CS 3551

Agenda for Today

• 5:30-6:00 Logistics & Intro to Stream (Panos)
• 6:00-6:45 CE-Storm - Confidential Elastic Processing of Data Streams (Alex)
• 6:45-7:15 Dinner break
• 7:15-7:45 Stream Processing on Emerging Memory Architectures (Santiago)
• 7:45-8:30 Discussion - Brainstorming

Logistics

• When: Wed 5:30 – 8:30pm (regular)
  Mon 7:00 – 8:30 pm (make-up)
• Where: 6516 SENSQ
• What: Quest Course
  – Project-oriented investigation
  – Study state of the art-papers

No Classes & Make-up Classes

• Oct. 5 Make-up class
• Oct. 7 No class
• Oct. 26 Make-up class
• Nov. 4 No class
• Nov. 11 No class (?)
• Nov. 16 Make-up class
• Understand the state-of-the-art in in-memory data management on new memory architectures and distributed and cloud infrastructures
• 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
• Design AstrapiDB and produce a publishable paper

Course Requirements

• Participation: 20%
• Presentations: 25%
• Paper Reviews: 15%
• Term Project & Report: 40%

Administrative

• web page: http://db.cs.pitt.edu/courses/cs3551/fall2015 – check often!
• use keyword cs3551 in all emails to instructor (as part of the subject line)
• class mailing list: You would be signed up.

Paper Discussion Structure

1. One student will be the presenter
   • Select papers from the bibliography or come with alternative list of papers
   • Present the papers (1-2 talks)
2. A second student will lead the discussion on the Pros and provide a summary of the Pros
3. A third student lead the discussion on the Cons and provide a summary of the Cons
Project Structure

- Each group (group of 2-3 students is permitted) will select a topic to work on
  - Each student will act as a project leader for a month
  - The project leader will do a project presentation at the end of each month and the group at the end of the term
  - Select papers from the bibliography or come with alternative list of papers
  - Present the papers (1-2 talks)
  - 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

Topics & Projects

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<td>QoD, QoS</td>
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