Impact of network models on stability analysis: Or How much would you *like* 2+2 to equal?

Lachlan Andrew
Dept of Computer Science, Caltech

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Abstract
The stability of congestion control algorithms is important to avoid excessive fluctuations in rate, delays and queue occupancy, which can lead to low utilization. As a result, many people have tried to prove stability of such algorithms. However, such proofs can become misleading if insufficiently accurate network models are used.

This talk will describe several generations of network models, and the changing implications each has for stability predictions of FAST TCP.

Time permitting, the talk will also touch on a model of loss synchronization, demonstrating how paced TCP can get lower throughput than unpaced TCP.

Venue: Seminar Room, Hamilton Institute, Rye Hall, NUI Maynooth
Time: 1.30 - 2.30pm (followed by tea/coffee)
Travel directions are available at www.hamilton.ie