**Theme: Active Learning**

* [Active learning with evolving streaming data](http://sites.google.com/site/zliobaite/zliobaite_296.pdf), Indrė Žliobaitė, Albert Bifet, Bernhard Pfahringer, Geoff Holmes, ECML’11
* [Unbiased Online Active Learning in Data Streams](http://www.research.rutgers.edu/~lihong/pub/Chu11Unbiased.pdf), Wei Chu, Martin Zinkevich, Lihong Li, Achint Thomas, Belle Tseng, KDD’11
* [Who Should Label What? Instance Allocation in Multiple Expert Active Learning](http://siam.omnibooksonline.com/2011datamining/data/papers/099.pdf) , *Byron C. Wallace*, Kevin Small, and Carla Brodley, Thomas Trikalinos, SDM’11

**Theme: Anomaly Detection**

* [Discovering Emerging Topics in Social Streams via Link Anomaly Detection](http://arxiv.org/PS_cache/arxiv/pdf/1110/1110.2899v1.pdf) , Toshimitsu Takahashi, Ryota Tomioka, and Kenji Yamanishi, ICDM’11
* [Review Graph based Online Store Review Spammer Detection](http://www.cs.uic.edu/~liub/publications/ICDM-2011-final.pdf) , Guan Wang, Sihong Xie, Bing Liu, and Philip S. Yu, ICDM’11

Polonium: [Tera-Scale Graph Mining and Inference for Malware Detection](http://siam.omnibooksonline.com/2011datamining/data/papers/052.pdf) , Duen Horng Chau, Carey Nachenberg, Jeffrey Wilhelm, Adam Wright, Christos Faloutsos, SDM’11

**Theme : Graph Mining**

* [Collective Graph Identification](http://linqs.cs.umd.edu/basilic/web/Publications/2011/namata:kdd11/namata-kdd11.pdf), Galileo Namata, Stanley Kok, Lise Getoor, KDD’11
* [Positive and Unlabeled Learning for Graph Classification](http://www.cs.uic.edu/~xkong/icdm11_gpu.pdf), Yuchen Zhao, Xiangnan Kong, and Philip S. Yu, ICDM’11
* [Dual Active Feature and Sample Selection for Graph Classification](http://www.cs.uic.edu/~xkong/kdd11_gactive.pdf) , Xiangnan Kong, Wei Fan, Philip Yu, KDD’11

**Theme: Evaluation**

* [Comparing Apples and Oranges - Measuring Differences between Data Mining Results](http://adrem.ua.ac.be/~jvreeken/pubs/2011/comparing_apples_and_oranges-tatti,vreeken.pdf) , Nikolaj Tatti, Jilles Vreeken, ECML’11
* [An Analysis of Performance Measures for Binary Classifiers](http://www.clparker.org/parker-measure.pdf) , Charles Parker, ECML’11
* [Consequences of Variability in Classifier Performance Estimates](http://www.nd.edu/~dial/papers/ICDM10.pdf) , Troy Raeder, T. Ryan Hoens, and Nitesh V. Chawla, ICDM’10

**Theme: Discovery/ Mining**

* [Finding Communities in Dynamic Social Networks](http://compbio.cs.uic.edu/~chayant/papers/TantiBergerWolf2011ICDM.pdf) , Chayant Tantipathananandh and Tanya Berger-Wolf, ICMD’11
* [Detecting Recurring and Novel Classes in Concept-Drifting Data Streams](http://www.cs.uiuc.edu/~hanj/pdf/icdm11_mmasud.pdf) , Mohammad Masud, Tahseen Al-Khateeb, Latifur Khan, Charu Aggarwal, Jing Gao, and Jiawei Han, ICDM’11
* [Non-Redundant Subgroup Discovery in Large and Complex Data](http://www.kiminkii.com/publications/ecmlpkdd2011.pdf)  
  Matthijs van Leeuwen, Arno Knobbe, ECML’11

**Theme: Various Interesting Papers**

* [Multi-Label Collective Classification](http://www.cs.uic.edu/~xkong/sdm11_icml.pdf) , Xiangnan Kong, Xiaoxiao Shi, Philip Yu, SDM’11
* [User Reputation in a Comment Rating Environment](http://users.cis.fiu.edu/~lzhen001/activities/KDD2011Program/docs/p159.pdf) , Bee-Chung Chen\*, Belle Tseng, Jie Yang, Jian Guo, KDD’11
* [Learning from Negative Examples in Set-Expansion](http://cogcomp.cs.illinois.edu/papers/JindalRo11.pdf) , Prateek Jindal and Dan Roth
* [Semi-Supervised Feature Importance Evaluation with Ensemble Learning](http://www.site.uottawa.ca/~nat/Courses/csi5387_Winter2012/PID2104991.pdf), Barkia Hasna, Elghazel Haytham, and Aussem Alex, ICDM’11