CS 3550
Data in Crisis Management
Prof Panos K. Chrysanthis
special guests/co-instructors
Alexandros Labrinidis & Mohamed Sharaf
Fall Term 2005 (06-1 or 2061)

Logistics
• When: Tue & Thu 11:00-12:15pm
• Where: 6516 SENSQ
• What:
  – Project-oriented investigation
  – Study state of the art-papers

Goals
• Understand the state-of-the-art in data streams, sensor networks, mobile and wireless technology
• Discover unsolved problems and challenges
• Learn (practice) how to give a good presentation
• Learn (practice) how to review papers
• Learn (practice) how to write a good technical paper
• Produce a publishable paper

Course Requirements
• Participation: 20%
• Presentations: 30%
• Term Paper: 20%
• Term Project: 30%

Course Structure
Choose a topic from the schedule
  – group of 2 students is permitted (FCFS)
1. Each group will
  • Come with bibliography; initial list of 2-3 other papers
  • Present the papers (1-2 talks)
2. Each group will
  – Execute a project
  – Do a project presentation at the end of each month and at the end of the term
  – Write a project report

Preparation of your Talk
• Reading: Read the papers but read others as well:
  – Citers and Cited, follow-ups by the same author, etc.
• Assume that the average reader has understood the easiest 2/3 of the paper.
• You, the expert on the papers, need to supply the rest.
**Talk Outline**

- Categorize issues and solutions in your topic
  - those that are unique to the new environments and systems
  - those that are shared with any distributed system
- Broad-brush sketch of important results
  - give outline of talk in this context
- Postpone discussion of things you are going to treat in detail later
- Details of 2-3 chosen issues/solutions
- Summary of solved problems, unsolved problems, non-problems

➢ A peek into your paper & project ideas

**Administrative**

- web page: http://db.cs.pitt.edu/courses/cs3550/06-1
  – check often!
- use keyword cs3550 in all emails to instructor (as part of the subject line)
- class mailing list: Register by Friday Sept. 9th by sending an email to the instructor.. me 😊

**Topics & Projects**

<table>
<thead>
<tr>
<th>Topics</th>
<th>Metrics</th>
<th>Projects</th>
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<tbody>
<tr>
<td>Mobile DB</td>
<td>QoD, QoS</td>
<td>data dissemination, Caching, replication, mobile transaction</td>
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<tr>
<td>Sensor DB</td>
<td>Energy</td>
<td>continues queries, ad-hoc queries, Context-aware (location-based) Q</td>
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<td>P2P DB</td>
<td>Time</td>
<td>data dissemination, caching, transactions/updates (HiFio)</td>
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<tr>
<td>Streams</td>
<td>Space</td>
<td>Scheduling, planning, new operators, load scheduling, recovery/FT</td>
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