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Education

PhD, University of Illinois 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]

PonziLens+: Visualizing bytecode actions for smart Ponzi scheme identification, by WEN, Xiaolin; NGUYEN, Tai D.; RUAN, Shaolun; SHEN, Qiaomu; SUN, Jun; ZHU, Feida; WANG, Yong. (2025). *IEEE Transactions on Visualization and Computer Graphics*, 31 (9), 6451-6465. <https://doi.org/10.1109/TVCG.2024.3516379> (Published)

Early detection of malicious crypto addresses with asset path tracing and selection, by CHENG, Ling; ZHU, Feida; SHAO, Qian; PU, Jiashu; ZENG, Fengzhu. (2025). *IEEE Transactions on Knowledge and Data Engineering*, 37 (3), 1154-1166. <https://doi.org/10.1109/TKDE.2024.3522772> (Published)

Zkfhed: A verifiable and scalable blockchain-enhanced federated learning system, by ZHANG, Bingxue; LU, Guangguang; WU, Yuncheng; REN, Kunpeng; ZHU, Feida. (2025). *IEEE Transactions on Knowledge and Data Engineering*, 37 (6), 3841-3854. <https://doi.org/10.1109/TKDE.2025.3550546> (Published)

Defending federated recommender systems against untargeted attacks: A contribution-aware robust aggregation scheme, by LIANG, Ruicheng; JIANG, Yuanchun; ZHU, Feida; CHENG, Ling; LIU, Huiwen. (2025). *ACM Transactions on Knowledge Discovery from Data*, 19 (1), 1-28. <https://doi.org/10.1145/3706112> (Published)

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. (2024). *ACM Transactions on Knowledge Discovery from Data*, 18 (3), 1-27. <https://doi.org/10.1145/3626102> (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*, 36 (10), 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)

- Protein deep profile and model predictions for identifying the causal genes of male infertility based on deep learning, by XU, Fang; GUO, Ganggang; ZHU, Feida; TAN, Xiaojun; FAN, Liqing. (2021). *Information Fusion*, 75 70-89. <https://doi.org/10.1016/j.inffus.2021.04.012> (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. <https://doi.org/10.1145/3456414> (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: Informatics and Computer Science Intelligent Systems Applications*, 436 56-73. <https://doi.org/10.1016/j.ins.2018.01.019> (Published)
- Two birds with one stone: Classifying positive and unlabeled examples on uncertain data streams, by HAN, Donghong; LI, Shuoru; WEI, Fulin; TANG, Yuying; ZHU, Feida; WANG, Guoren. (2018). *Neurocomputing*, 277 149-160. <https://doi.org/10.1016/j.neucom.2017.03.094> (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: Informatics and Computer Science Intelligent Systems Applications*, 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)

Editorials

Editorial: DSAA 2023 journal track on theoretical and practical data science and analytics., by YANG, Bin; ZHU, Feida; WEI, Wei. (2024). *International Journal of Data Science and Analytics*, 18 (4), 351-352.
<https://doi.org/10.1007/s41060-024-00645-3> (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

Reinforcement learning enhanced graph learning for CTR prediction in online advertising, by ZHANG, Yiming; ZHU, Feida; LI, Jiayi. (2025.0). *Proceedings of 2025 IEEE 21st International Conference on Automation Science and Engineering (CASE), Los Angeles, CA, August 17-21*, (pp. 2174-2179) Piscataway: IEEE. <https://doi.org/10.1109/CASE58245.2025.11164097> (Published)

- Enhanced sample selection with confidence tracking: Identifying correctly labeled yet hard-to-learn samples in noisy data, by PAN, Weiran; WEI, Wei; ZHU, Feida; DENG, Yong. (2025.0). *AAAI'25/IAAI'25/AAAI'25: Proceedings of the Thirty-Ninth AAAI Conference on Artificial Intelligence and Thirty-Seventh Conference on Innovative Applications of Artificial Intelligence and Fifteenth Symposium on Educational Advances in Artificial Intelligence, Philadelphia, Pennsylvania, February 25 - March 4*, (pp. 19795-19803) New York : ACM. <https://doi.org/10.1609/aaai.v39i19.34180> (Published)
- A full-history network dataset for BTC asset decentralization profiling, by CHENG, Ling; SHAO, Qian; ZENG, Fengzhu; ZHU, Feida. (2024.0). *2024 IEEE International Conference on Big Data, BigData: Washington, DC, December 15-18: Proceedings*, (pp. 14-23) Piscataway: IEEE. <https://doi.org/10.1109/BigData62323.2024.10825407> (Published)
- A security analysis of a deterministic key generation scheme, by SONG, Dennis; YAN, Yuping; SHAO, George; ZHU, Feida; SONG, Mason. (2024.0). *2024 IEEE International Conference on Cyber Security and Resilience (CSR): London, September 2-4: Proceedings*, (pp. 309-314) Piscataway: IEEE. <https://doi.org/10.1109/CSR61664.2024.10679483> (Published)
- The Fourth International Workshop on Smart Data for Blockchain and Distributed Ledger (SDBD '24), by ZHU, Feida; PEI, Jian; ZELLER, Michael; ZHANG, Bingxue. (2024.0). *KDD '24: Proceedings of the 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining: Barcelona, Spain, August 25-29*, (pp. 6757-6758) New York: ACM. <https://doi.org/10.1145/3637528.3671475> (Published)
- Knowledge enhanced multi-intent transformer network for recommendation, by ZOU, Ding; WEI, Wei; ZHU, Feida; XU, Chuanyu; ZHANG, Tao; HUO, Chengfu. (2024.0). *WWW '24: Companion Proceedings of the ACM on Web Conference, Singapore, May 13-17*, (pp. 1-9) New York: ACM. <https://doi.org/10.1145/3589335.3648296> (Published)
- Toward intention discovery for early malice detection in cryptocurrency, by CHENG, Ling; ZHU, Feida; WANG, Yong; LIANG, Ruicheng; LIU, Huiwen. (2023.0). *2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC): Honolulu, October 1-4: Proceedings*, (pp. 1846-1847) Piscataway, NJ: IEEE. <https://doi.org/10.1109/SMC53992.2023.10394086> (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)
- 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)
- 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, CHI Conference on Human Factors in Computing Systems, Hamburg, Germany, April 23-28*, (pp. 1-6) New York: ACM. <https://doi.org/10.1145/3544549.3585861> (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)
- 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)
- 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)
- 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)

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)

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)

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). *CIKM '19: Proceedings of the 28th ACM International Conference on Information and Knowledge Management, Beijing, November 3-7*, (pp. 1404-1410) New York: 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)

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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

Trust-by-design AI for future financial market and digital economy, ZeroTrusta , PI (Project Level): ZHU Feida, 2025, S\$295,613.5

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

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

Tokenized Economy and Collaborative Intelligence for Web 3 Media Industry, Zeasn Technology , 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, National University of Singapore (NUS) , Co-PI (Project Level): ZHU Feida, 2019, S\$4,609,920

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

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

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

China Ping An-SMU Joint Research Lab (Pinnacle Lab), Ping An Technology (Shenzhen) , 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) , 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) , 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

Web3 Development

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
Web3 Fundamentals

Postgraduate Research Programmes :

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

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

Member Board of Directors, Blockchain Association Singapore, 2023 - Present

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