

**Title:** Congestion Control Protocols for Fast and Long-Delay Networks  
**Presenter:** Wu Xiuchao  
**Time:** 10am-12pm, Feb. 16, 2007  
**Venue:** MR2 (Level 6, S16)

## **Abstract**

Congestion control is the basis of the Internet. It has been an active research area for many years. In recent years, the bandwidth of core networks and access networks are increasing very quickly. And more and more network pipes with huge Bandwidth-Delay Product appear in the Internet. TCP with its standardized congestion control (Newreno/SACK) faces severe challenges on these network pipes. New congestion control protocol for FLDNet (Fast and Long-Delay Network) has been a very hot research topic. In this talk, I'll introduce the challenges brought by FLDNet and the existing proposals. I'll also discuss several works that may be worthwhile to be done.

## **Reference**

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5. "Scalable TCP", Tom Kelly, ACM Sigcomm CCR, Jul. 2003.
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10. "H-TCP", D.J. Leith, et.al. (Ireland), PFLD Workshop, 2005
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12. "TCP Africa", Ryan King, et.al. (Rice U.), Infocom, 2005
13. "TCP Compound", Kun Tan, et.al.(Microsoft), Infocom, 2006
14. "TCP Fusion", Kazumi Kaneko, et.al. (Japan), PFLD workshop, 2007
15. "YeAH-TCP", Andrea Baiocchi, et.al. (Italy), PFLD workshop, 2007
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