

## 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

#### 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.

# Course Requirements

• Participation: 20%

• Presentations: 25%

• Paper Reviews: 15%

• Term Project & Report: 40%

#### 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

#### 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, nonproblems
- ➤ A peek into your paper & project ideas

## 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.

#### Topics & Projects

Topics	Metrics	Projects
	QoD, QoS	
?	Energy Time Space	?