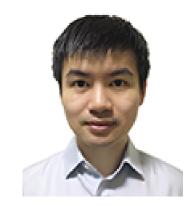
FANG Yuan

School of Computing and Information Systems Singapore Management University (SMU) 80 Stamford Road Singapore 178902

Email: yfang@smu.edu.sg
Office Phone: +65 6808 5150



Education

PhD, University of Illinois Urbana-Champaign, United States of America, 2014 Bachelor of Computing, National University of Singapore, Singapore, 2009

Academic Appointments

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

Assistant Professor of Information Systems, School of Computing and Information Systems, SMU, Jul 2018 - Mar 2021

RESEARCH

Research and Project Areas

Graph mining and learning, Web and social media mining, recommendation systems

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Journal Articles [Refereed]

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Modeling sequential preferences with dynamic user and context factors, by LE, Duc-Trong; FANG, Yuan; LAUW, Hady W.. (2016.0). *Machine learning and knowledge discovery in databases: European Conference, ECML PKDD 2016, Riva del Garda, Italy, September 19-23,* (pp. 145-161) Cham: Springer. https://doi.org/10.1007/978-3-319-46227-1 10 (Published)

Learning to query: Focused web page harvesting for entity aspects, by FANG, Yuan; ZHENG, Vincent W.; CHANG, Kevin Chen-Chuan. (2016.0). 2016 IEEE 32nd International Conference on Data Engineering ICDE 2016: Helsinki; Finland, May 16-20, Proceedings, (pp. 1002-1013) Los Alamitos, CA: IEEE Computer Society. https://doi.org/10.1109/ICDE.2016.7498308 (Published)

Semantic proximity search on graphs with metagraph-based learning, by FANG, Yuan; LIN, Wenqing; ZHENG, Vincent W.; WU, Min; CHANG, Kevin Chen-Chuan; LI, Xiao-Li. (2016.0). 2016 IEEE 32nd International Conference on Data Engineering ICDE: May 16-20, Helsinki, Finland, Proceedings, (pp. 277-288) Los Alamitos, CA: IEEE Computer Society. https://doi.org/10.1109/ICDE.2016.7498247 (Published)

IntelligShop: Enabling intelligent shopping in malls through location-based augmented reality, by ADHIKARI, Aditi; ZHENG, Vincent W.; CAO, Hong; LIN, Miao; FANG, Yuan; CHANG, Kevin Chen-Chuan. (2015.0). 2015 IEEE International Conference on Data Mining Workshop: 14-17 November, Atlantic City: Proceedings, (pp. 1604-1607) Piscataway, NJ: IEEE. https://doi.ieeecomputersociety.org/10.1109/ICDMW.2015.103 (Published)

Graph-based semi-supervised learning: Realizing pointwise smoothness probabilistically, by FANG, Yuan; CHANG, Kevin Chen-Chuan; LAUW, Hady W.. (2014.0). *Proceedings of the 31st International Conference on Machine Learning, Beijing, China, 21-26 June 2014,* (pp. 1-9) Cambridge, MA: JMLR. (Published)

Incremental and accuracy-aware personalized pagerank through scheduled approximation, by ZHU, Fanwei; FANG, Yuan; CHANG, Kevin Chen-Chuan; YING, Jing. (2013.0). *Proceedings of the VLDB Endowment: 39th International Conference on Very Large Data Bases 2013, Trento, Italy, August 26-30,* (pp. 481-492) Saratoga, CA: VLDB Endowment. https://doi.org/10.14778/2536336.2536348 (Published)

Confidence-aware graph regularization with heterogeneous pairwise features, by FANG, Yuan.; HSU, Bo-June Paul; CHANG, Kevin Chen-Chuan. (2012.0). SIGIR '12: Proceedings of the 35th International ACM SIGIR Conference on Research and Development in Information Retrieval: Portland, Oregon, August 12-16, (pp. 951-960) New York: ACM. https://doi.org/10.1145/2348283.2348410 (Published)

Privacy beyond single sensitive attribute, by FANG, Yuan; ASHRAFI, Mafruz Zaman; NG, See Kiong. (2011.0). *Database and expert systems applications: 22nd international conference, DEXA 2011, Toulouse, France, August 29 - September 2,* (pp. 187-201) Cham: Springer. https://doi.org/10.1007/978-3-642-23088-2_13 (Published)

Searching patterns for relation extraction over the Web: Rediscovering the pattern-relation duality, by FANG, Yuan; CHANG, Kevin Chen-Chuan. (2011.0). WSDM '11: Proceedings of the 4th International Conference on Web Search & Data Mining: Hong Kong, China, February 9-12, (pp. 825-834) New York: ACM. (Published)

Efficient skyline maintenance for streaming data with partially-ordered domains, by FANG, Yuan; CHAN, Chee-Yong. (2010.0). *Database systems for advanced applications: 15th international conference, DASFAA 2010, Tsukuba, Japan, April 1-4: Proceedings,* (pp. 322-336) Cham: Springer. https://doi.org/10.1007/978-3-642-12026-8_26 (Published)

Research Grants

Singapore Management University

Universal Pre-training of Graph Neural Networks, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE), PI (Project Level): FANG Yuan, Co-PI (Project Level): Jing JIANG, 2022, S\$676,468

Learning with Less Data, AME Programmatic Funds, Agency for Science, Technology and Research (A*STAR), Co-PI (Project Level): FANG Yuan, 2021, S\$8,924,040

Estate-IQ: An Advanced AI System for Enabling Smart HDB Estate Services, Cities of Tomorrow (CoT) R&D Programme, Ministry of National Development (MND) 2021, S\$4,983,878.6

One-Shot Learning: A Crucial Learning Paradigm Towards Human-like Learning, AI Singapore Research Programme, AI Singapore, PI (Project Level): FANG Yuan, Co-PI (Project Level): Steven HOI, 2018, \$\$497,757.6

Leveraging Network Functional Blocks for Semantic Proximity Estimation on Large-scale Heterogeneous Graphs, Alibaba Group, Co-PI (Project Level): FANG Yuan, 2018, S\$120,012

Semantics-Guided Representation Learning on Heterogeneous Graphs, SMU Internal Grant, Ministry of Education (MOE) Tier 1, PI (Project Level): FANG Yuan, 2018, S\$99,982.27

Other Institutions

Credit Risk Analytics using Network Effects, DBS-I2R Joint Lab, DBS Bank Co-PI (Project Level): FANG Yuan, 2016, SGD400,000

Branch Predictive Analytics, DBS-I2R Joint Lab, DBS Bank PI (Project Level): FANG Yuan, 2015, SGD100,000

TEACHING

Courses Taught

Singapore Management University

Undergraduate Programmes:

Statistical Thinking for Data Science

Postgraduate Professional Programmes:

Social Analytics and Applications

Postgraduate Research Programmes:

Empirical Research Project 1

Empirical Research Project 2

Empirical Research Project 3

Empirical Research Project 4

Empirical Research Project I

Empirical Research Project II

Empirical Research Project III

THESES AND DISSERTATIONS

Theses and Dissertations Assessed

Singapore Management University

Committee Member, "Finding top-m leading records in temporal data", Dissertation by WANG YIYI, Master of Philosophy in Information Systems, Singapore Management University, 2022

Committee Member, "Preference Learning and Similarity Learning Perspectives on Personalized Recommendation", Dissertation by LE Duy Dung, PhD in Computer Science, Singapore Management University, 2019

Committee Member, "Modeling Sequential and Basket-Oriented Associations for Top-K Recommendation", Dissertation by LE DUC TRONG, PhD in Information Systems, Singapore Management University, 2019

UNIVERSITY SERVICE

Singapore Management University

Committee Member, Dean's Evaluation Committee, Jul 2024 - Present

Committee Member, External Review Sub-Committee, BSc (Computer Science) Curriculum Review Committee, Jan 2024 - May 2024

Faculty reviewer, Microteaching session for Graduate Instructor Foundations in Teaching Programme (GIFT), May 2023 - Present

Attendee Meeting, Discussion Session - Quality Assurance Framework for Universities (QAFU), Sep 2022

Attendee Meeting, Focus Group Discussion on Gender Equity, Jul 2021

Other, Course Coordinator (CS105), Jan 2021 - Present

Instructor, Summer Voluntary Mathematics Preparatory Course for Incoming CS Students, Aug 2020 Panellist, Computer Science Virtual Open House, Mar 2020

EXTERNAL SERVICE - PROFESSIONAL

Committee Chair, Program Committee (Research Track), Singapore ACM SIGKDD Symposium 2024, 2024
Area Chair, Program Committee, WWW'24, WWW'25, KDD'25 (August Cycle), ICLR'25, 2023 - Present
Volunteers Co-chair, Organizing Committee, ACM The Web Conference 2024, 2023 - 2024
Committee Chair, Program Committee, Singapore ACM SIGKDD Symposium 2023, 2023
Session Chair, AAAI'23, WWW'23, SIGIR'23, AAAI'24, WWW'24, 2023 - Present
Secretary, Executive Committee, ACM SIGKDD Singapore Chapter, 2022 - Present
Workshop Co-chair, Organizing Committee, ACM WSDM 2023, 2022 - 2023

Chapter Membership Chair, Executive Committee, ACM SIGKDD Singapore Chapter, 2021 - 2022 Registration Co-Chair, Organizing Committee, ACM KDD Conference, 2021

Co-Chair, Organizing Committee, 4th Workshop on Heterogeneous Information Network Analysis & Applications (co-located with KDD21), 2021

Young Associate Editor, Frontiers of Computer Science, 2020 - Present

Member, Senior Program Committee, ECAI'20, IJCAI'21, CIKM'24, 2020 - Present

Reviewer Journal Article, TODS, TKDE, VLDBJ, TNNLS, TCYB, TSC, FCS, Neurocomputing, 2015 - Present

Member, Program Committee, AAAI'19-24, WWW'22-24, SIGIR'24, IJCAI'16,20,22-24, NeurIPS'21-24, ICML'21-23, ICLR'21-23, KDD (applied)'22-23, KDD'24, 2015 - Present