While the Internet has succeeded far beyond expectations, the success has also stretched its initial design assumptions. Since applications operate in terms of data and more end points become mobile, it becomes increasingly difficult and inefficient to satisfy IP's requirement of determining exactly where (at which IP address) to find desired data. The Named Data Networking project aims to carry the Internet into the future through a conceptually simple yet transformational architecture shift, from today's focus on where -- addresses and hosts -- to what -- the data that users and applications care about. In this talk I will present the basic design of NDN and its remaining research challenges.

Biography

Lixia Zhang received her Ph.D in computer science from MIT and joined Xerox Palo Alto Research Center as a member of research staff. She is now a professor in the Computer Science Department of UCLA. In the past she served as the vice chair of ACM SIGCOMM, member of the editorial board for the IEEE/ACM Transactions on Networking, member of the Internet Architecture Board, and co-chair of the Routing Research Group under IRTF. She is a fellow of ACM and IEEE. She received IEEE Internet Award in 2009 and holds UCLA Postel Chair in Computer Science.