ZHU Feida

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Education

PhD, University of Illinois at Urbana Champaign, United States of America, 2009

Bachelor of Science, Fudan University, China, 2001

Academic Appointments

Associate Professor of Information Systems, School of Information Systems, SMU, Jan 2018 - Present

Assistant Professor of Information Systems, School of Information Systems, SMU, Jan 2010 - Dec 2017

Lecturer of Information Systems, School of Information Systems, SMU, Sep 2009 - Dec 2009

Academic Administrative Positions

Academic Director, DBS Life Analytics Lab, School of Information Systems, SMU, Oct 2015 - Oct 2016

Academic Director, Pinnacle Lab for Analytics, School of Information Systems, SMU, Sep 2013 - Mar 2018

RESEARCH

Research Interests

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

Publications

Journal Articles [Refereed]

Time-aware conversion prediction, by JI, Wendi; WANG, Xiao Ling; ZHU, Feida. (2017). *Frontiers of Computer Science -Springer-, 11* (4), 702-716. http://doi.org./10.1007/s11704-016-5546-y (Published)

From footprint to evidence: An exploratory study of mining social data for credit scoring, by GUO, Guangming; ZHU, Feida; CHEN, Enhong; LIU, Qi; WU, Le; GUAN, Chu. (2016). *ACM Transactions on the Web, 10* (4), http://doi.org/10.1145/2996465 (Published)

Efficient online summarization of large-scale dynamic networks, by QU, Qiang; LIU, Siyuan; ZHU, Feida; JENSEN, Christian S.. (2016). *IEEE Transactions on Knowledge and Data Engineering, 28* (12), 3231-3245. http://doi.org./10.1109/TKDE.2016.2601611 (Published)

TopicSketch: Real-time bursty topic detection from Twitter, by XIE, Wei; ZHU, Feida; JIANG, Jing; LIM, Ee-Peng; WANG, Ke. (2016). *IEEE Transactions on Knowledge and Data Engineering, 28* (8), 2216-2229. http://dx.doi.org/10.1109/TKDE.2016.2556661 (Published)

Learning to find topic experts in Twitter via different relations, by WEI, Wei; CONG, Gao; MIAO, Chunyan; ZHU, Feida; LI, Guohui. (2016). *IEEE Transactions on Knowledge and Data Engineering, PP* (99), (Published)

Discovering burst patterns of burst topic in twitter, by DONG, Guozhong; YANG, Wu; ZHU, Feida; WANG, Wei. (2016). *Computers and Electrical Engineering, 58* 1-9. http://doi.org./10.1016/j.compeleceng.2016.06.012 (Published)

Exploring heterogeneous features for query-focused summarization of categorized community answers, by WEI, Wei; MING, ZhaoYan; NIE, Liqiang; LI, Guohui; LI, Jianjun; ZHU, Feida; SHANG, Tianfeng; LUO, Changyin. (2016). *Information Sciences, 330* 403-423. http://dx.doi.org/10.1016/j.ins.2015.10.024 (Published)

A Bayesian recommender model for user rating and review profiling, by JIANG, Mingming; SONG, Dandan; LIAO, Lejian; ZHU, Feida. (2015). *Tsinghua Science and Technology, 20* (6), 634-643. http://dx.doi.org/10.1109/TST.2015.7350016 (Published)

Structured learning from heterogeneous behavior for social identity linkage, by LIU, Siyuan; WANG, Shuhui; ZHU, Feida. (2015). *IEEE Transactions on Knowledge and Data Engineering, 27* (7), 2005-2019. http://dx.doi.org/10.1109/TKDE.2015.2397434 (Published)

Detecting anomaly collections using extreme feature ranks, by DAI, Hanbo; ZHU, Feida; LIM, Ee Peng; PANG, Hwee Hwa. (2015). *Data Mining and Knowledge Discovery, 29* (3), 689-731. https://doi.org/10.1007/s10618-014-0360-3 (Published)

Detecting click fraud in online advertising: A data mining approach, by OENTARYO, Richard; LIM, Ee Peng; FINEGOLD, Michael; LO, David; ZHU, Feida; PHUA, Clifton; CHEU, Eng-Yeow; YAP, Ghim-Eng; SIM, Kelvin; Nguyen, Minh Nhut; Perera, Kasun; Neupane, Bijay; Faisal, Mustafa; Aung, Zeyar; WOON, Wei Lee; CHEN, Wei; Dhaval Patel, Dhaval; Berrar, Daniel. (2014). *Journal of Machine Learning Research, 15* 99-140. http://jmlr.org/papers/v15/oentaryo14a.html (Published)

A probabilistic graphical model for topic and preference discovery on social media, by LU, Liu; ZHU, Feida; ZHANG, Lei; YANG, Shiqiang. (2012). *Neurocomputing, 95* 78-88. https://doi.org/10.1016/j.neucom.2011.05.039 (Published)

Mining diversity on social media networks, by LIU, Lu; ZHU, Feida; JIANG, Meng; Han, Jiawei; SUN, Lifeng; YANG, Shiqiang. (2012). *Multimedia Tools and Applications, 56* (1), 179-205. (Published)

Graph OLAP: A multi-dimensional framework for graph data analysis, by CHEN, Chen; YAN, Xifeng; ZHU, Feida; HAN, Jiawei; YU, Philip S.. (2009). *Knowledge and Information Systems, 21* (1), 41-63. http://dx.doi.org/10.1007/s10115-009-0228-9 (Published)

Feature-based similarity search in graph structures, by YAN, Xifeng; ZHU, Feida; YU, Philip S.; HAN, Jiawei. (2006). *ACM Transactions on Database Systems, 31* (4), 1418-1453. https://doi.org/10.1145/1189769.1189777 (Published)

Journal Articles [Non-Refereed]

Factored similarity models with social trust for top-N item recommendation, by GUO, Guibing; ZHANG, Jie; ZHU, Feida; WANG, Xingwei. (2017). *Knowledge-based Systems, 122* 17-25. http://doi.org/10.1016/j.knosys.2017.01.027 (Published)

Book Chapters

Measuring centralities for transportation networks beyond structures, by CHENG, Yew-Yih; LEE, Roy Ka-Wei; LIM, Ee-Peng; ZHU, Feida. (2015). In P. Kazienko and N. Chawla (Ed.), *Applications of Social Media and Social Network Analysis* (pp. 23-39) Springer International Publishing. http://doi.org./10.1007/978-3-319-19003-7_2 (Published)

Mining Long Patterns, by ZHU, Feida. (2014). In Aggarwal, Charu C.; Han, Jiawei (Ed.), *Frequent Pattern*

Mining (pp. 83-104) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-319-07821-2_4 (Published)

InfoNetOLAP: OLAP and Mining of Information Networks, by CHEN, CHEN; ZHU, Feida; YAN, Xifeng; HAN, Jiawei; Philip S., Yu; Ramacrishnan, Raghu. (2010). In Philip S. Yu, Christos Faloutsos, and Jiawei Han (Ed.), *Link Mining: Models, Algorithms and Applications* (pp. 411-438) New York: Springer Verlag. http://dx.doi.org/10.1007/978-1-4419-6515-8_16 (Published)

Feature-based Substructure Similarity Search, by ZHU, Feida; YAN, Xifeng; YU, Philip S.; HAN, Jiawei. (2009). *Next Generation of Data Mining* (pp. 69-90) Boca Raton, FL: CRC Press. http://worldcat.org/isbn/9781420085860 (Published)

Conference Proceedings

Effective K-Vertex connected component detection in large-scale networks, by LI, Yuan; ZHAO, Yuha; WANG, Wang; ZHU, Feida; WU, Yubao; SHI, Shenglei. (2017). *Proceedings of The 22nd International Conference on Database Systems for Advanced Applications: Suzhou, China, 2017 March 27-30,* (pp. 404-421) Suzhou, China: http://doi.org./10.1007/978-3-319-55699-4_25 (Published)

Streaming classification with emerging new class by class matrix sketching, by MU, Xin; ZHU, Feida; DU, Juan; LIM, Ee-Peng; ZHOU, Zhi-Hua. (2017). *The Proceedings of The Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17): San Fransisco, USA, 2017 February 4-9,* (pp. 2373-2379) San Fransisco: AAAI. (Published)

Efficient community maintenance for dynamic social networks, by QIN, Hongchao; YUAN, Ye; ZHU, Feida; WANG, Guoren. (2016). *APWeb 2016: Proceedings, Part II: 18th Asia-Pacific Web Conference, Suzhou, China, 2016 September 23-25.,* (pp. 478-482) Switzerland: Springer International Publishing. http://doi.org./10.1007/978-3-319-45817-5_50 (Published)

When a friend online is more than a friend in life: Intimate relationship prediction in microblogs, by LAN, Yunshi; ZHANG, Mengqi; ZHU, Feida; JIANG, Jing; LIM, Ee-Peng. (2016). *Web Technologies and Applications: 18th Asia-Pacific Web Conference APWeb 2016, Suzhou, China, September 23-25: Proceedings,* (pp. 196-207) Cham: Springer. https://doi.org/10.1007/978-3-319-45814-4_16 (Published)

Detecting community pacemakers of burst topic in Twitter, by DONG, Guozhong; YANG, Wu; ZHU, Feida; WANG, Wei. (2016). *APWeb 2016: Proceedings of the 18th Asia Pacific Web Conference: Suzhou, China, 2016 September 23-25,* (pp. 245-255) Switzerland: Springer. http://doi.org./10.1007/978-3-319-45814-4_20 (Published)

User identity linkage by latent user space modelling, by MU, Xin; ZHU, Feida; LIM, Ee-Peng; XIAO, Jing; WANG, Jianzong; ZHOU, Zhi-Hua. (2016). *KDD '16: Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining: San Francisco, California, August 13-17, 2016,* (pp. 1775-1784) New York: ACM. http://doi.org/10.1145/2939672.2939849 (Published)

Dpbt: A system for detecting pacemakers in burst topics, by DONG, Guozhong; YANG, Wu; ZHU, Feida; WANG, Wei. (2016). *Proceedings of the 17th International conference on Web-Age Information Management, Nanchang, China, 2016 June 3-5,* (pp. 537-540) Nanchang, China: Springer. http://doi.org./10.1002/smj.260410.1007/978-3-319-39958-4 (Published)

On unravelling opinions of issue specific-silent users in social media, by GONG, Wei; LIM, Ee-Peng; ZHU, Feida; CHER, Pei Hua. (2016). *The Proceedings of the Tenth International AAAI Conference on Web and Social Media,* Palo Alto, California: AAAI. (Published)

Mining social ties beyond homophily, by LIANG, Hongwei; WANG, Ke; ZHU, Feida. (2016). *IEEE 32nd International Conference on Data Engineering (ICDE) 2016: May 16-20, 2016, Helsinki, Finland: Proceedings,* Piscataway, NJ: IEEE. (Published)

When peculiarity makes a difference: Object characterisation in heterogeneous information networks, by CHEN, Wei; ZHU, Feida; ZHAO, Lei; ZHOU, Xiaofang. (2016). *Database Systems for Advanced Applications: 21st International Conference, DASFAA 2016, Dallas, TX, USA, April 16-19, 2016, Proceedings, Part II,* (pp. 3-17) Cham: Springer. http://doi.org/10.1007/978-3-319-32049-6_1 (Published)

Personal credit profiling via latent user behavior dimensions on social media, by GUO, Guangming; ZHU, Feida; CHEN, Enhong; WU, Le; LIU, Qi; LIU, Yingling; QIU, Minghui. (2016). *20th Pacific-Asia Conference, PAKDD 2016, Auckland, New Zealand, April 19-22, 2016, Proceedings, Part II,* (pp. 130-142) Auckland, New Zealand: Springer International Publishing. (Published)

A comparison of fundamental network formation principles between offline and online friends on Twitter, by NATALI, Felicia; ZHU, Feida. (2016). *Proceeding on the 12th International Conference and School on Advances in Network Science, Wroclaw, Poland, 2016 January 11-13,* (pp. 169-177) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-319-28361-6_14 (Published)

Investigating the influence of offline friendship on Twitter networking behaviors, by KIM, Young Soo; NATALI, Felicia; ZHU, Feida; LIM, Ee Peng. (2016). *2016 Hawaii International Conference on System Sciences, January 5-9, Kauai, Hawaii: Proceedings,* (pp. 736-745) Los Alamitos, CA: IEEE Computer Society. http://dx.doi.org/10.1109/HICSS.2016.97 (Published)

Information source detection via maximum a posteriori estimation, by CHANG, Biao; ZHU, Feida; CHEN, Enhong; LIU, Qi.. (2015). *Proceedings 15th IEEE International Conference on Data Mining ICDM 2015,* (pp. 21-30) MA, USA: IEEE. http://doi.org./10.1002/smj.260410.1109/ICDM.2015.116 (Published)

Posting topics reading topics: On discovering posting and reading topics in social media, by GONG, Wei; LIM, Ee-Peng; ZHU, Feida. (2016). *Advances in Network Science: 12th International Conference and School, NetSci-X 2016, Wroclaw, Poland, January 11-13, 2016, Proceedings,* (pp. 14-18) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-319-28361-6_2 (Published)

CNL: Collective network linkage across heterogeneous social platforms, by GAO, Ming; LIM, Ee-Peng; LO, David; ZHU, Feida; PRASETYO, Philips Kokoh; ZHOU, Aoying. (2015). *IEEE International Conference on Data Mining ICDM 2015: November 14-17, 2015, Atlantic City: Proceedings,* (pp. 757-762) Piscataway, NJ: IEEE. http://dx.doi.org/10.1109/ICDM.2015.34 (Published)

Modelling cascades over time in microblogs, by XIE, Wei; ZHU, Feida; LIU, Siyuan; WANG, Ke. (2015). *Proceedings 2015 IEEE International Conference on Big Data: Santa Clara, CA, 29 October - 1 November 2015,* (pp. 677-686) Piscataway, NJ: IEEE. http://doi.org/10.1109/BigData.2015.7363812 (Published)

CrowdLink: An Error-Tolerant Model for Linking Complex Records, by ZHANG, Chen Jason; MENG, Rui; CHEN, Lei; ZHU, Feida. (2015). *ExploreDB '15 Proceedings of the Second International Workshop on Exploratory Search in Databases and the Web,* (pp. 15-20) New York, NY, USA: ACM. (Published)

Characterizing Silent Users in Social Media Communities, by GONG, Wei; LIM, Ee-Peng; ZHU, Feida. (2015). *Proceedings of the Ninth International AAAI Conference on Web and Social Media: May 26-29, 2015, Oxford,* (pp. 140-149) Palo Alto, CA: AAAI Press. (Published)

DaVinci: Data-driven Visual Interface Construction for Subgraph Search in Graph Databases, by ZHANG, Jinbo; BHOWMICH, Sourav; NGUYEN, Hong; CHOI, Byron; ZHU, Feida. (2015). *Proceedings of the 31st International Conference on Data Engineering 2015: ICDE 2015: 13-17 April, Seoul, Korea,* (pp. 1500-1503) Los Alamitos, CA: IEEE Computer Society. http://dx.doi.org/10.1109/ICDE.2015.7113411 (Published)

High Utility Episode Mining Made Practical and Fast, by GUO, Guangming; Zhang, Lei; Liu, Qi; Chen, Enhong; ZHU, Feida; Chu, Guan. (2014). *Advanced Data Mining and Applications: 10th International Conference, ADMA 2014, Guilin, China, December 19-21, 2014: Proceedings,* (pp. 71-84) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-319-14717-8_6 (Published)

User Profiling via Affinity-aware Friendship Network, by CHEN, Zhuohua; ZHU, Feida; GUO, Guangming; LIU, Hongyan. (2014). *Social Informatics: 6th International Conference, SocInfo 2014, Barcelona, Spain, November 11-13, 2014: Proceedings,* (pp. 151-165) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-319-13734-6_11 (Published)

Interestingness-Driven Diffussion Process Summarization in Dynamic Networks, by QU, Qiang; LIU, Siyuan; JENSEN, Christian; ZHU, Feida; FALOUTSOS, Christos. (2014). *Machine Learning and Knowledge Discovery in Databases: European Conference, ECML PKDD 2014, Nancy, France, September 15-19, 2014: Proceedings, Part II,* (pp. 597-613) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-662-44851-9_38 (Published)

CLEar: A real-time online observatory for bursty and viral events, by XIE, Runquan; ZHU, Feida; MA, Hui; XIE, Wei; CHEN, Lin. (2014). *Proceedings of the VLDB Endowment: VLDB 2014, 1-5 September, Hangzhou,* (pp. 1637-1640) Saratoga, CA: VLDB Endowment. https://doi.org/10.14778/2733004.2733049 (Published)

Network mining and analysis for social applications, by ZHU, Feida; SUN, Huan; YAN, Xifeng. (2014). *KDD'14 : proceedings of the 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, August 24-27, 2014, New York, NY, USA,* (pp. 1974-1974) New York, USA: ACM New York, NY, USA

©2014. (Published)

Diversified Social Influence Maximization, by TANG, Fangshuang; LIU, Qi; ZHU, Hengshu; CHEN, Enhong; ZHU, Feida. (2014). *ASONAM 2014: Proceedings of the 2014 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining: 17-20 August 2014, Beijing,* (pp. 455-459) Piscataway, NJ: IEEE. http://dx.doi.org/10.1109/ASONAM.2014.6921625 (Published)

Influences of influential users: An empirical study of music social network, by REN, Jing; CHENG, Zhiyong; SHEN, Jialie; ZHU, Feida. (2014). *ICIMCS 2014: Proceedings of the Sixth International Conference on Internet Multimedia Computing and Service: July 10-12, Xiamen, China,* (pp. 411-416) New York: ACM. https://doi.org/10.1145/2632856.2632907 (Published)

HYDRA: Large-scale Social Identity Linkage via Heterogeneous Behavior Modeling, by LIU, Siyuan; WANG, Shuhui; ZHU, Feida; ZHANG, Jinbo; KRISHNAN, Ramayya. (2014). *SIGMOD '14: Proceedings of the 2014 ACM SIGMOD International Conference on Management of Data: June 22-27, 2014, Snowbird, UT,* (pp. 51-62) New York: ACM. http://dx.doi.org/10.1145/2588555.2588559 (Published)

Online community transition detection, by TAN, Biying; ZHU, Feida; QU, Qiang; LIU, Siyuan. (2014). *Web-Age Information Management: 15th International Conference, WAIM 2014, Macau, China, June 16-18: Proceedings,* (pp. 633-644) Cham: Springer Verlag. https://doi.org/10.1007/978-3-319-08010-9_68 (Published)

An Integrated Model for User Attribute Discovery: A Case Study on Political Affiliation Identification, by GOTTIPATI, Swapna; QIU, Minghui; YANG, Liu; ZHU, Feida; JIANG, Jing. (2014). *Advances in Knowledge Discovery and Data Mining: 18th Pacific-Asia Conference, PAKDD 2014, Tainan, Taiwan, May 13-16, 2014. Proceedings, Part I,* (pp. 434-446) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-319-06608-0_36 (Published)

On Finding the Point where there is No Return: Turning Point Mining on Game Data, by GONG, Wei; LIM, Ee Peng; ZHU, Feida; ACHANANUPARP, Palakorn; LO, David. (2014). *Proceedings of the 2014 SIAM International Conference on Data Mining: April 24-26, Philadelphia, PA,* (pp. 956-964) Philadelphia, PA: SIAM. http://dx.doi.org/10.1137/1.9781611973440.109 (Published)

LASER: A living analytics experimentation system for large-scale online controlled experiments, by LIM, Kwan-Hui; LIM, Ee Peng; Palakorn, Achananuparp; VU, Adrian; Kwee, Agus Trisnajaya; ZHU, Feida. (2014). *WWW '14: Proceedings of the 23rd International Conference on World Wide Web: April 7-11, 2014, Seoul, Korea,* (pp. 71-74) New York: ACM. http://dx.doi.org/10.1145/2567948.2577008 (Published)

Who am I on Twitter? A Cross-Country Comparison, by DONG, Wei; QIU, Minghui; ZHU, Feida. (2014). *WWW '14: Proceedings of the 23rd International Conference on World Wide Web: April 7-11, 2014, Seoul, Korea,* (pp. 253-254) Geneva: International World Wide Web Conferences Steering Committee. http://dx.doi.org/10.1145/2567948.2577355 (Published)

TopicSketch: Real-time bursty topic detection from Twitter, by XIE, Wei; ZHU, Feida; JIANG, Jing; LIM, Ee Peng; WANG, Ke. (2013). *IEEE 13th International Conference on Data Mining ICDM 2013: 7-10 Dec 2013, Dallas, Texas: Proceedings,* (pp. 837-846) Piscataway, NJ: IEEE. http://doi.org/10.1109/ICDM.2013.86 (Published)

Predicting User's Political Party using Ideological Stances, by GOTTIPATI, Swapna; QIU, Minghui; YANG, Liu; ZHU, Feida; JIANG, Jing. (2013). *Social Informatics: 5th International Conference, SocInfo 2013, Kyoto, Japan, November 25-27, 2013: Proceedings,* (pp. 177-191) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-319-03260-3_16 (Published)

Information vs Interaction: An Alternative User Ranking Model for Social Networks, by XIE, Wei; HOANG, Ai Phuong; ZHU, Feida; LIM, Ee Peng. (2013). *Social Informatics: 5th International Conference, SocInfo 2013, Kyoto, Japan, November 25-27, 2013: Proceedings,* (pp. 227-240) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-319-03260-3_20 (Published)

Social listening for customer acquisition, by DU, Juan; TAN, Biying; ZHU, Feida; LIM, Ee-Peng. (2013). *Social informatics: 5th international conference, SocInfo 2013, Kyoto, Japan, November 25-27: Proceedings,* (pp. 75-80) Cham: Springer Verlag. https://doi.org/10.1007/978-3-319-03260-3_7 (Published)

Predicting Best Answerers for New Questions: An Approach Leveraging Topic Modeling and Collaborative Voting, by TIAN, Yuan; Kochhar, Pavneet Singh; LIM, Ee Peng; ZHU, Feida; LO, David. (2014). *Social Informatics: SocInfo 2013 International Workshops, QMC and HISTOINFORMATICS: Kyoto, Japan, November 25, 2013, Revised selected papers,* (pp. 55-68) Cham: Springer Verlag.

http://dx.doi.org/10.1007/978-3-642-55285-4_5 (Published)

CQARank: Jointly model topics and expertise in Community Question Answering, by YANG, Liu; QIU, Minghui; GOTTIPATI, Swapna; ZHU, Feida; JIANG, Jing; SUN, Huiping; CHEN, Zhong. (2013). *CIKM '13: Proceedings of the 22nd ACM International Conference on Information and Knowledge Management: San Francisco, CA, October 27- November 1,* (pp. 99-108) New York: ACM. https://doi.org/10.1145/2505515.2505720 (Published)

DelayFlow centrality for identifying critical nodes in transportation networks, by CHENG, Yew-Yih; LEE, Roy Ka-Wei; LIM, Ee-Peng; ZHU, Feida. (2013). *ASONAM '13: Proceedings of the 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining: Niagara Falls, Canada, August 25-28, 2013,* (pp. 1462-1463) New York: ACM. http://doi.org/10.1145/2492517.2492595 (Published)

FloTra: Flower-shape trajectory mining for instance-specific parameter tuning, by Lindawati; ZHU, Feida; LAU, Hoong Chuin. (2013). *MIC 2013: The X Metaheuristics International Conference,* Singapore: (Published)

Reviving Dormant Ties in an Online Social Network Experiment, by LIM, Ee Peng; CORREA, Denzil; LO, David; FINEGOLD, Michael; ZHU, Feida. (2013). *Proceedings of the Seventh International AAAI Conference on Weblogs and Social Media, ICWSW-13, Cambridge, MA, July 8-11, 2013,* (pp. 361-369) Palo Alto, CA: AAAI Press. (Published)

Real time event detection in Twitter, by WANG, Xun; ZHU, Feida; JIANG, Jing; LI, Sujian. (2013). *Web-age information management: 14th International Conference, WAIM 2013, Beidaihe, China, June 14-16: Proceedings,* (pp. 502-513) Berlin: Springer Verlag. https://doi.org/10.1007/978-3-642-38562-9_51 (Published)

A Direct Mining Approach To Efficient Constrained Graph Pattern Discovery, by ZHU, Feida; ZHANG, Zequn; QU, Qiang. (2013). *SIGMOD '13 Proceedings of the 2013 ACM SIGMOD International Conference on Management of Data,* (pp. 821-832) New York City, NY, USA: ACM. http://dx.doi.org/10.1145/2463676.2463723 (Published)

It is not just what we say, but how we say them: LDA-based behavior-topic model, by QIU, Minghui; ZHU, Feida; JIANG, Jing. (2013). *Proceedings of the 2013 SIAM International Conference on Data Mining: Philadelphia, PA, May 2-4,* (pp. 794-802) Philadelphia, PA: SIAM. https://doi.org/10.1137/1.9781611972832.88 (Published)

Impact of Multimedia in Sina Weibo: Popularity and Life Span, by ZHAO, Xun; ZHU, Feida; QIAN, Weining; ZHOU, Aoying. (2013). *Semantic Web and Web Science,* (pp. 55-65) New York, NY, USA: Springer. (Published)

Dynamic Label Propagation in Social Networks, by DU, Juan; ZHU, Feida; LIM, Ee Peng. (2013). *Database Systems for Advanced Applications: 18th International Conference, DASFAA 2013, Wuhan, China, April 22-25, 2013. Proceedings, Part II,* (pp. 194-209) Cham: Springer Verlag. http://dx.doi.org/10.1007/978-3-642-37450-0_14 (Published)

TwiCube: A Real-time Twitter Online Community Analysis Tool, by DU, Juan; XIE, Wei; LI, Cheng; ZHU, Feida; LIM, Ee Peng. (2013). *Database Systems for Advanced Applications: 18th International Conference, DASFAA 2013, Wuhan, China, April 22-25, 2013. Proceedings, Part II,* (pp. 458-462) Berlin Heidelberg: Springer Verlag. http://dx.doi.org/10.1007/978-3-642-37450-0_36 (Published)

Automated parameter tuning framework for heterogeneous and large instances: Case study in quadratic assignment problem, by LINDAWATI, Linda; YUAN, Zhi; LAU, Hoong Chuin; ZHU, Feida. (2013). *Learning and Intelligent Optimization: Proceedings of the 7th International Conference on Learning and Optimization, LION 7, January 7-11, 2013,* (pp. 423-437) Cham: Springer Verlag. http://doi.org/10.1007/978-3-642-44973-4_45 (Published)

Detecting anomalies in bipartite graphs with mutual dependency principles, by DAI, Hanbo; ZHU, Feida; LIM, Ee Peng; PANG, Hwee Hwa. (2012). *2012 IEEE 12th International Conference on Data Mining: ICDM 2012: Brussels, Belgium, 10-13 December,* (pp. 171-180) Los Alamitos, CA: IEEE Computer Society. https://doi.ieeecomputersociety.org/10.1109/ICDM.2012.167 (Published)

On recommending hashtags in Twitter networks, by KYWE, Su Mon; HOANG, Tuan-Anh; LIM, Ee Peng; ZHU, Feida. (2012). *Social Informatics: 4th International Conference, SocInfo 2012, Lausanne, Switzerland, December 5-7, 2012: Proceedings,* (pp. 337-350) Cham: Springer Verlag. https://doi.org/10.1007/978-3-642-35386-4_25 (Published)

A survey of recommender systems in Twitter, by KYWE, Su Mon; LIM, Ee Peng; ZHU, Feida. (2012). *Social Informatics: 4th International Conference, SocInfo 2012, Lausanne, Switzerland, December 5-7, 2012: Proceedings,* (pp. 420-433) Cham: Springer Verlag. https://doi.org/10.1007/978-3-642-35386-4_31 (Published)

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On modeling virality of Twitter content, by HOANG, Tuan Anh; LIM, Ee Peng; ACHANANUPARP, Palakorn; JIANG, Jing; ZHU, Feida. (2011). *Digital Libraries: 13th International Conference on Asia-Pacific Digital Libraries, ICADL 2011, Beijing, China, October 24-27: Proceedings,* (pp. 212-221) Heidelberg: Springer Verlag. https://doi.org/10.1007/978-3-642-24826-9_27 (Published)

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gPrune: A constraint pushing framework for graph pattern mining, by ZHU, Feida; YAN, Xifeng; HAN, Jiawei; YU, Philip S.. (2007). *Advances in knowledge discovery and data mining: 11th Pacific-Asia Conference, PAKDD 2007, Nanjing, China, May 22-25: Proceedings,* (pp. 388-400) Heidelberg: Springer Verlag. https://doi.org/10.1007/978-3-540-71701-0_38 (Published)

Mining colossal frequent patterns by core pattern fusion, by ZHU, Feida; YAN, Xifeng; HAN, Jiawei; YU, Philip S.; CHENG, Hong. (2007). *IEEE 23rd International Conference on Data Engineering 2007: 15 - 20 April, Istanbul, Turkey: Proceedings,* (pp. 706-715) Los Alamitos, CA: IEEE Computer Society. https://doi.ieeecomputersociety.org/10.1109/ICDE.2007.367916 (Published)

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Other Outputs and Contributions

Data Set

Starcraft II in-game action lists [Data set], by GONG, Wei; LIM, Ee Peng; ACHANANUPARP, Palakorn; ZHU, Feida; LO, David; CHUA, Freddy. (2012, June 29). (Published)

Research Grants

Singapore Management University

Network Linkage, DSO National Laboratories , PI (Project Level): LIM Ee Peng , Co-PI (Project Level): ZHU Feida, 2017, S$579,150

Pinnacle Lab (Extension), Ping An Technology (Shenzhen) Co. Ltd , PI (Project Level): ZHU Feida, 2017, S$225,600

DBS SMU Joint Lab for Life Analytics, DBS , PI (Project Level): ZHU Feida, 2015, S$859,676.25

China Ping An-SMU Joint Research Lab (Pinnacle Lab), Ping An Technology (Shenzhen) Co. Ltd , PI (Project Level): ZHU Feida, 2015, S$369,879.19

Ping An – SMU Joint Research Lab Phase 1A, Ping An – SMU Joint Research Lab Phase 1A, Ping An Technology (Shenzhen) Co. Ltd , PI (Project Level): ZHU Feida, 2014, S$350,000

Ping An - SMU Research Lab (consists of 3 sub projects), Ping An - SMU Research Lab, Ping An

Technology (Shenzhen) Co. Ltd , PI (Project Level): ZHU Feida, 2013, S$800,000

TEACHING

Teaching Areas

Data Science, especially for business, financial and social applications; Data Mining and Machine Learning; Social Network Mining and Analysis; Algorithms

Courses Taught

<u>Singapore Management University</u>

Undergraduate Programmes :

    Computer as an Analysis Tool

    Data Mining and Business Analytics

Postgraduate Professional Programmes :

    Project – Analytics

Postgraduate Research Programmes :

    Advanced Topics in Network Mining

    Empirical Research Project 1

    Empirical Research Project 2

    Empirical Research Project 3

    Empirical Research Project 4

    Network Analysis and Mining