

2011 Global Future Internet Week

Imperial Palace Hotel, Seoul, Korea, Nov 27~Dec 5, 2011

○ Presentation Schedule

Program	CJK FIW
Date	29/11/2011
Session	3

○ Curriculum Vitae

Photo		Name	Dan Li
		Company	Tsinghua University
Department	Computer Science	Position	Assistant Professor
Curriculum Vitae	<p>I am now an assistant professor in the Computer Science Department of Tsinghua University. From Jan 2008 to Feb 2010, I worked as an associate researcher in the Wireless & Networking Group of Microsoft Research Asia. I received my M.E. degree and Ph.D from Tsinghua University in 2005 and 2007 respectively, both in computer science. My current research interests include computer network architecture, data center networks and green networking. I have published more than 30 technical papers in referred conferences and journals, including top conferences (e.g., SIGCOMM, INFOCOM) and top journals (e.g., ToN, TMM) in my research fields. I serve as a TPC member for some international conferences, such as INFOCOM, GLOBECOM, ICCCN. I am a member of IEEE and ACM.</p>		

○ **Presentation Summary (Only for Speaker)**

Title	Towards new-generation Internet
Summary	<p>To development a new generation of Internet has become the consensus of academia and industry with diversify and personality changing in Internet's applications and exhausted of IPv4 address. We believe that the current Internet architecture has strong capacity of continuous evolution, and what we need to do is to further enhance its evolvability. Based on this idea, we propose an evolvable approach that lies between the clean-slate approach and dirty-slate approach.</p> <p>Since a number of technical candidates and design options for the construction of the future Internet exist, it is necessary to identify which technologies or directions have persistent effects and hold the biggest potential for development.</p> <p>We think that the ability of a new architecture to replace the old one and maintain the sustainable development depends on its application adaptation capacity (2ACT) of the architecture, which includes service adaptability and economic adaptability of the architecture. So, this talk also put forwards a 2ACT evaluation model to explore the dynamic development trend of the architecture under different application demands. As an example, we study the relationship between content distribution mechanisms based architecture and different application data proportion. The results show that when the architecture has better performance, it also has better adaptive ability, higher performance/cost, and larger development potential.</p>