

Feida ZHU

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Citizenship: Chinese



Education

2001 - 2009	Doctor of Philosophy Computer Science University of Illinois at Urbana-Champaign, USA
1997 - 2001	Bachelor of Science Computer Science Fudan University, China

Position(s) Held

Sep 2009 - Now	Assistant Professor (From Jan 2010) Lecturer (as of Sep 2009) School of Information Systems Singapore Management University
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Chapters in Books

1. "InfoNetOLAP: OLAP and Mining of Information Networks", by Chen CHEN, Feida ZHU, Xifeng YAN, Jiawei HAN, Yu PHILIP S., and Raghu RAMACRISHNAN, in *Link Mining: Models, Algorithms and Applications*, edited by Philip S. Yu, Christos Faloutsos, and Jiawei Han, Springer, 2010.
2. "Mining Frequent Approximate Sequential Patterns", by Feida ZHU, Xifeng YAN, Philip S. YU, and Jiawei HAN, in *Next Generation of Data Mining*, edited by Hillol Kargupta, Chapman & Hall/CRC Press, 2009, 69-90.

Journal Articles (Refereed)

1. "Mining Diversity on Social Media Networks", by Lu LIU, Feida ZHU, Meng JIANG, Jiawei HAN, Lifeng SUN, and Shiqiang YANG, 2012, 56(1), *Multimedia Tools and Applications*, 179-205
2. "Mining Top-K Large Structural Patterns in a Massive Network", by Feida ZHU, Qiang QU, David LO, Xifeng YAN, Jiawei HAN, and Yu PHILIP S., 2011, 4(11), *PVLDB*, 807-818
3. "Graph OLAP: Towards Onnline Analytical Processing on Graphs", by Chen CHEN, Xifeng YAN, Feida ZHU, Jiawei HAN, and Philip S. YU, 2009, 21, 1, *Knowledge and Information Systems (KAIS)*, 41-63
4. "Feature-based Substructure Similarity Search", by Xifeng YAN, Feida ZHU, Philip S. YU, and Jiawei HAN, 12/2006, 31, 4, *ACM Transactions on Database Systems (TODS)*, 1418-1453

Conference Papers (Refereed)

1. "On Finding the Point Where There Is No Return: Turning Point Mining on Game Data", by Wei GONG, Ee Peng LIM, Feida ZHU, Palakorn ACHANANUPARP, and David LO, 04/2014, *SIAM Conference on Data Mining (SDM2014)*, Philadelphia
2. "TopicSketch: Real-time Bursty Topic Detection from Twitter", by Wei XIE, Feida ZHU, Jing JIANG, Ee Peng LIM, and Ke WANG, 12/2013, *the 13th IEEE International Conference on Data Mining (ICDM'13)*, Dallas, Texas, December, 2013
3. "Information vs Interaction: An Alternative User Ranking Model for Social Networks", by Wei XIE, Ai Phuong HOANG, Feida ZHU, and Ee Peng LIM, 11/2013, *International Conference on Social Informatics (SocInfo2013)*, Kyoto
4. "Predicting Best Answerers for New Questions: An Approach Leveraging Topic Modeling and Collaborative Voting", by Yuan TIAN, Pavneet Singh KOCHHAR, Ee-Peng LIM, Feida ZHU, and David LO, 11/2013, *Workshop of Quality, Motivation and Coordination of Open Collaboration (QMC)*
5. "Predicting user's political party using ideological stances", by Swapna GOTTIPATI, Minghui QIU, Liu YANG, Feida ZHU, and Jing JIANG, 11/2013, 177-191, *International Conference on Social Informatics (SocInfo'13)*, Kyoto, Japan
6. "CQARank: Jointly Model Topics and Expertise in Community Question Answering", by Liu YANG, Minghui QIU, Swapna GOTTIPATI, Feida ZHU, Jing JIANG, Huiping SUN, and Zhong CHEN, 10/2013, *ACM International Conference on Information and Knowledge Management (CIKM 2013)*, San Francisco, USA
7. "DelayFlow Centrality for Identifying Critical Nodes in Transportation Networks", by Yew-Yih CHENG, Roy Ka-Wei LEE, Ee Peng LIM, and Feida ZHU, 08/2013, *The international conference on Advances in Social Network Analysis and Mining (ASONAM 2013)*, Niagara Falls, Canada
8. "FloTra: Flower-shape Trajectory Mining for Instance-specific Parameter Tuning", by Lindawati LINDAWATI, Feida ZHU, and Hoong Chuin LAU, 08/2013, *The 10th edition of the Metaheuristics International Conference (MIC 2013)*, Singapore
9. "Reviving Dormant Ties in an Online Social Network Experiment", by Ee Peng LIM, Denzil CORREA, David LO, Michael FINEGOLD, and Feida ZHU, 07/2013, *THE 7TH INTERNATIONAL AAAI CONFERENCE ON WEBLOGS AND SOCIAL MEDIA (ICWSM'13)*, Boston, MA, USA
10. "A Direct Mining Approach To Efficient Constrained Graph Pattern Discovery", by Feida ZHU, Zequn ZHANG, and Qiang QU, 06/2013, *ACM SIGMOD International Conference on Management of Data*, New York City, NY, USA
11. "Real Time Event Detection in Twitter", by Xun WANG, Feida ZHU, Jing JIANG, and Sujian LI, 06/2013, *The 14th International Conference on Web-Age Information Management (WAIM'13)*, Beidaihe, China
12. "It Is Not Just What We Say, But How We Say Them: LDA-based Behavior-Topic Model", by Minghui QIU, Feida ZHU, and Jing JIANG, 05/2013, *2013 SIAM International Conference on Data Mining (SDM'13)*, Austin, Texas, USA, May, 2013
13. "TwiCube: A Real-time Twitter Online Community Analysis Tool", by Juan DU, Wei XIE, Cheng LI, Feida ZHU, and Ee Peng LIM, 04/2013, *The 18th International Conference on Database Systems for Advanced Applications (DASFAA'13)*, Wuhan, China, April, 2013
14. "Dynamic Label Propagation in Social Networks", by Juan DU, Feida ZHU, and Ee Peng LIM, 04/2013, *The 18th International Conference on Database Systems for Advanced Applications*

(DASFAA'13), Wuhan, China, April, 2013

15. "TwiCube: A Real-time Twitter Online Community Analysis Tool", by Juan DU, Wei XIE, Cheng LI, Feida ZHU, and Ee-Peng LIM, 04/2013, *The 18th International Conference on Database Systems for Advanced Applications (DASFAA'13)*, Wuhan, China, April, 2013
16. "Automated Parameter Tuning Framework for Heterogeneous and Large Instances: Case study in Quadratic Assignment Problem", by - LINDAWATI, Zhi YUAN, Hoong Chuin LAU, and Feida ZHU, 01/2013, *Learning and Intelligent OptimizatioN Conference (LION)*, Catania, Italy
17. "A Survey of Recommender Systems in Twitter", by Su Mon KYWE, Ee Peng LIM, and Feida ZHU, 12/2012, *International Conference on Social Informatics*, Lausanne
18. "On Recommending Hashtags in Twitter Networks", by Su Mon KYWE, Tuan Anh HOANG, Ee Peng LIM, and Feida ZHU, 12/2012, *International Conference on Social Informatics*, Lausanne
19. "Detecting Anomalies in Bipartite Graphs with Mutual Dependency Principles", by Hanbo DAI, Feida ZHU, Ee Peng LIM, and Hwee Hwa PANG, 12/2012, *The 12th IEEE International Conference on Data Mining (ICDM'12)*, Brussels, Belgium
20. "Impact of Multimedia in Sina Weibo: Popularity and Life Span", by Xun ZHAO, Feida ZHU, Weining QIAN, and Aoying ZHOU, 11/2012, *The Joint Conference of the Sixth Chinese Semantic Web Symposium and the First Chinese Web Science Conference (CSWS & CWSC '12)*, Shenzheng, China
21. "Mining Coherent Anomaly Collections On Web Data", by Hanbo DAI, Feida ZHU, Ee Peng LIM, and Hwee Hwa PANG, 10/2012, *the 21st Int. Conf. on Information and Knowledge Management (CIKM'12)*, Hawaii, USA
22. "In-Game Action List Segmentation and Labeling in Real-Time Strategy Games", by Wei GONG, Ee Peng LIM, Feida ZHU, Achananuparp PALAKORN, David LO, and Chong Tat Freddy CHUA, 09/2012, *the 8th IEEE Conference on Computational Intelligence and Games (CIG' 12)*, Granada, Spain
23. "Follow Link Seeking Strategy: A Pattern Based Approach", by Agus Trisnajaya KWEE, Ee Peng LIM, Achananuparp PALAKORN, and Feida ZHU, 08/2012, *the 6th ACM workshop on Social Network Mining and Analysis (SNAKDD' 12)*, Beijing, China
24. "Collective Churn Prediction in Social Network", by Jayadi Oentaryo RICHARD, Ee Peng LIM, David LO, Feida ZHU, and Philips Kokoh PRASETYO, 08/2012, *Proc. of the 4th Int. Conf. on Advances in Social Networks Analysis and Mining (ASONAM'12)*, Istanbul, Turkey
25. "Instance-specific Parameter Tuning via Constraint-based Clustering", by Lindawati LINDAWATI, Hoong Chuin LAU, and Feida ZHU, 08/2012, *Proc. of the 1st Int. Workshop on COmbining COnstraint solving with MIning and LEarning(CoCoMile' 12) joint with ECAI 2012*, Montpellier, France
26. "Finding Bursty Topics From Microblogs", by Qiming DIAO, Jing JIANG, Feida ZHU, and Ee Peng LIM, 07/2012, 536-544, *50th Annual Meeting of the Association for Computational Linguistics (ACL)*, Jeju Island, Korea
27. "Detecting Anomalous Twitter Users by Extreme Group Behaviors", by Hanbo DAI, Ee Peng LIM, Feida ZHU, and Hwee Hwa PANG, 07/2012, *Proc. of the 2012 ACM Int. Conf. on Net Science (NetSci' 12)*, Chicago, Illinois, USA
28. "Detecting Extreme Rank Anomalous Collections", by Hanbo DAI, Feida ZHU, Ee Peng LIM, and Hwee Hwa PANG, 04/2012, *SIAM International Conference on Data Mining (SDM)*, Anaheim, California, USA

29. "When a Friend in Twitter is a Friend in Life", by Wei XIE, Cheng LI, Feida ZHU, Ee Peng LIM, and Xueqing GONG, 04/2012, *the 4th ACM Int. Conf. on Web Science (WebSci' 12)*, Chicago, Illinois, USA
30. "Efficient Topological OLAP on Information Networks", by Qiang QU, Feida ZHU, Xifeng YAN, Jiawei HAN, Philip YU, and Hongyan LI, 2011, *The 16th International Conference on Database Systems for Advanced Applications(DASFAA)*, Hong Kong
31. "On Modeling Virality of Twitter Content", by Tuan Anh HOANG, Ee Peng LIM, Palakorn ACHANANUPARP, Jing JIANG, and Feida ZHU, 2011, *International Conference on Asia-Pacific Conference on Digital Libraries (ICADL2011)*, Beijing China
32. "Mining Top-K Large Structural Patterns in Massive Networks", by Feida ZHU, Qiang QU, David LO, Xifeng YAN, Jiawei HAN, and Philip YU, 09/2011, *37th International Conference on Very Large Data Bases (VLDB'11)*
33. "Mining Diversity on Networks", by Liu LU, Feida ZHU, Chen CHEN, Xifeng YAN, Jiawei HAN, Philip YU, and Shiqiang YANG, 04/2010, *15th Database Systems for Advanced Applications (DASFAA) 2010*, Tsukuba, Japan
34. "TopK Aggregation Queries Over Large Networks", by Xifeng YAN, Bin HE, Feida ZHU, and Jiawei HAN, 03/2010, *26th International Conference on Data Engineering Conference (ICDE 2010)*, Long Beach, CA, USA
35. "Graph OLAP: Towards Online Analytical Processing on Graphs", by Chen CHEN, Xifeng YAN, Feida ZHU, Jiawei HAN, and Philip S. YU, 12/2008, *Proceedings of 2008 International Conference on Data Mining (ICDM '08)*, Pisa, Italy
36. "Text Cube: Computing IR Measures for Multidimensional Text Database Analysis", by Cindy Xinde LIN, Bolin DING, Jiawei HAN, Feida ZHU, and Bo ZHAO, 12/2008, *Proceedings of 2008 International Conference on Data Mining (ICDM '08)*, Pisa, Italy
37. "Efficient Discovery of Approximate Sequential Patterns", by Feida ZHU, Xifeng YAN, Jiawei HAN, and Philip S. YU, 10/2007, *Proceedings of 2007 International Conference on Data Mining (ICDM '07)*, Omaha, USA
38. "gApprox: Mining Frequent Approximate Patterns from a Massive Network", by Chen CHEN, Xifeng YAN, Feida ZHU, and Jiawei HAN, 10/2007, *Proceedings of 2007 International Conference on Data Mining (ICDM '07)*, Omaha, USA
39. "gPrune: A Constraint Pushing Framework for Graph Pattern Mining", by Feida ZHU, Xifeng YAN, Jiawei HAN, and Philip S. YU, 05/2007, *Proceedings of 2007 Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD '07)*, Nanjing, China
40. "Mining Colossal Frequent Patterns by Core Pattern Fusion", by Feida ZHU, Xifeng YAN, Jiawei HAN, Philip S. YU, and Hong CHENG, 04/2007, *Proceedings of 2007 International Conference on Data Engineering (ICDE '07)*, Istanbul, Turkey
41. "Searching Substructures with Superimposed Distance", by Xifeng YAN, Feida ZHU, Jiawei HAN, and Philip S. YU, 04/2006, *Proceedings of 2006 International Conference on Data Engineering (ICDE '06)*, Atlanta, Georgia

Awards, Recognition and Honors

1. Best Student Paper Award, the 23rd IEEE International Conference on Data Engineering (ICDE'07), 2007
2. Best Student Paper Award, The 11th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD'07) , 2007

3. Best Demo Paper Runner-up Award, the 18th International Conference on Database Systems for Advanced Applications (DASFAA'13), 2013

Conference Program Committee and Advisory Services

1. Program Committee Member, WWW demo track, the 20th International World Wide Web Conference, 28 March 2011 - 01 April 2011
2. Program Committee Member, The Fifth ACM Conference on Web Search and Data Mining (WSDM 2012), ACM, 08 February 2012 - 12 February 2012
3. Program Committee Member, The 28th IEEE International Conference on Data Engineering (ICDE2012), IEEE, 01 April 2012 - 04 April 2012
4. Program Committee Member, The 3rd International Workshop on Graph Data Management: Techniques and Applications (GDM 2012), IEEE, 05 April 2012 - 05 April 2012
5. Program Committee Member, The 1st International Workshop on Large Scale Network Analysis (LSNA 2012) , The 1st International Workshop on Large Scale Network Analysis (LSNA 2012) , 16 April 2012 - 16 April 2012
6. Workshop Co-Chair, Workshop Organizing Committee, "Data Mining: Twenty Years and Beyond" --- joint Workshop with KDD'12, August 2012 - August 2012
7. Program Committee Member, Conference Program Committee, The 21st Int. Conf. on Information and Knowledge Management (CIKM'12), October 2012 - October 2012
8. Program Co-Chair, Workshop Program, The 2012 International Workshop on Fraud Detection in Mobile Advertising (FDMA'12), in conjunction with Asian Conference on Machine Learning (ACML'12) , November 2012 - November 2012
9. Program Committee Member, Conference Program Committee, The 12th IEEE International Conference on Data Mining (ICDM'12), December 2012 - December 2012
10. Program Committee Member, Conference Program Committee, The 12th International Symposium on Pervasive Systems, Algorithms, and Networks (I-SPAN'12) , December 2012 - December 2012
11. Program Committee Member, Conference Program Committee, The 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD'13), April 2013 - April 2013
12. Program Committee Member, Conference Program Committee, The IEEE 28th International Conference on Data Engineering (ICDE'13), April 2013 - April 2013
13. Program Committee Member, Conference Program Committee, 2013 SIAM International Conference on Data Mining (SDM'13), May 2013 - May 2013
14. Program Committee Member, Workshop Program Committee, The 2nd International Workshop on Large Scale Network Analysis (LSNA'13), May 2013 - May 2013
15. Program Committee Member, Conference Program Committee, The 14th International Conference on Web-Age Information Management (WAIM'13), June 2013 - June 2013
16. Program Committee Member, Conference Program Committee, The 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'13), August 2013 - August 2013

17. Senior Program Committee Member, Conference Program Committee, The 22nd ACM International Conference on Information and Knowledge Management (CIKM 2013) , October 2013 - October 2013
18. Organizing Committee Chair, Conference Organizing Committee, The 19th International Conference on Database Systems for Advanced Applications (DASFAA'14), April 2014 - April 2014
19. Demo Committee Co-Chair, Conference Demo Committee, The 19th International Conference on Database Systems for Advanced Applications (DASFAA'14), April 2014 - April 2014
20. Demo Co-Chair, Research Demo Committee, The 16th Asia-Pacific Web Conference (APWeb'14), 2014
21. Program Co-Chair, Research Program Committee, The 7th International Workshop on Social Network Mining and Analysis (SNAKDD'13), 2013
22. Program Committee Member, Research Program Committee, the 2nd IEEE International Conference on Big Data and Distributed Systems(BDDS 2013), 03 December 2013 - 05 December 2013

Courses Taught - Undergraduate

1. IS424 Data Mining and Business Analytics, January 2010 - April 2010
2. IS424 Data Mining and Business Analytics, January 2011 - April 2011
3. IS424 Data Mining and Business Analytics, January 2012 - April 2012
4. IS102 Computer as an Analysis Tool, January 2012 - April 2012
5. IS480 IS Application Project, January 2010 - April 2010
6. IS480 IS Application Project, January 2011 - April 2011
7. IS424 Data Mining and Business Analytics, January 2013 - April 2013
8. IS102 Computer as an Analysis Tool, January 2013 - April 2013

Courses Taught - Ph. D

1. IS755 "Advanced Topics in Network Mining", January 2012 - April 2012
2. IS755 Advanced Topics in Network Mining, January 2013 - April 2013

Grants

1. "Actionable Pattern Mining for Dynamic Social Network", LARC funded project , 01 April 2011 - 31 March 2013
2. "Twitalytics: Interactive Social Analytics for Twitter Data", LARC funded project, 01 December 2011 - 30 November 2014

Research Interests

1. Data mining, graph/network mining, social network analysis and large-scale data management

Other Research

1. Algorithm design and analysis, complexity analysis

Thesis Student (Ph. D)

1. On the Ph.D. thesis committee of Liping Chen, Computer Science Department, University of Illinois at Urbana-Champaign (UIUC), August 2009 - June 2011
2. Ph.D. thesis advisor of Wei Gong, School of Information Systems, Singapore Management University, August 2011
3. On the Ph.D. thesis committee of Swapna GOTTIPATI, School of Information Systems, Singapore Management University, August 2011
4. On the Ph.D. thesis committee of Hanbo Dai, School of Information Systems, Singapore Management University, August 2010

Working Papers

1. "Mining Multi-Granular Discriminative Sequential Patterns", by David LO, Feida ZHU, Shaowei WANG, and Yang QIAO, 2010

Invited Academic Talks, Lectures and Panels

1. "Behavior-driven Social Network Mining and Analysis", by Feida ZHU and Ee Peng LIM, 04/2013, *Conference Tutorial at the 18th International Conference on Database Systems for Advanced Applications (DASFAA'13)*, Wuhan, China
2. "Conneting the two worlds --- offline community mining and its applications", by Feida ZHU, 05/2012, *The Symposium on Computatonal Advertising*, East China Normal University, Shanghai, China

Memberships in Professional Organizations

1. member, professional member, IEEE, August 2009
2. Member , ACM Professional Member, The Association for Computing Machinery (ACM), 2010

Chapters in Books (Forthcoming)

1. "Large Frequent Pattern Mining", by Feida ZHU, in *Frequent Pattern Mining*, edited by Charu Aggarwal and Jiawei Han, Springer, 2014.

Conducting Workshops

1. The 7th International Workshop on Social Network Mining and Analysis (SNAKDD'13) to be held in conjunction with The 19th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2013), August 2013

Invited Talks

1. "Connecting the two worlds: offline community discovery and its applications", Invited talk at the Symposium of Computational Advertising at East China Normal University, Shanghai, China. , May 2012 - May 2012
2. "Behavior-driven Social Network Mining and Analysis", Tutorial at the 18th International Conference on Database Systems for Advanced Applications (DASFAA'13), Wuhan, China. , April 2013 - April 2013
3. "Big Data: Challenges and Opportunities", invited talk at Ping An Insurance (Group) Company of China. , April 2013
4. the 2013 INFORMS Annual Meeting in Minneapolis, Minnesota, October 6-9 2013., 06 October 2013 - 09 October 2013
5. "It Is Not Just What We Say, But How We Say Them: LDA-based Behavior-Topic Model", invited talk at LARC Workshop on Social Network Analysis and Mining, Singapore, August 2013
6. "When a friend in Twitter is a friend in life", invited talk at the 2nd Annual Workshop on Analytics for Business, Consumer and Social Insights, Singapore, August 2013