Spring 2009 Presentation Schedule

CS591Han Seminar: Advanced Topics on Data Mining (Spring 2009 Presentation Schedule)

Papers can be selected from this year or previous year's conference proceedings or journals. We welcome students who would like to present tutorials and/or writing topic survey articles related to this theme.

Two students per unit (20 minutes presentation and 5 minutes discussion) for each research paper, i.e., two papers will be covered per class unit.

Week 1 (1/23/09): Class organization and report of ICDM'08 conference (Jiawei Han)

Week 2 (1/29/09): Two presentations

1. Seb Seith
   
   Ling Chen, Yiqun Hu and Wolfgang Nejdl: DECK: Detecting Events from Web Click-through Data, in ICDM 2008. Slides

2. Feida Zhu
   
   Ralf Schenkel, Tom Crecelius, Mouna Kacimi, Sebastian Michel, Thomas Neumann, Josiane Xavier Parreira, and Gerhard Weikum

   Efficient Top-k Querying over Social-Tagging Networks, in SIGIR 2008. Slides

Week 3 (2/05/09): Two presentations

1. LuAn Tang
   

2. Peixiang Zhao
   
   Dmitry Lizorkin, Pavel Velikhov, Maxim Grinev, Denis Turdakov (Russian Academy of Sciences, Russia)

   Accuracy Estimate and Optimization Techniques for SimRank Computation, in VLDB 2008. Slides

Week 4 (2/12/09): No presentations, replaced by Jennet Wing's seminar on Cyberphysical Systems

Cyber-Physical Systems Research Challenges Jeannette Wing, Carnegie Mellon University and National Science Foundation Thursday, February 12, 2009, 4:00pm B02 CSL

Abstract: Autonomous cars. Robots at work, at play, at home. Intelligent, energy-efficient, earthquake-proof buildings. Physical infrastructure monitored and controlled by sensor nets. Embedded medical devices. Unobtrusive assistive technology. What is common to these systems? They have a computational core that interacts with the physical world. These cyber-physical systems are engineered systems that require tight conjoining of and coordination between the computational (discrete) and the physical (continuous). Cyber-physical systems are rapidly penetrating every aspect of our lives, with potential impact on sectors critical to U.S. security and competitiveness, including aerospace, automotive, chemical production, civil infrastructure, energy, finance, healthcare, manufacturing, materials, and transportation. What new science is needed to model and understand cyber-physical systems? What are technical challenges to ensuring they behave safely and adapt to unpredictable events in their environment? Expediting progress to meet these kinds of questions will require new kinds of collaborations: among people from different
disciplines; and between academics with common solutions to seemingly different problems and industry with the
domain expertise. In my talk I will outline some of the research opportunities and challenges in cyber-physical systems,
as driven by societal expectations, technology innovation, and scientific needs.

Week 5 (2/19/09): (No class due to instructor’s meetings at DC and Pennsylvania)

Week 6 (2/26/09): Two presentations

1. Xin Jin


2. Yintao Yu


Week 7 (3/5/09): Two presentations

1. Albert Lucius

Jiyn He, Wouter Weerkamp, Martha Larson and Maarten de Rijke: Blogger, Stick to your Story. AND (Analytics for Noisy Unstructured Text Data, SIGIR Workshop) 2008 Slides

2. Xiao Yu

Duy-Dinh Le, Shin’ichi Satoh: Unsupervised Face Annotation by Mining the Web, ICDM 2008. Slides

Week 8 (3/12/09): Two presentations

1. Yizhou Sun

Aris Anagnostopoulos, Ravi Kumar, and Mohammad Mahdian: Influence and Correlation in Social Networks, KDD 2008. Slides

2. Cindy Xide Lin

Gjergji Kasneci, Fabian M. Suchanek, Georgiana Ifrim, Maya Ramanath, Gerhard Weikum: NAGA: Searching and Ranking Knowledge, ICDE08. Slides and DEMO

Week 9 (3/19/09): Two presentations

1. Lu Liu


2. Dustin Bortner


Week 10 (3/26/09): No class (Spring Break)
Week 11 (4/2/09): Two presentations

1. Zhenhui Li

2. Zhijun Yin
Danushka Bollegala, Yutaka Matsuo, Mitsuru Ishizuka: Measuring the similarity between implicit semantic relations using web search engines, WSDM09, Slides

Week 12 (4/9/09): Two presentations

1. Conrad Tucker
Mirko Böttcher Martin Spott Rudolf Kruse: Predicting Future Decision Trees from Evolving Data. 2008 Eighth IEEE International Conference on Data Mining, Slides

2. Min-Soo Kim.
Jure Leskovec, Kevin J. Lang, Anirban Dasgupta, and Michael W. Mahoney, Statistical Properties of Community Structure in Large Social and Information Networks, WWW 2008 Slides

Week 13 (4/16/09): Two presentations

1. Bolin Ding
Srivatsava Ranjit Ganta, Shiva Prasad Kasiviswanathan, Adam Smith: Composition Attacks and Auxiliary Information in Data Privacy, KDD 2008 Slides

2. Chen Chen
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slides

Week 14 (4/23/09): Two presentations

1. Deng Cai
Xiaofei He, Wanli Min, Deng Cai, and Kun Zhou, "Laplacian Optimal Design for Image Retrieval", SIGIR 2007 Slides

2. Bo Zhao
Ping Wu, Yannis Sismanis and Berthold Reinwald, "Towards Keyword Driven Analytical Processing", SIGMOD 2007 Slides

Week 15 (4/30/09): Two presentations

1. Tianyi Wu
Sihem Amer Yahia (Yahoo Research, USA), Michael Benedikt (Oxford University, England), Laks V.S. Lakshmanan (University of British
Columbia, Canada), Julia Stoyanovich (Columbia University, USA). *Efficient Network-Aware Search in Collaborative Tagging Sites (VLDB'08)* Slides

2. Jing Gao

Jing Gao, Wei Fan, Yizhou Sun, and Jiawei Han "*Heterogeneous Consensus Learning via Decision Propagation and Negotiation*", KDD 2009 Slides

**Week 16 (5/8/09) Afternoon Data Mining Group Summary Meeting (3405 SC)**