

## CIS 700/005

### Networking Meets Databases

Boon Thau Loo  
Spring 2007  
Lecture 6

### Class Project

- 40% of overall grade
- <http://www.cis.upenn.edu/~boonloo/cis700-sp07/project.html> has more details
- 1-page proposal: 3%, due Feb 12
  - Problem being solved
  - General approach
  - Metrics for success
  - Timeline
- Related work survey, status report, in-class presentation, project write-up

### Project Option 1

- Survey paper:
  - Towards WPE-II exam or learn in greater depth on a topic.
  - Pick at least 3 papers on a topic
  - 6 page report:
    - What are the problems being tackled?
    - What are the proposed solutions?
    - Possible areas of future work?
  - Examples:
    - "Survey of security issues and solutions in DHTs"
    - "Computing aggregates efficiently in sensor networks"
    - "Internet-scale content-based routing systems"

### Project Option 2

- My suggestions – See me soon!
- Propose your own research as long as it is relevant to class
- Individual or groups of 2
- Implementation-oriented:
  - "Wide-area resource discovery using PIER/P2"
  - "Distributed network monitoring tool using Borealis/TCQ"
- Research oriented:
  - "Stream query processing/archival techniques for network forensics and accountability"
  - "Cost-based optimizations for declarative networks"
- 6 page – workshop paper

### Today

- Micah presents "Mesh-based Content Routing using XML"
- Check out:
  - Cisco's Application-Oriented Networking
  - IBM's Gryphon system used in Sydney olympics, Tennis grand slam, Ryder cup
- Compare with Internet-scale Query Processors

### Next week

- Next paper:
  - 30 Jan: "Towards an Internet-scale XML Dissemination Service". VLDB 2004
  - Mengmeng will present
  - Read early!