Paper Selection

Please select a paper related to your tentative research project for this course in the broad area of computational methods. You should email me an electronic copy of the paper for your class presentation by February 17th 2016. Please also include the title of the paper, authors list and the venue where it has been published. Mention your preferred date for your presentation (see below for possible presentation dates). The paper should be from a recent (no more than 5 years old) conference, workshop or journal and related to computational methods such as machine learning, data science, algorithm, NLP, graph theory to name a few. Your paper selection must be approved by the instructor. The following conference and workshops are recommended.

- IEEE ICDM, ICDE, PerCom, ICML
- ACM Ubicomp, MobiSys, CHI, ISWC
- ACM SenSys, IPSN, BuildSys

Presentations

The goal of this paper presentation is to get you started early on a research topic or a research direction which I expect you to continue as the course research project. Each student will make a class presentation on one technical paper in the broad area of computational methods research. The paper should be approved by your instructor. The presentation must demonstrate an in-depth understanding of the topic, including background material from the paper's references, and provide a critical review.

Presentation Grading

Please prepare your presentation (power point slides) for 25-30 minutes and there will be question-answers for 3-5 minutes. Your presentation will be graded on the following aspects:

1. Your Knowledge of the topic
2. Critical evaluation of the topic
3. Presentation style, quality and delivery
4. Your response to the questions and answers from the audience

Tentative Presentation Schedule

We will schedule 4-5 presentations on each day.

- 2nd March (4 slots)
- 9th March (5 slots)

Paper Critiques

The aim of a paper critique is to summarize a research paper and identify the strengths and weaknesses of the paper. The critique should not be more than one page single spaced in length. Include the following in your critiques:

1. A summary or synopsis of the paper in your own words. Note: Your summary should not just paraphrase the abstract. (Should not be more than one third to one half page)
2. What positive things can you say about the paper? (every review should have at least one or two positive things to articulate)
3. What are the key limitations, unproven assumptions, or methodological problems with the work?
4. What is the main result of the paper? (one-two sentence)
5. How could the work be improved? (future research directions)

Submission Procedure

The course involves reading and presenting approximately 9-10 research papers; students are required to read all of the papers, and submit written critiques of 3 of those papers based on their interest (students may choose which ones to review). Review should be submitted by person as a hard-copy in the next class to the instructor on any papers being presented in the last class. No late submissions will be accepted.