Making a case for
Empathetic* Cross-disciplinary Teaching
of Networking

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* with empathy, not pathetic
Cross-disciplinary, and doubly so

• cross-disciplinary content and issues  
  o EE/CS/IE - technology, ...
  o mathematics - analytic tools, ...
  o physics - modelling tools, ...
  o economics - issues, ...
• cross-disciplinary class  
  o EE/CS/IE students - what's incentive?  
  o mathematics students - what's protocol?  
  o physics students - what's reversibility?  
  o economics students - where's the beef?
Cross-disciplinary ... *a bridge at a time*

**Diagram:**
- EE/CS/IE
- Economics
- Mathematics
- Physics

*prodded* ground for further T&L

* a purpose-built platform on single-disciplinary "prods"

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Cross-disciplinary ... a "story" at a time

prodded* ground for further T&L

* a purpose-built platform on single-disciplinary "prods"

The Internet story
Google story
Organic web story
Power law story
Network crowd story
Random graph story
Open networking stories launched from the prodded ground

- The Internet story
- Google story
- Network crowd story
- Random graph story
- Organic web story
- Power law story
- The QoS story
- Network market story
- More and more stories...
- Net neutrality story
- Social networking story
Dept of Information Engineering at CUHK

• Created in 1989
  – Can be thought of as “Computer Engineering” in Internet age
• Areas: Communications, networking, security, image processing
• Some successes:
  – Network coding
  – Coolstreaming (P2P streaming)
  – Single image haze removal (CVPR 2009 Best Paper)
• Area for expansion: cyber security
  – Actively recruiting