

CSI5387 Winter 2014

Theme Papers

- **JANUARY 29: Big Data Analysis**

- **QIANG WANG:** [Paper1](#): KDD'2013: *TurboGraph: A Fast Parallel Graph Engine Handling Billion-scale Graphs in a Single*, Wook-Shin Han; Sangyeon Lee; Kyungyeol Park; Jeong-Hoon Lee; Min-Soo Kim; Jinha Kim; and Hwanjo Yu
- **ASHLEIGH FRATESI:** [Paper2](#): ICDM'2013: *Efficient Visualization of Large-scale Data Tables through Reordering and Entropy Minimization*, Nemanja Djuric, and Slobodan Vucetic
- **??:** [Paper3](#): ICML'2013: *Large-Scale Learning with Less RAM via Randomization*, Daniel Golovin; D. Sculley; Brendan McMahan; Michael Young

- **FEBRUARY 5: Multi-Label Data Classification**

- **ANDREW WYLIE:** [Paper4](#): KDD'13: *Multi-Label Classification by Mining Label and Instance Correlations from Heterogeneous Information Networks*, Xiangnan Kong, Bokai Cao and Philip S. Yu
- **DONGTING ZHANG:** [Paper5](#): ECML'2013: *Probabilistic Clustering for Hierarchical Multi-Label Classification of Protein Functions*, Rodrigo C. Barros, Ricardo Cerri, Alex A. Freitas, André C. P. L. F. de Carvalho
- **ALI REZA FARID AMIN:** [Paper 6](#): ICML'2013: *Efficient Multi-label Classification with Many Labels*, Wei Bi; James Kwok

- **FEBRUARY 12: Multi-view Data Classification**

- **??:** [Paper 7](#): *A Survey on Multi-view Learning*, Chang Xu, Dacheng Tao, Chao Xu
- **??:** [Paper8](#): ECML'2013: *Shared Structure Learning for Multiple Tasks with Multiple Views*, Xin Jin, Fuzhen Zhuang, Shuhui Wang, Qing He, Zhongzhi Shi
- **??:** [Paper9](#): ICML'2013: *Multi-View Clustering and Feature Learning via Structured Sparsity*, Hua Wang; Feiping Nie; Heng Huang

- **FEBRUARY 26: Outlier Detection and class imbalances**

- **AMEYA MOHAN MALONDKAR:** [Paper10](#): ECML'2013: *Local Outlier Detection with Interpretation*, Xuan Hong Dang, Barbora Micenková, Ira Assent, Raymond T. Ng
- **VINCENT BARNABE LORTIE:** Paper11: ICDM 2013: *Combating Sub-clusters Effect in Imbalanced Classification*, Abhishek Shrivastava, and Yang Zhao
- **HANANE TAVASOLI:** [Paper12](#): KDD'2013: *Subsampling for Efficient and Effective Unsupervised Outlier Detection Ensembles*, Arthur Zimek, Matthew Gaudet, Ricardo J. G. Campello, Jörg Sander

- **MARCH 5: Text Mining**

- **SARA BAGHBANZADEH:** Paper13: ICDM'2013: *Classifying Spam Emails using Text and Readability Features*, Rushdi Shams and Robert Mercer
- **Humberto Villalpando:** [Paper14](#): KDD'2013: *A Phrase Mining Framework for Recursive Construction of a Topical Hierarchy*, Chi Wang, Marina Danilevsky, Nihit Desai, Yinan Zhang, Phuong Nguyen, Thrivikrama Taula, Jiawei Han
- **EKATERINA GUSEVA:** [Paper15](#): ACL'2013: *Separating Fact from Fear: Tracking Flu Infections on Twitter*
Lamb, Paul, Dredze

- **MARCH 12: Data Mining for Health Informatics**

- **ASEEL AWDEH:** Paper16: ICDM'2013: *Exploring Patient Risk Groups with Incomplete Knowledge*, Xiang Wang, Fei Wang, Jun Wang, Buyue Qian, and Jianying Hu
- **MAMOON RASHID:** [Paper17](#): KDD'2013: *Multi-Source Learning with Block-wise Missing Data For Alzheimer's Disease Prediction*, Shuo Xiang, Lei Yuan, Wei Fan, Yalin Wang, Paul Thompson, Jieping Ye
- **SIMING MO:** [Paper18](#): ECML'2013: *Computational Drug Repositioning by Ranking and Integrating Multiple Data Sources*, Ping Zhang, Pankaj Agarwal, Zoran Obradovic

- **MARCH 19: Data Mining for Defense and Security**

- **ASTHA AGARWHAL:** [Paper19](#): SDM'2013: *NetSpot: Spotting Significant Anomalous Regions on Dynamic Networks*, Misael Mongiovi, Petko Bogdanov, Razvan Ranca, Evangelos Papalexakis, Christos Faloutsos, Ambuj Singh

- **KUN YAN:** [Paper20](#): ECML'2013: Evasion Attacks against Machine Learning at Test Time, Battista Biggio, Iginio Corona, Davide Maiorca, Blaine Nelson, Nedim Šrđić
- **WAEAL OBIDALLAH:** [Paper21](#): ECML'2013: Learning to Detect Patterns of Crime, Tong Wang, Cynthia Rudin, Daniel Wagner, Rich Sevieri

- **MARCH 26: Social Network Analysis**

- **QI ZHANG:** [Paper22](#): KDD'2013: *The Role of Information Diffusion in the Evolution of Social Networks*, Lilian Weng, Jacob Ratkiewicz, Nicola Perra, Bruno Goncalves, Carlos Castillo, Francesco Bonchi, Rossano Schifanella, Filippo Menczer, Alessandro Flammini
- **ASHWIN PANCHAPAKESAN:** [Paper23](#): ECML'2013: *Discovering Nested Communities*, Nikolaj Tatti, Aristides Gionis
- **GREG DOHWAN:** [Paper24](#): ICML'2013: *Copy or Coincidence? A Model for Detecting Social Influence and Duplication Events*, Lisa Friedland; David Jensen; Michael Lavine