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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 Computer Science, School of Computing and Information Systems, SMU, Apr 2021 - Present

Associate Professor of Information Systems, School of Computing and Information Systems, SMU, Jan 2018 - Mar 2021

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

Associate Dean, Partnerships and Engagement, School of Computing and Information Systems, SMU, Apr 2023 - Present

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]

From asset flow to status, action and intention discovery: Early malice detection in cryptocurrency, by CHENG, Ling; ZHU, Feida; WANG, Yong; LIANG, Ruicheng; LIU, Huiwen. (2023). *ACM Transactions on Knowledge Discovery from Data*, 18 (3), (Published)

Interoperability in blockchain: A survey, by REN, Kunpeng; HO, Nhut-Minh; LOGHIN, Dumitrel; NGUYEN, Thanh-Toan; OOI, Beng Chin; TA, Quang-Trung; ZHU, Feida. (2023). *IEEE Transactions on Knowledge and Data Engineering*, 35 (12), 12750-12769. <https://doi.org/10.1109/TKDE.2023.3275220> (Published)

Data provenance via differential auditing, by MU, Xin; PANG, Ming; ZHU, Feida. (2023). *IEEE Transactions on Knowledge and Data Engineering*, 1-12. <https://doi.org/10.1109/TKDE.2023.3334821> (Advance Online)

Heterogeneous graph neural network with multi-view representation learning, by SHAO, Zezhi; XU, Yongjun; WEI, Wei; WANG, Fei; ZHANG, Zhao; ZHU, Feida. (2023). *IEEE Transactions on Knowledge and Data Engineering*, 35 (11), 11476-11488. (Published)

Data pricing in machine learning pipelines, by CONG, Zicun; LUO, Xuan; PEI, Jian; ZHU, Feida; ZHANG, Yong. (2022). *Knowledge and Information Systems*, 64 (6), 1417-1455. (Published)

Target-guided Emotion-aware Chat Machine, by WEI, Wei; LIU, Jiayi; MAO, Xianling; GUO, Guibing; ZHU, Feida; ZHOU, Pan; HU, Yuchong; FENG, Shanshan. (2021). *ACM Transactions on Information Systems*, 39 (4), 1-24. (Published)

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)

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)

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

Time-aware conversion prediction, by JI, Wendi; WANG, Xiaoling; ZHU, Feida. (2017). *Frontiers of Computer Science*, 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. <https://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

Toward intention discovery for early malice detection in cryptocurrency, by CHENG, Ling; ZHU, Feida; WANG, Yong; LIANG, Ruicheng; LIU, Huiwen. (2023.0). *Proceedings of the 2023 IEEE International Conference on Systems, Man, and Cybernetics, Hawaii, USA, October 1-4*, New Jersey: IEEE. <https://doi.org/10.48550/arXiv.2209.12001> (Published)

Evolve Path Tracer: Early detection of malicious addresses in cryptocurrency, by CHENG, Ling; ZHU, Feida; WANG, Yong; LIANG, Ruicheng; LIU, Huiwen. (2023.0). *KDD '23: Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Long Beach, CA, August 6-10*, (pp. 3889-3900) New York: ACM. <https://doi.org/10.1145/3580305.3599817> (Published)

Evolve path tracer: Early detection of malicious addresses in cryptocurrency, by CHENG, Ling; ZHU, Feida; WANG, Yong; LIANG, Ruicheng; LIU, Huiwen. (2023.0). *Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 23)*, Long Beach: (Published)

Multi-view hypergraph contrastive policy learning for conversational recommendation, by ZHAO, Sen; WEI, Wei; MAO, Xian-Ling; ZHU, Shuai; YANG, Minghui; WEN, Zujie; CHEN, Dangyang; ZHU, Feida . (2023.0). *Proceedings of the 46th International ACM SIGIR Conference on Research and Development in Information Retrieval, Taiwan, July 23-27*, (pp. 654-664) New York, USA: ACM. (Published)

NFTDisk: Visual detection of wash trading in NFT markets, by WEN, Xiaolin; WANG, Yong; YUE, Xuanwu; ZHU, Feida; ZHU, Min. (2023.0). *Proceedings of the 2023 ACM CHI Conference on Human Factors in Computing Systems, Hamburg, Germany, April 23-28*, New York: ACM. <https://doi.org/10.1145/3544548.3581466> (Published)

Code will tell: Visual identification of Ponzi schemes on Ethereum, by WEN, Xiaolin; YEO, Kim Siang; WANG, Yong; CHENG, Ling; ZHU, Feida; ZHU, Min. (2023.0). *CHI '23 Extended Abstract Proceedings, Hamburg, Germany, 2023 April 23-28*, (pp. 1-6) <https://doi.org/10.1145/3544549.3585861>; CHI EA '23: Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems. <https://doi.org/10.1145/3544549.3585861> (Published)

Improving knowledge-aware recommendation with multi-level interactive contrastive learning, by ZOU, Ding; WEI, Wei; WANG, Ziyang; MAO, Xian-Ling; ZHU, Feida; FANG, Rui; CHEN, Dangyang. (2022.0). *Proceedings of the 31st International Conference on Information and Knowledge Management, Atlanta, United States, 2022 October 17-21*, (pp. 2817-2826) New York: ACM. <https://doi.org/10.1145/3511808.3557358> (Published)

Declaration-based prompt tuning for visual question answering, by LIU, Yuhang; WEI, Wei; PENG, Daowan; ZHU, Feida . (2022.0). *Proceedings of the 2022 International Joint Conference on Artificial Intelligence*,

Vienna, Austria, July 23-29, (pp. 3264-3270) California: International Joint Conferences on Artificial Intelligence. <https://doi.org/10.24963/ijcai.2022/453> (Published)

Automatic noisy label correction for fine-grained entity typing, by PAN, Weiran; WEI, Wei, ZHU, Feida. (2022.0). *Proceedings of the 31st International Joint Conference on Artificial Intelligence, Vienna, Austria, 2022 July 23-29*, (pp. 4317-4323) California: International Joint Conferences on Artificial Intelligence. <https://doi.org/10.24963/ijcai.2022/599> (Published)

Multi-level cross-view contrastive learning for knowledge-aware recommender system, by ZOU, Ding; WEI, Wei; MAO, Xian-Ling; WANG, Ziyang; QIU, Minghui; ZHU, Feida; CAO, Xin. (2022.0). *Proceedings of The 45th International ACM SIGIR Conference on Research and Development in Information Retrieval, Madrid, Spain, 2022 July 11-15*, (pp. 1358-1368) New York: ACM. <https://doi.org/10.1145/3477495.3532025> (Published)

Multi-level cross-view contrastive learning for knowledge-aware recommender system, by ZOU, Ding; WEI, Wei; MAO, Xian-Ling; WANG, Ziyang; QIU, Minghui; ZHU, Feida; CAO, Xin. (2022.0). *SIGIR '22: Proceedings of the 45th ACM SIGIR Conference on Research and Development in Information Retrieval, Madrid, July 11-15*, (pp. 1358-1368) New York: ACM. <https://doi.org/10.1145/3477495.3532025> (Published)

Interpretable knowledge tracing: Simple and efficient student modeling with causal relations, by MINN, Sein; VIE, Jill-Jênn; TAKEUCHI, Koh; KASHIMA, ZHU, Feida. (2022.0). *Proceedings of the 36th AAAI Conference on Artificial Intelligence, AAAI 2022, February 22 - March 1*, (pp. 12810-12818) Washington, DC, USA: AAAI Press. (Published)

Data pricing and data asset governance in the AI Era, by PEI, Jian; ZHU, Feida; CONG, Zicun; XUAN, Luo; HUIWEN, Liu; MU, Xin. (2021.0). *Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, August 14-18*, (pp. 4058-4059) KDD '21: Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery & Data Mining: (Published)

Retrofitting embeddings for unsupervised user identity linkage, by ZHOU, Tao; LIM, Ee-Peng; LEE, Roy Ka-Wei; ZHU, Feida; CAO, Jiuxin. (2020.0). *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. (2020.0). *2020 36th IEEE International Conference on Data Engineering (ICDE): Dallas, Texas; April 20-24: Proceedings*, (pp. 13-24) Los Alamitos, CA: IEEE Computer Society. <https://doi.org/10.1109/ICDE48307.2020.00009> (Published)

AD-Link: An adaptive approach for user identity linkage, by MU, Xin; XIE, Wei; LEE, Roy Ka-Wei; ZHU, Feida; LIM, Ee-Peng. (2019.0). *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. (2019.0). *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. (2019.0). *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. (2019.0). *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)

Improving knowledge tracing model by integrating problem difficulty, by MINN, Sein; ZHU, Feida; DESMARAIS, Michel C.. (2018.0). *2018 IEEE International Conference on Data Mining Workshops 18th ICDMW: Singapore, November 17-20: Proceedings*, (pp. 1505-1506) Los Alamitos, CA: IEEE Computer Society. <https://doi.org/10.1109/ICDMW.2018.00220> (Published)

Unsupervised user identity linkage via factoid embedding, by XIE, Wei; MU, Xin; LEE, Roy Ka-Wei; ZHU, Feida; LIM, Ee Peng. (2018.0). *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. (2018.0). *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. (2018.0). *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. (2017.0). *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. (2017.0). *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. (2017.0). *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)

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. (2016.0). *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)

Efficient community maintenance for dynamic social networks, by QIN, Hongchao; YUAN, Ye; ZHU, Feida; WANG, Guoren. (2016.0). *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)

Detecting community pacemakers of burst topic in Twitter, by DONG, Guozhong; YANG, Wu; ZHU, Feida; WANG, Wei. (2016.0). *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. (2016.0). *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. (2016.0). *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)

Mining social ties beyond homophily, by LIANG, Hongwei; WANG, Ke; ZHU, Feida. (2016.0). *IEEE 32nd International Conference on Data Engineering (ICDE) 2016: May 16-20, 2016, Helsinki, Finland: Proceedings*, Piscataway, NJ: IEEE. (Published)

On unravelling opinions of issue specific-silent users in social media, by GONG, Wei; LIM, Ee Peng; ZHU, Feida; CHER, Pei Hua. (2016.0). *Proceedings of the Tenth International AAAI Conference on Web and Social Media ICWSM 2016: Cologne, Germany, May 17-20*, (pp. 141-150) Palo Alto, CA: AAAI. (Published)

When peculiarity makes a difference: Object characterisation in heterogeneous information networks, by CHEN, Wei; ZHU, Feida; ZHAO, Lei; ZHOU, Xiaofang. (2016.0). *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)

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. (2016.0). *20th Pacific-Asia Conference, PAKDD 2016, Auckland, New Zealand, April 19-22, 2016, Proceedings, Part II*, (pp. 130-142) Cham: Springer. https://doi.org/10.1007/978-3-319-31750-2_11 (Published)

A comparison of fundamental network formation principles between offline and online friends on Twitter, by NATALI, Felicia; ZHU, Feida. (2016.0). *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. (2016.0). *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.. (2015.0). *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. (2016.0). *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. (2015.0). *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)

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On recommending hashtags in Twitter networks, by KYWE, Su Mon; HOANG, Tuan-Anh; LIM, Ee Peng; ZHU, Feida. (2012.0). *Social Informatics: 4th International Conference, SocInfo 2012, Lausanne, Switzerland, December 5-7: Proceedings*, (pp. 337-350) Cham: Springer.
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Mining top-K large structural patterns in a massive network, by ZHU, Feida; QU, Qiang; LO, David; YAN, Xifeng; HAN, Jiawei; YU, Philip S.. (2011.0). *Proceedings of VLDB Endowment: 37th VLDB 2011, August 29 - September 3, Seattle*, (pp. 807-818) Saratoga, CA: VLDB Endowment. (Published)

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Efficient Topological OLAP on Information Networks, by QU, Qiang; ZHU, Feida; YAN, Xifeng; HAN, Jiawei; YU, Philip; LI, Hongyan. (2011.0). *Database Systems for Advanced Applications: 16th International*

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Efficient discovery of frequent approximate sequential patterns, by ZHU, Feida; YAN, Xifeng; Han, Jiawei; YU, Philip S.. (2007.0). *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)

gApprox: Mining frequent approximate patterns from a massive network, by CHEN, Chen; YAN, Xifeng; ZHU, Feida; HAN, Jiawei. (2007.0). *IEEE International Conference on Data Mining: ICDM 2007: 28 - 31 October, Omaha, Nebraska: Proceedings*, (pp. 445-450) Los Alamitos, CA: IEEE Computer Society. <https://doi.ieeecomputersociety.org/10.1109/ICDM.2007.36> (Published)

gPrune: A constraint pushing framework for graph pattern mining, by ZHU, Feida; YAN, Xifeng; HAN, Jiawei; YU, Philip S.. (2007.0). *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. (2007.0). *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.. (2006.0). *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)

Working Papers

Toward intention discovery for early malice detection in bitcoin, by CHENG, Ling; ZHU, Feida; WANG, Yong; LIU, Huiwen. (2022). arXiv. <https://doi.org/10.48550/arXiv.2209.12001> (Published)

On decentralization of bitcoin: An asset perspective, by CHENG, Ling; ZHU, Feida; LIU, Huiwen; MIAO, Chunyan. (2021). arXiv. <https://doi.org/10.48550/arXiv.2105.07646> (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

Web 3 Security, Slowmist Pte Ltd , PI (Project Level): ZHU Feida, 2023, S\$308,139

Tokenized Economy and Collaborative Intelligence for Web 3 Media Industry, Zeasn Technology Pte Ltd , PI (Project Level): ZHU Feida, 2023, S\$317,713.5

TradeMaster: Reinforcement Learning-based Quantitative Trading Toolkit, Smart Systems Strategic Research Programme, Industry Alignment Fund (Pre-Positioning) (IAF-PP) Funding Initiative, Info-communications Media Development Authority of Singapore (IMDA) , Co-PI (Project Level): ZHU Feida, 2022, S\$304,800

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

A Decentralized Approach Towards Trustworthy Federated Edge Learning System, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): ZHU Feida, 2023, S\$150,000

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 :

AI Governance

Computer as an Analysis Tool

Postgraduate Professional Programmes :

Blockchain and Governance
 Blockchain and the New Economies
 Capstone Project - Data Science and Engineering
 Data Science for Business
 Project
 Python for Data Science

Postgraduate Research Programmes :

Empirical Research Project 1
 Empirical Research Project 2
 Empirical Research Project 3
 Empirical Research Project 4
 Network Analysis and Mining

THESES AND DISSERTATIONS

Theses and Dissertations SupervisedSingapore 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 AssessedSingapore 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