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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 Computing and Information Systems, SMU, Jan 2018 - Present

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

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

Academic Administrative Positions

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

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

Awards and Honors

Early Career Award, the 23rd Pacific-Asia Conference on Knowledge Discovery and Data Mining, 2019

Best Student Paper Award, The 22nd International Conference on Database Systems for Advanced Applications (DASFAA'17), The 22nd International Conference on Database Systems for Advanced Applications (DASFAA'17), 2017

Lee Kong Chian Fellow, Singapore Management University, 2016

Best Paper Award, The 21th International Conference on Database Systems for Advanced Applications (DASFAA'16), 2016

Best Demo Paper Award, The 17th International conference on Web-Age Information Management (WAIM'16), 2016

DS LEE Foundation Fellowship, Singapore Management University, 2015

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

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

RESEARCH

Research Interests

Data mining with emphasis on network and social data mining, machine learning, blockchain, data asset and governance, with emphasis on their application to business, financial and consumer innovation

Publications

Journal Articles [Refereed]

Maximum a posteriori estimation for information source detection, by CHANG, Biao; CHEN, Enhong; ZHU, Feida; LIU, Qi; XU, Tong; WANG, Zhefeng. (2020). *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 50 (6), 2242-2256. <https://doi.org/10.1109/TSMC.2018.2811410> (Published)

Towards k-vertex connected component discovery from large networks, by LI, Yuan; WANG, Guoren; ZHAO, Yuhai; ZHU, Feida; WU, Yubao. (2020). *World Wide Web*, 23 (2), 799-830. <https://doi.org/10.1007/s11280-019-00725-6> (Published)

Who should be invited to my party: A size-constrained k-core problem in social networks, by MA, Yu-Liang; YUAN, Ye; ZHU, Feida; WANG, Guo-Ren; XIAO, Jing; WANG, Jian-Zong. (2019). *Journal of Computer Science and Technology*, 34 (1), 170-184. <https://doi.org/10.1007/s11390-019-1905-0> (Published)

PCCF: Periodic and continual temporal co-factorization for recommender systems, by GUO, Guibing; ZHU, Feida; QU, Shilin; WANG, Xingwei. (2018). *Information Sciences*, 436-437 56-73. <https://doi.org/10.1016/j.ins.2018.01.019> (Published)

Social network monitoring for bursty cascade detection, by XIE, Wei; ZHU, Feida; XIAO, Jing; WANG, Jianzong. (2018). *ACM Transactions on Knowledge Discovery from Data*, 12 (4), 40:1-24. <https://doi.org/10.1145/3178048> (Published)

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

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. <https://doi.org/10.1016/j.knosys.2017.01.027> (Published)

Discovering burst patterns of burst topic in Twitter, by DONG, Guozhong; YANG, Wu; ZHU, Feida; WANG, Wei. (2017). *Computers and Electrical Engineering*, 58 551-559. <https://doi.org/10.1016/j.compeleceng.2016.06.012> (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), 1-38. <https://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. <https://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*, 28 (7), 1764-1778. <https://doi.org/10.1109/TKDE.2016.2539166> (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. <https://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. (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)

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

Retrofitting embeddings for unsupervised user identity linkage, by ZHOU, Tao; LIM, Ee-Peng; LEE, Roy Ka-Wei; ZHU, Feida; CAO, Jiuxin. (2020). *PAKDD2020: The 24th Pacific-Asia Conference on Knowledge Discovery and Data Mining, 11-14 May 2020*, (pp. 385-397) Online: Springer.

https://doi.org/10.1007/978-3-030-47426-3_30 (Published)

Predictive task assignment in spatial crowdsourcing: A data-driven approach, by ZHAO, Yan; ZHENG, Kai; CUI, Yue; SU, Han; ZHU, Feida; ZHOU, Xiaofang. (2020). *Proceedings of 36th IEEE International Conference on Data Engineering, ICDE 2020, Dallas, Texas; April 20-24, 2020*, (pp. 13-24) Washington, DC: IEEE. (Published)

AD-Link: An adaptive approach for user identity linkage, by MU, Xin; XIE, Wei; LEE, Roy Ka-Wei; ZHU, Feida; LIM, Ee-Peng. (2019). *2019 IEEE International Conference on Big Knowledge 9th ICBK: Beijing, November 10-11: Proceedings*, (pp. 183-190) Piscataway, NJ: IEEE. <https://doi.org/10.1109/ICBK.2019.00032> (Published)

Emotion-aware chat machine: Automatic emotional response generation for human-like emotional interaction, by WEI, Wei; LIU, Jiayi; MAO, Xianling; GUO, Guibing; ZHU, Feida; ZHOU, Pan; HU, Yuchong. (2019). *Proceedings of the 28th ACM International Conference on Information and Knowledge Management, Beijing, China, 2019 November 3-7*, (pp. 1404-1410) Beijing, China: ACM. <https://doi.org/10.1145/3357384.3357937> (Published)

Supervised generative adversarial cross-modal hashing by transferring pairwise similarities for venue discovery, by AGGARWAL, Himanshu; SHAH, Rajiv Ratn; TANG, Suhua; ZHU, Feida. (2019). *Proceedings of the 2019 IEEE 5th International Conference on Multimedia Big Data (BigMM)*, Singapore: IEEE. <https://doi.org/10.1109/BigMM.2019.000-2> (Published)

Dynamic student classification on memory networks for knowledge tracing, by MINN, Sein; DESMARAIS, Michel C.; ZHU, Feida; XIAO, Jing; WANG, Jianzong. (2019). *Advances in Knowledge Discovery and Data Mining: PAKDD 2019: April 14-17, Macau: Proceedings*, (pp. 163-174) Cham: Springer. https://doi.org/10.1007/978-3-030-16145-3_13 (Published)

Unsupervised user identity linkage via factoid embedding, by XIE, Wei; MU, Xin; LEE, Roy Ka-Wei; ZHU, Feida; LIM, Ee Peng. (2018). *2018 IEEE International Conference on Data Mining (ICDM 2018), Singapore, November 17-20: Proceedings*, (pp. 1338-1343) Los Alamitos, CA: IEEE Computer Society. <https://doi.org/10.1109/ICDM.2018.00182> (Published)

Offline versus online: A meaningful categorization of ties for retweets, by NATALI, Felicia; ZHU, Feida. (2018). *Social Informatics: 10th International Conference, SocInfo 2018, St. Petersburg, Russia, September 25-28: Proceedings*, (pp. 386-402) Cham: Springer. https://doi.org/10.1007/978-3-030-01129-1_24 (Published)

Social stream classification with emerging new labels, by MU, Xin; ZHU, Feida; LIU, Yue; LIM, Ee-Peng; ZHOU, Zhi-Hua. (2018). *Advances in knowledge discovery and data mining: 22nd Pacific-Asia Conference, PAKDD 2018, Melbourne, Australia, June 3-6, 2018: Proceedings*, (pp. 16-28) Cham: Springer. https://doi.org/10.1007/978-3-319-93034-3_2 (Published)

The role of different tie strength in disseminating different topics on a microblog, by NATALI, Felicia; CARLEY, Kathleen M.; ZHU, Feida; HUANG, Binxuan. (2017). *ASONAM '17: Proceedings of the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Sydney, Australia, July 31 - August 3*, (pp. 203-207) New York: ACM. <https://doi.org/10.1145/3110025.3110130> (Published)

Effective k-vertex connected component detection in large-scale networks, by LI, Yuan; ZHAO, Yuha; WANG, Wang; ZHU, Feida; WU, Yubao; SHI, Shenglei. (2017). *Database Systems for Advanced Applications: 22nd International Conference, DASFAA 2017, Suzhou, China, March 27-30: Proceedings*, (pp. 404-421) Cham: Springer. https://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). *Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17): San Francisco, CA, February 4-9*, (pp. 2373-2379) Menlo Park, CA: AAAI Press. (Published)

Efficient community maintenance for dynamic social networks, by QIN, Hongchao; YUAN, Ye; ZHU, Feida; WANG, Guoren. (2016). *Web technologies and applications: 18th Asia-Pacific Web Conference, APWeb 2016, Suzhou, China, September 23-25: Proceedings*, (pp. 478-482) Cham: Springer. https://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, September 23-25*, (pp. 245-255) Cham: Springer. https://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, August 13-17*, (pp. 1775-1784) New York: ACM. <https://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). *Proceedings of the Tenth International AAI Conference on Web and Social Media ICWSM 2016: Cologne, Germany, May 17-20*, (pp. 141-150) Palo Alto, CA: AAI. (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)

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)

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, April 16-19: Proceedings*, (pp. 3-17) Cham: Springer. https://doi.org/10.1007/978-3-319-32049-6_1 (Published)

A comparison of fundamental network formation principles between offline and online friends on Twitter, by NATALI, Felicia; ZHU, Feida. (2016). *Advances in network science: 12th International Conference and School, NetSci-X 2016, Wroclaw, Poland, January 11-13, Proceedings*, (pp. 169-177) Cham: Springer Verlag. https://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). *Proceedings of the 2016 Hawaii International Conference on System Sciences, Kauai, January 5-9*, (pp. 736-745) Los Alamitos, CA: IEEE Computer Society. <https://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://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://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 AAI Conference on Web and Social Media: May 26-29, 2015, Oxford*, (pp. 140-149) Palo Alto, CA: AAI 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 Diffusion 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. 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. <https://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. <https://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)

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://doi.org/10.1007/978-3-319-03260-3_20 (Published)

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- Efficient discovery of frequent approximate sequential patterns, by ZHU, Feida; YAN, Xifeng; Han, Jiawei; YU, Philip S.. (2007). *IEEE 7th International Conference on Data Mining Seventh: ICDM 2007: October 28-31, Omaha, Nebraska: Proceedings*, (pp. 751-756) Los Alamitos, CA: IEEE Computer Society. <https://doi.ieeecomputersociety.org/10.1109/ICDM.2007.75> (Published)
- 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*

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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)

Searching substructures with superimposed distance, by YAN, Xifeng; ZHU, Feida; HAN, Jiawei; YU, Philip S.. (2006). *ICDE '06: Proceedings of the 22nd International Conference on Data Engineering: April 3-7, Atlanta, Georgia*, (pp. 88-97) Los Alamitos, CA: IEEE Computer Society. <https://doi.ieeecomputersociety.org/10.1109/ICDE.2006.136> (Published)

Conference Papers

Improving knowledge tracing model by integrating problem difficulty, by MINN, Sein; ZHU, Feida; DESMARAIS, Michel C.. (2018). *18th IEEE International Conference on Data Mining Workshops, ICDMW 2018, Singapore, November 17-20*, Singapore. <https://doi.org/10.1109/ICDMW.2018.00220> (Published)

Other Outputs and Contributions

Data Sets

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

An end-to-end Adaptive AI-Assisted 3H Care (A3C) system, AI Singapore Grand Challenge, AI Singapore , Co-PI (Project Level): ZHU Feida, 2019, S\$4,609,920

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

Financial Education, Credit Expansion, and Personal Welfare: A Field Experiment in Indonesia, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): HU Jianfeng , Co-PI (Project Level): ZHU Feida, 2019, S\$200,000

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

Singapore Management University

Undergraduate Programmes :

Computer as an Analysis Tool

Postgraduate Professional Programmes :

Blockchain and the New Economies

Capstone Project - Data Science and Engineering

Empirical Research Project 1

Empirical Research Project 2

Empirical Research Project 3

Network Analysis and Mining

Python for Data Science

THESES AND DISSERTATIONS

Theses and Dissertations Supervised

Singapore Management University

Supervisor, "Exploring Offline Friendships on the Social Information Network: Network Characteristics, Information Diffusion, and Tie Strength", Dissertation by FELICIA NATALI, PhD in Information Systems, Singapore Management University, 2018

Supervisor, "Real-Time Bursty Topics Detection and Virality Forecasting in Microblogs", Dissertation by XIE WEI, PhD in Information Systems, Singapore Management University, 2017

Theses and Dissertations Assessed

Singapore Management University

Committee Member, "Profiling Social Media Users with Selective Self-disclosure Behaviour", Dissertation by GONG WEI, PhD in Information Systems, Singapore Management University, 2016

Committee Member, "Personalised and Context-aware Music Retrieval and Recommendation", Dissertation by CHENG ZHIYONG, PhD in Information Systems, Singapore Management University, 2016

Committee Member, "Mining User Viewpoints in Online Discussions", Dissertation by QIU MINGHUI, PhD in Information Systems, Singapore Management University, 2015

Committee Member, "Multimodal Code Search", Dissertation by WANG SHAOWEI, PhD in Information Systems, Singapore Management University, 2015

Committee Member, "Ranking-based Approaches for Localizing Faults", Dissertation by LUCIA, PhD in Information Systems, Singapore Management University, 2014

Committee Member, "Opinion Mining of Sociopolitical Comments from Social Media", Dissertation by GOTTIPATI SWAPNA, PhD in Information Systems, Singapore Management University, 2014

Committee Member, "Generic Instance-specific Automated Parameter Tuning Framework", Dissertation by LINDAWATI, PhD in Information Systems, Singapore Management University, 2014

Committee Member, "Anomaly Detection on Social Data", Dissertation by DAI HANBO, PhD in Information Systems, Singapore Management University, 2013

EXTERNAL SERVICE PROFESSIONAL

Conference Chair, General Chair, 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2021

Conference Chair, General Chair, 18th IEEE International Conference on Data Mining (ICDM'18), 2018