LIM Ee Peng

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

Email: eplim@smu.edu.sg
Office Phone: (+65) 68280781

Education

PhD, University of Minnesota, United States of America, 1994

Bachelor of Science, National University of Singapore, Singapore, 1989

Academic Appointments

Professor of Computer Science, School of Computing and Information Systems, SMU, Jul 2022 - Present

Lee Kong Chian Professor of Computer Science, School of Computing and Information Systems, SMU, Apr 2021 - Jun 2022

Lee Kong Chian Professor of Information Systems, School of Computing and Information Systems, SMU, Jul 2019 - Mar 2021

Professor of Information Systems, School of Computing and Information Systems, SMU, Jun 2008 - Jun 2019

Academic Administrative Positions

Urban Fellow (Urban Growth), SMU Urban Institute, SMU, Oct 2025 - Present

Director, Artificial Intelligence & Data Science Cluster, School of Computing and Information Systems, SMU, Jul 2024 - Present

Director, Living Analytics Research Centre, Living Analytics Research Centre, SMU, Jan 2011 - Jun 2022

Awards and Honors

Honorable Mention Paper entitled "Learning User Interface Semantics from Heterogeneous Networks with Multimodal and Positional Attributes", 27th International Conference on Intelligent User Interfaces (IUI '22), 2022

Keynote Talk on "AI for Digital Health: Opportunities & Challenges", 8th International Conference on Ambient Intelligence and Ergonomics in Asia (AmI&E2022), 2022

Test of Time Award, ECIR2021, European Conference on Information Retrieval, 2021

Keynote Talk, The 33th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2020), 2020

Top scientists in the world, Stanford University, 2020

Best Paper at the 5th Workshop on Data Science for Social Good (SoGood 2020), in conjunction with ECML PKDD2020., SoGood2020, 2020

WSDM2020 Test of Time Award, ACM International Conference on Web Search and Data Mining, 2020

Distinguished Contribution Award, Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD), 2019

Recognition of Service Award, Association of Computing Machinery (ACM), 2018

Best Paper, The 8th International Digital Health Conference, 2018

RESEARCH

Research Interests

Social network mining, data mining, data integration, digital libraries

Publications

Journal Articles [Refereed]

Efficient cross-modal video retrieval with meta-optimized frames, by HAN, Ning; YANG, Xun; LIM, Ee-Peng; CHEN, Hao; SUN, Qianru. (2024). *IEEE Transactions on Multimedia, 26* 1-12. https://doi.org/10.1109/TMM.2024.3416669 (Published)

Learning dynamic multimodal network slot concepts from the web for forecasting Environmental, Social and Governance Ratings, by ANG, Gary; LIM, Ee-Peng. (2024). *ACM Transactions on the Web, 18* (3), 1-32. https://doi.org/10.1145/3663674 (Published)

Temporal implicit multimodal networks for investment and risk management, by ANG, Gary; LIM, Ee-Peng. (2024). *ACM Transactions on Intelligent Systems and Technology, 15* (2), 1-25. https://doi.org/10.1145/3643855 (Published)

Non-monotonic generation of knowledge paths for context understanding, by LO, Pei-Chi; LIM, Ee-Peng. (2024). *ACM Transactions on Management Information Systems, 15* (1), 1-28. https://doi.org/10.1145/3627994 (Published)

Public acceptance of using artificial intelligence-assisted weight management apps in high-income Southeast Asian adults with overweight and obesity: A cross-sectional study, by CHEW, Han Shi Jocelyn; ACHANANUPARP, Palakorn; DALAKOTI, Mayank; CHEW, Nicholas W. S.; CHIN, Yip Han; GAO, Yujia; SO, Bok Yan Jimmy; SHABBIR, Asim; LIM, Ee Peng; NGIAM, Kee Yuan. (2024). *Frontiers in Nutrition, 11* 1-9. https://doi.org/10.3389/fnut.2024.1287156 (Published)

Your cursor reveals: On analyzing workers' browsing behavior and annotation quality In crowdsourcing tasks, by LO, Pei-Chi; LIM, Ee-Peng. (2023). *IEEE Access, 13* 1-16. https://doi.org/10.1109/ACCESS.2022.3212080 (Advance Online)

On predicting ESG ratings using dynamic company networks, by ANG, Gary; GUO, Zhiling; LIM, Ee-Peng. (2023). *ACM Transactions on Management Information Systems, 14* (3), 1-34. https://doi.org/10.1145/3607874 (Published)

A transformer framework for generating context-aware knowledge graph paths, by LO, Pei-Chi; LIM, Ee-Peng. (2023). *Applied Intelligence, 53* (20), 1-28. https://doi.org/10.1007/s10489-023-04588-3 (Published)

Non-binary evaluation of next-basket food recommendation, by LIU, Yue; ACHANANUPARP, Palakorn; LIM, Ee Peng. (2023). *User Modeling and User-Adapted Interaction, 34* (1), 1-45. https://doi.org/10.1007/s11257-023-09369-8 (Advance Online)

Investment and risk management with online news and heterogeneous networks, by ANG, Gary; LIM, Ee Peng. (2023). *ACM Transactions on the Web, 17* (2), 1-24. https://doi.org//10.1145/3532858 (Published)

Learning and Understanding User Interface Semantics from Heterogeneous Networks with Multimodal and Positional Attributes, by ANG, Gary; LIM Ee-Peng . (2023). *ACM Transactions on Interactive Intelligent Systems, 13* (3), 1-31. https://doi.org/10.1145/3578522 (Published)

Contextual path retrieval: A contextual entity relation embedding-based approach, by LO, Pei-Chi; LIM, Ee-Peng. (2023). *ACM Transactions on Information Systems, 41* (1), 1-38. https://doi.org/10.1145/3502720 (Published)

Causal Interventional Training for Image Recognition, by QIN, Wei; ZHANG, Hanwang; HONG, Richang; LIM, Ee-Peng; SUN, Qianru. (2023). *IEEE Transactions on Multimedia, 25* 1033-1044. https://doi.org/10.1109/TMM.2021.3136717 (Published)

On measuring network robustness for weighted networks, by ZHENG, Jianbing; GAO, Ming; LIM, Ee-Peng; LO, David; JIN, Cheqing; ZHOU, Aoying. (2022). *Knowledge and Information Systems, 64* (7), 1967-1996. https://doi.org/10.1007/s10115-022-01670-z (Accepted)

Learning Semantically Rich Network-based Multi-modal Mobile User Interface Embeddings, by ANG, Gary; LIM, Ee-Peng. (2022). *ACM Transactions on Interactive Intelligent Systems, 12* (4), 1-29. https://doi.org/10.1145/3533856 (Published)

Face to purchase: Predicting consumer choices with structured facial and behavioral traits embedding, by LIU, Zhe; WANG, Xianzhi; YAO, Lina; AN, Jake; BAI, Lei; LIM, Ee-Peng. (2022). *Knowledge-Based Systems, 235* 1-10. https://doi.org/10.1016/j.knosys.2021.107665 (Published)

Cross-Modal Food Retrieval: Learning a Joint Embedding of Food Images and Recipes With Semantic Consistency and Attention Mechanism, by WANG, Hao; SAHOO, Doyen; LIU, Chenghao; SHU, Ke; ACHANANUPARP, Palakorn; LIM, Ee-Peng; HOI, Steven C. H.. (2022). *IEEE Transactions on Multimedia, 24* 2515-2525. https://doi.org/10.1109/TMM.2021.3083109 (Published)

On Aggregating Salaries of Occupations From Job Post and Review Data, by HUNG, Chih-Chieh; LIM, Ee-Peng. (2021). *IEEE Access, 9* 43422-43433. (Published)

Discovering Hidden Topical Hubs and Authorities Across Multiple Online Social Networks, by LEE, Roy Ka-Wei; HOANG, Tuan-Anh; LIM, Ee-Peng. (2021). *IEEE Transactions on Knowledge and Data Engineering, 33* (1), 70-84. (Published)

Understanding Continuance Intention toward Crowdsourcing Games: A Longitudinal Investigation, by WANG, Xiaohui; GOH, Dion Hoe-Lian; LIM, Ee-Peng. (2020). *International Journal of Human-Computer Interaction, 36* (12), 1168-1177. (Published)

Fine-grained Geolocation of Tweets in Temporal Proximity, by CHONG, Wen Haw; LIM, Ee Peng. (2019). *ACM Transactions on Information Systems, 37* (2), 17:1-33. https://doi.org/10.1145/3291059 (Published)

Modeling location-based social network data with area attraction and neighborhood competition, by DOAN, Thanh Nam; LIM, Ee Peng. (2019). *Data Mining and Knowledge Discovery, 33* (1), 58-95. https://doi.org/10.1007/s10618-018-0588-4 (Published)

Talent flow analytics in online professional network, by OENTARYO, Richard J.; LIM, Ee Peng; ASHOK, Xavier Jayaraj Siddarth; PRASETYO, Philips Kokoh. (2018). *Data Science and Engineering, 3* (3), 199-220. https://doi.org/10.1007/s41019-018-0070-8 (Published)

Understanding the effects of taxi ride-sharing - A case study of Singapore, by WANG, Yazhe; ZHENG, Baihua; LIM, Ee Peng. (2018). *Computers, Environment and Urban Systems, 69* 124-132. https://doi.org/10.1016/j.compenvurbsys.2018.01.006 (Published)

Exploiting User and Venue Characteristics for Fine-Grained Tweet Geolocation, by CHONG, Wen Haw; LIM, Ee Peng. (2018). *ACM Transactions on Information Systems, 36* (3), 26:1-34. https://doi.org/10.1145/3156667 (Published)

Do your friends make you buy this brand? Modeling social recommendation with topics and brands, by LUU, Minh Duc; LIM, Ee Peng. (2018). *Data Mining and Knowledge Discovery, 32* (2), 287-319. https://doi.org/10.1007/s10618-017-0535-9 (Published)

The Retransmission of Rumor and Rumor Correction Messages on Twitter, by CHUA, Alton Y. K.; TEE,

Cheng-Ying; PANG, Augustine; LIM, Ee Peng. (2017). *American Behavioral Scientist, 61* (7), 707-723. https://doi.org/10.1177/0002764217717561 (Published)

Modeling Topics and Behavior of Microbloggers: An Integrated Approach, by HOANG, Tuan Anh; LIM, Ee Peng. (2017). *ACM Transactions on Intelligent Systems and Technology, 8* (3), 1-37. https://doi.org/10.1145/2990507 (Published)

Examining the Effectiveness of Gamification in Human Computation, by WANG, Xiaohui; GOH, Dion Hoe-Lian; LIM, Ee Peng; VU, Adrian Wei Liang; CHUA, Alton Yeow Kuan. (2017). *International Journal of Human-Computer Interaction, 33* (10), 813-821. https://doi.org/10.1080/10447318.2017.1287458 (Published)

Microblogging Content Propagation Modeling Using Topic-Specific Behavioral Factors, by HOANG, Tuan-Anh; LIM, Ee Peng. (2016). *IEEE Transactions on Knowledge and Data Engineering, 28* (9), 2407-2422. https://doi.org/10.1109/TKDE.2016.2562628 (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)

Understanding the determinants of human computation game acceptance The effects of aesthetic experience and output quality, by WANG, Xiaohui; GOH; Dion Hoe-Lian; LIM, Ee-Peng; VU, Adrian Wei Liang. (2016). *Online Information Review, 40* (4), 481-496. http://doi.org/10.1108/OIR-06-2015-0203 (Published)

On detecting maximal quasi antagonistic communities in signed graphs, by GAO, Ming; LIM, Ee Peng; LO, David; PRASETYO, Philips Kokoh. (2016). *Data Mining and Knowledge Discovery, 30* (1), 99-146. https://doi.org/10.1007/s10618-015-0405-2 (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)

ReputationPro: The Efficient Approaches to Contextual Transaction Trust Computation in E-Commerce Environments, by ZHANG, Haibin; WANG, Yan; ZHANG, Xiuzhen; LIM, Ee Peng. (2015). *ACM Transactions on the Web, 9* (1), http://doi.org/10.1145/2697390 (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)

Generative Models for Item Adoptions Using Social Correlation, by CHUA, Freddy Chong Tat; LAUW, Hady W.; LIM, Ee Peng. (2013). *IEEE Transactions on Knowledge and Data Engineering, 25* (9), 2036-2048. http://doi.org/10.1109/TKDE.2012.137 (Published)

Mining direct antagonistic communities in signed social networks, by LO, David; SURIAN, Didi; PRASETYO, Philips Kokoh; KUAN, Zhang; LIM, Ee Peng. (2013). *Information Processing and Management, 49* (4), 773-791. https://doi.org/10.1016/j.ipm.2012.12.009 (Published)

Finding the Optimal Social Trust Path for the Selection of Trustworthy Service Providers in Complex Social Networks, by LIU, Guanfeng; WANG, Yan; ORGUN, Mehmet A.; LIM, Ee Peng. (2013). *IEEE Transactions on Services Computing, 6* (2), 152-167. http://doi.org/10.1109/TSC.2011.58 (Published)

Business intelligence and analytics: Research directions, by LIM, Ee Peng; CHEN, Hsinchun; CHEN, Guoqing. (2013). *ACM Transactions on Management Information Systems, 3* (4), 1-10. http://doi.org/10.1145/2407740.2407741 (Published)

Mining indirect antagonistic communities from social interactions, by ZHANG, Kuan; LO, David; LIM, Ee Peng; PRASETYO, Philips Kokoh. (2013). *Knowledge and Information Systems, 35* (3), 553-583. http://doi.org/10.1007/s10115-012-0519-4 (Published)

Fast and Accurate PSD Matrix Estimation by Row Reduction, by KUWAJIMA, Hiroshi; WASHIO, Takashi; LIM, Ee Peng. (2012). *IEICE Transactions on Information and Systems, E95D* (11), 2599-2612. https://doi.org/10.1587/transinf.E95.D.2599 (Published)

Influentials, novelty, and social contagion The viral power of average friends, close communities, and old news, by HARRIGAN, Nicholas; ACHANANUPARP, Palakorn; LIM, Ee Peng. (2012). *Social Networks, 34* (4), 470-480. https://doi.org/10.1016/j.socnet.2012.02.005 (Published)

Quality and Leniency in Online Collaborative Rating Systems, by LAUW, Hady W.; LIM, Ee Peng; WANG, Ke. (2012). *ACM Transactions on the Web, 6* (1), 4-1-4-27. https://doi.org/10.1145/2109205.2109209 (Published)

Who is retweeting the tweeters? Modeling, originating, and promoting behaviors in the twitter network, by PALAKORN, Achananuparp; LIM, Ee Peng; JIANG, Jing; HOANG, Tuan Anh. (2012). *ACM Transactions on Management Information Systems, 3* (3), 1-30. http://doi.org/10.1145/2361256.2361258 (Published)

Evaluating the use of a mobile annotation system for geography education, by GOH, Dion Hoe-Lian; RAZIKIN, Khasfariyati; LEE, Chei Sian; LIM, Ee Peng; CHATTERJEA, Kalyani; CHANG, Chew-Hung. (2012). *The Electronic Library: Digital information organization and use, 30* (5), 589-607. http://doi.org/10.1108/02640471211275666 (Published)

Web classification of conceptual entities using co-training, by SUN, Aixin; LIU, Ying; LIM, Ee Peng. (2011). *Expert Systems with Applications, 38* (12), 14367-14375. http://doi.org/10.1016/j.eswa.2011.03.010 (Published)

A usability study of a mobile content sharing system, by CHUA, Alton Yeow-Kuan; GOH, Dion Hoe-Lian; RAZIKIN, Khasfariyati; LIM, Ee Peng. (2011). *Journal of Mobile Multimedia, 7* (1), 51-65. http://dl.acm.org/citation.cfm?id=2011092 (Published)

Keep It Simple with Time: A Reexamination of Probabilistic Topic Detection Models, by HE, Qi; CHANG, Kuiyu; LIM, Ee Peng; BANERJEE, Arindam. (2010). *IEEE Transactions on Pattern Analysis and Machine Intelligence, 32* (10), 1795-1808. http://doi.org/10.1109/TPAMI.2009.203 (Published)

STEvent: Spatio-Temporal Event Model for Social Network Discovery, by LAUW, Hady W.; LIM, Ee Peng; PANG, Hwee Hwa; TAN, Teck-Tim. (2010). *ACM Transactions on Information Systems, 28* (3), 1-32. https://doi.org/10.1145/1777432.1777438 (Published)

Trust-Oriented Composite Service Selection with QoS Constraints, by LI, Lei; WANG, Yang; LIM, Ee Peng. (2010). *The Journal of Universal Computer Science, 16* (13), http://www.jucs.org/jucs_16_13/trust_oriented_composite_service (Published)

On strategies for imbalanced text classification using SVM: A comparative study, by SUN, Aixin; LIM, Ee Peng; LIU, Ying. (2009). *Decision Support Systems, 48* (1), 191-201. http://doi.org/10.1016/j.dss.2009.07.011 (Published)

Localized monitoring of <i>k</i>NN queries in wireless sensor networks, by YAO, Yuxia; TANG, Xueyan; LIM, Ee Peng. (2009). *VLDB Journal, 18* (1), 99-117. http://doi.org/10.1007/s00778-007-0089-3 (Published)

Dynamic web service selection for reliable web service composition, by HWANG, San-Yih; LIM, Ee Peng; LEE, Chien-Hsiang; CHEN, Cheng-Hung. (2009). *IEEE Transactions on Services Computing, 1* (2), 104-116. http://doi.org/10.1109/TSC.2008.2 (Published)

Bias and controversy in evaluation systems, by LAUW, Hady W.; LIM, Ee Peng; WANG, Ke. (2008). *IEEE Transactions on Knowledge and Data Engineering, 20* (11), 1490-1504. http://doi.org/10.1109/tkde.2008.77 (Published)

Anticipatory event detection via classification, by QI, He; CHANG, Kuiyu; LIM, Ee Peng. (2007). *Information Systems and E-Business Management, 5* (3), 275-294. http://doi.org/10.1007/s10257-007-0047-z (Published)

Extracting link chains of relationship instances from a Web site, by NAING, Myo-Myo; LIM, Ee Peng; CHIANG, Roger Hsiang-Li. (2006). *Journal of the American Society for Information Science and Technology, 57* (12), 1590-1605. http://doi.org/10.1002/asi.20469 (Published)

Efficient algorithms for mining maximal valid groups, by WANG, Yida; LIM, Ee Peng; HWANG, San-Yih. (2008). *VLDB Journal, 17* (3), 515-535. http://doi.org/10.1007/s00778-006-0019-9 (Published)

An energy-efficient and access latency optimized indexing scheme for wireless data broadcast, by YAO, Yuxia; TANG, Xueyan; LIM, Ee Peng; SUN, Aixin. (2006). *IEEE Transactions on Knowledge and Data Engineering, 18* (8), 1111-1124. http://doi.org/10.1109/tkde.2006.118s (Published)

Web unit-based mining of homepage relationships, by SUN, Aixin; LIM, Ee Peng. (2006). *Journal of the American Society for Information Science and Technology, 57* (3), 394-407. http://doi.org/10.1002/asi.20279 (Published)

Efficient mining of group patterns from user movement data, by WANG, Yida; LIM, Ee Peng; HWANG, San-Yih. (2006). *Data & Knowledge Engineering, 57* (3), 240-282. http://doi.org/10.1016/j.datak.2005.04.006 (Published)

Conceptual classfication of web pages using bootstrapping and co-training strategies, by LIM, Ee Peng; SUN, Aixin; Marissa, Maria. (2006). *Cyberscape Journal, 4* (1), http://www.cais.ntu.edu.sg/~axsun/paper/sun_cyberscape06.pdf (Published)

On organizing and accessing geospatial and georeferenced Web resources using the G-Portal system, by LIU, Zehua; LIM, Ee Peng; THENG, Yin-Leng; GOH, Dion Hoe-Lian; NG, Wee-Keong. (2005). *Information Processing and Management, 41* (5), 1277-1297. http://doi.org/10.1016/j.ipm.2004.07.001 (Published)

GeogDL: a web-based approach to geography examination revision, by LIM, Ee Peng; GOH, Dion Hoe-Lian; THENG, Yin-Leng. (2005). *Computers & Education, 45* (1), 57-73. http://doi.org/10.1016/j.compedu.2004.04.011 (Published)

Social network discovery by mining spatio-temporal events, by LAUW, Hady W.; LIM, Ee Peng; PANG, Hwee Hwa; TAN, Teck-Tim. (2005). *Computational and Mathematical Organization Theory, 11* (2), 97-118. https://doi.org/10.1007/s10588-005-3939-9 (Published)

DEQUE: querying the deep web, by SHESTAKOV, Denis; BHOWMICK, Sourav S.; LIM, Ee Peng. (2005). *Data & Knowledge Engineering, 52* (3), 273-311. http://doi.org/10.1016/j.datak.2004.06.009 (Published)

Scheduling queries to improve the freshness of a website, by LIU, Haifeng; NG, Wee-Keong; LIM, Ee Peng. (2005). *World Wide Web, 8* (1), 61-90. http://doi.org/10.1023/b:wwwj.0000047378.69751.72 (Published)

Linear correlation discovery in databases: a data mining approach, by CHUA, Cecil; CHIANG, Roger Hsiang-Li; LIM, Ee Peng. (2005). *Data & Knowledge Engineering, 53* (3), 311-337. http://doi.org/10.1016/j.datak.2004.09.002 (Published)

Finding and classifying web units in web sites, by LIM, Ee Peng; SUN, Aixin. (2005). *International Journal of Business Intelligence and Data Mining, 1* (2), 161-193. http://doi.org/10.1504/IJBIDM.2005.008361 (Published)

Applying scenario-based design and claims analysis to the design of a digital library of geography examination resources, by THENG, Yin-Leng; GOH, Dion Hoe-Lian; LIM, Ee Peng; LIU, Zehua; YIN, Ming; PANG, Natalie Lee-San; WONG, Patricia Bao-Bao. (2005). *Information Processing and Management, 41* (1), 23-40. http://doi.org/10.1016/j.ipm.2004.04.004 (Published)

Discovery of concept entities from web sites using web unit mining, by YIN, Ming; GOH, Dion Hoe-Lian; LIM, Ee Peng. (2005). *International Journal of Web Information Systems, 1* (3), 123-135. http://doi.org/10.1108/17440080580000088 (Published)

Accommodating instance heterogeneities in database integration, by LIM, Ee Peng; CHIANG, Roger Hsiang-Li. (2004). *Decision Support Systems, 38* (2), 213-231. http://doi.org/10.1016/S0167-9236(03)00103-9 (Published)

Blocking reduction strategies in hierarchical text classification, by LIM, Ee Peng; SUN, Aixin; NG, Wee-Keong; SRIVASTAVA, Jaideep. (2004). *IEEE Transactions on Knowledge and Data Engineering, 16* (10), 1305-1308. http://doi.org/10.1109/TKDE.2004.50s (Published)

An interactive learning environment for a dynamic educational digital library, by LIM, Ee Peng; GOH, Dion Hoe-Lian; THENG, Yin-Leng; SUEN, Eng-Kai. (2004). *WSEAS Transactions on Computers, 3* (3), 756-761. http://dr.ntu.edu.sg/handle/10220/6198 (Published)

A Support-Ordered Trie for fast frequent itemset discovery, by LIM, Ee Peng; WOON, Yew-Kwong; NG, Wee-Keong. (2004). *IEEE Transactions on Knowledge and Data Engineering, 16* (7), 875-879. https://doi.org/10.1109/TKDE.2004.1318569 (Published)

Towards building logical views of websites, by LIM, Ee Peng; LIU, Zehua; NG, Wee-Keong; LI, Feifei. (2004). *Data & Knowledge Engineering, 49* (2), 197-222. http://doi.org/10.1016/j.datak.2003.10.004 (Published)

Parameter driven synthetic web database generation, by LIM, Ee Peng; PRIYADARSHINI, Pallavi; QIN,

Fengqiong; NG, Wee-Keong. (2004). *Journal of Systems and Software, 69* (1-2), 29-42. http://doi.org/10.1016/S0164-1212(03)00002-5 (Published)

A Java-based digital library portal for geography education, by LIU, Zehua; YUAN, Hai; LIM, Ee Peng; YIN, Ming; GOH, Dion Hoe-Lian; THENG, Yin-Leng; NG, Wee-Keong. (2004). *Science of Computer Programming, 53* (1), 87-105. http://doi.org/10.1016/j.scico.2004.02.007 (Published)

Data model for warehousing historical Web information, by LIM, Ee Peng; CAO, Yinyan; NG, Wee-Keong. (2003). *Information and Software Technology, 45* (6), 315-334. http://doi.org/10.1016/S0950-5849(03)00019-3 (Published)

Instance-based attribute identification in database integration, by LIM, Ee Peng; CHUA, Cecil; CHIANG, Roger Hsiang-Li. (2003). *VLDB Journal, 12* (3), 228-243. http://doi.org/10.1007/s00778-003-0088-y (Published)

Performance measurement framework for hierarchical text classification, by LIM, Ee Peng; SUN, Aixin; NG, Wee-Keong. (2003). *Journal of the American Society for Information Science and Technology, 54* (11), 1014-1028. http://doi.org/10.1002/asi.10298 (Published)

Anatomy of the coupling query in a web warehouse, by BHOWMICK, Sourav S.; MADRIA, Sanjay Kumar; NG, Wee-Keong; LIM, Ee Peng. (2002). *Information and Software Technology, 44* (9), 513-539. http://doi.org/10.1016/S0950-5849(02)00051-4 (Published)

Product schema integration for electronic commerce - A synonym comparison approach, by YAN, Guanghao; NG, Wee-Keong; LIM, Ee Peng. (2002). *IEEE Transactions on Knowledge and Data Engineering, 14* (3), 583-598. https://doi.org/10.1109/TKDE.2002.1000344 (Published)

An intelligent middleware for linear correlation discovery, by CHUA, Cecil; CHIANG, Roger Hsiang-Li; LIM, Ee Peng. (2002). *Decision Support Systems, 32* (4), 313-326. http://doi.org/10.1016/S0167-9236(01)00127-0 (Published)

On Conceptual Micro-Object Modeling, by CHUA, Cecil; CHIANG, Roger Hsiang-Li; LIM, Ee Peng. (2002). *Journal of Database Management, 3* (3), 1-16. http://doi.org/10.4018/jdm.2002070101 (Published)

Mobile commerce: Promises, challenges and research agenda, by SIAU, Keng; LIM, Ee Peng. (2001). *Journal of Database Management, 12* (3), 4-13. http://doi.org/10.4018/jdm.2001070101 (Published)

Incorporating window-based passage-level evidence in document retrieval, by XI, Wensi; XU-RONG, Richard; KHOO, Christopher Soo Guan; LIM, Ee Peng. (2001). *Journal of Information Science, 27* (2), 73-80. http://doi.org/10.1177/016555150102700202 (Published)

Ontologies and electronic commerce, by FENSEL, Dieter; MCGUINNESS, Deborah L.; SCHULTEN, Ellen; NG, Wee-Keong; LIM, Ee Peng; YAN, Guanghao. (2001). *IEEE Intelligent Systems, 16* (1), 8-14. http://doi.org/10.1109/MIS.2001.1183337 (Published)

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Social informatics, edited by JATOWT, Adam; LIM, Ee Peng; DING, Ying; MIURA, Asako; TEZUKA, Taro; DIAS, Gael; TANAKA, Katsumi; FLANAGIN, Andrew J.; DAI, Bing Tian. (25/11/2013). Lecture Notes in Computer Science, 8238. Cham: Springer Verlag. http://doi.org/10.1007/978-3-319-03260-3 (Published)

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A framework for acquiring domain semantics and knowledge for database integration, by CHIANG, Roger Hsiang-Li; LIM, Ee Peng; STOREY, Veda C.. (2000, March). *Data Base for Advances in Information Systems, 31* (2), 46-64. (Published)

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Instance-level integration, query processing and optimization in Federated Database Systems (Doctoral dissertation), by LIM, Ee Peng. (1994). Minneapolis, MN: University of Minnesota. (Published)

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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

Conversational Health AI for Mental Health, Population Health Research Grant (PHRG), Ministry of Health (MOH) , PI (Project Level): LIM Ee Peng, 2024, S$1,197,300

ACTBIG: On Analysing Career Trajectories using Big Data, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE) , PI (Project Level): LIM Ee Peng, 2024, S$803,088

Digital Wellbeing: Identifying, Testing and Measuring Framework Indicators Towards Digital Readiness, Inclusion and Safety, National University of Singapore (NUS) , Co-PI (Project Level): LIM Ee Peng, 2024, S$78,750

Digital Wellbeing: Identifying, Testing and Measuring Framework Indicators Towards Digital Readiness, Inclusion and Safety, National University of Singapore (NUS) , Co-PI (Project Level): LIM Ee Peng, 2022, S$121,096

Singlish Learning by Crowdsourcing, DSO National Laboratories , PI (Project Level): LIM Ee Peng, 2020, S$612,300

Rich Context - Automated Data Inventory, Coleridge Initiative Inc , PI (Project Level): LIM Ee Peng, 2020, S$27,519.99

Sentiment Analysis of MRT's Event-Related Social Media Content, Public Transport Council (PTC) , PI (Project Level): LIM Ee Peng, 2018, S$5,000

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

Social Media Profile Analytics, DSO National Laboratories , PI (Project Level): LIM Ee Peng, 2017, S$699,400

Personalized Participatory Nation: The Proposal for 2nd Phase Funding of Living Analytics Research Centre (LARC) – CMU Partnership & International Collaborations, Interactive Digital Media (IDM) International Research Centres (IRCs) Funding Scheme, National Research Foundation (NRF) , PI (Programme Level): LIM Ee Peng , PI (Project Level): Archan MISRA, ZHENG Baihua, Steven HOI, Jing JIANG, 2017, S$6,984,929

Center for Applied Smart-Nation Analytics (CASA), Translational R&D for Application to Smart Nation (TRANS), National Research Foundation (NRF) , PI (Project Level): Archan MISRA , Co-PI (Project Level): LIM Ee Peng, 2016, S$3,000,000

Personalized Participatory Nation: The Proposal for 2nd Phase Funding of Living Analytics Research Centre (LARC), Interactive Digital Media (IDM) International Research Centres (IRCs) Funding Scheme, National Research Foundation (NRF) , PI (Programme Level): LIM Ee Peng , PI (Project Level): Archan MISRA, ZHENG Baihua, Steven HOI, Jing JIANG, 2016, S$18,015,071

Social Media Analytics, NEC Asia Pacific Pte Ltd , PI (Project Level): LIM Ee Peng, 2015, S$309,358.4

Sensor-Enabled Homes and Personalised Care for Senior Singaporeans Living in the HDB Environment, Land and Liveability National Innovation Challenge (L2 NIC), Ministry of National Development (MND) , PI (Project Level): TAN Hwee Pink, 2014, S$3,400,988.76

Living Analytics Centre, Interactive Digital Media (IDM) International Research Centres (IRCs) Funding Scheme, National Research Foundation (NRF) , PI (Programme Level): LIM Ee Peng , PI (Project Level): LAU Hoong Chuin, Archan MISRA, 2010, S$52,476,910

Trust Prediction in Co-Space: A Data Driven Approach, Interactive Digital Media (IDM) Research and Development Grant, National Research Foundation (NRF) , PI (Project Level): LIM Ee Peng, S$850,800

Mining Interaction Behaviors from Information Exchange Networks, DSO National Laboratories , PI (Project Level): LIM Ee Peng, S$346,800

Advancing LLMs for Target-Driven Conversation: A Dual Model Framework, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): LIAO Lizi , Co-PI (Project Level): LIM Ee Peng, 2023, S$190,000

Semi-supervised Fact-checking via Multi-View Evidence Embedding, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Wei GAO , Co-PI (Project Level): LIM Ee Peng, 2019, S$100,000

The influential hypothesis and social contagion: observational evidence from Twitter, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Nicholas HARRIGAN, 2009, S$18,422.22

Other Institutions

FrankLM: Fact-check and report automation via neural knowledge Language Modeling, AI Research Grant, AISG PI (Project Level): Wei GAO, Co-PI (Project Level): LIAO Lizi, LIM Ee Peng, 2025, SGD998,660

ACTBIG: On Analysing Career Trajectories using Big Data, MOE Tier 2, MOE PI (Project Level): LIM Ee Peng, 2024, SGD803,088

Conversational Health AI for Mental Health, Population Health Research Grant (PHRG) Thematic Category, NMRC PI (Project Level): LIM Ee Peng, 2024, SGD1,197,300

Digital Wellbeing: Identifying, Testing and Measuring Framework Indicators Towards Digital Readiness, Inclusion and Safety, Collaborative Project Grant (NUS CTIC-CP) Call 2021, NUS Audrey Yue, PI (Project Level): LIM Ee Peng, 2022, SGD121,096

Transition from Living Analytics Research Centre to Social Urban Observatory, NRF, National Research Foundation PI (Project Level): LIM Ee Peng, Co-PI (Project Level): Archan MISRA, ZHENG Baihua, Jing JIANG, 2021, SGD2,687,280

Transition from Living Analytics Research Centre to Social Urban Observatory, Strategic Capabilities Research Centres Funding Initiative, NRF PI (Project Level): LIM Ee Peng, Co-PI (Project Level): ZHENG Baihua, Archan MISRA, Jing JIANG, Wei GAO, SUN Qianru, HARA, Kotaro, Palakorn ACHANANUPARP, 2021, SGD2,687,280

Transition from Living Analytics Research Centre to Social Urban Observatory, NRF, National Research Foundation - Strategic Capabilities Research Centres Funding Initiative , PI (Programme Level): LIM Ee Peng, PI (Project Level): LIM Ee Peng, Archan MISRA, Jing JIANG, ZHENG Baihua, Co-PI (Project Level): HARA, Kotaro, SUN Qianru, Palakorn ACHANANUPARP, Wei GAO, 2021, SGD2,687,280

LARC 2.0 - Living Analytics Research Centre – Phase II (Project PI for 1 of 4 work packages, "Smart

Consumption & Healthy LifeStyle"), International Research Centre, National Research Foundation , PI (Programme Level): LIM Ee Peng, Mark Kamlet, PI (Project Level): LIM Ee Peng, Co-PI (Project Level): Archan MISRA, Jing JIANG, ZHENG Baihua, Steven HOI, 2016, SGD25,000,000

Social Media Profile Analytics and Jobs Intelligence, Living Analytics Research Centre, DSO National Laboratories PI (Project Level): LIM Ee Peng, Co-PI (Project Level): DAI Bing Tian, SGD699,400

TEACHING

Courses Taught

Singapore Management University

Undergraduate Programmes :

   Data Management

Postgraduate Research Programmes :

   Empirical Research Project 2

   Empirical Research Project 3

   Empirical Research Project 4

   Empirical Research Project I

   Empirical Research Project II

THESES AND DISSERTATIONS

Theses and Dissertations Supervised

Singapore Management University

Supervisor, "Context Recovery in Location-based Social Networks", Dissertation by CHONG WEN HAW, PhD in Information Systems, Singapore Management University, 2018

Supervisor, "Learning Latent Characteristics of Locations-based Social Networking Data", Dissertation by DOAN THANH NAM, PhD in Information Systems, Singapore Management University, 2018

Supervisor, "Modeling Adoption Dynamics in Social Networks", Dissertation by LUU MINH DUC, PhD in Information Systems, Singapore Management University, 2017

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

Supervisor, "User Behaviour Mining in Microblogging", Dissertation by HOANG TUAN ANH, PhD in Information Systems, Singapore Management University, 2016

Supervisor, "Social Correlation in Latent Spaces for Complex Networks", Dissertation by CHUA CHONG TAT FREDDY, PhD in Information Systems, Singapore Management University, 2014

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

Supervisor, "Predictive Modeling for Navigating Social Media", Dissertation by HU MEIQUN, PhD in Information Systems, Singapore Management University, 2012

Other Institutions

Supervisor, "Sequential Recommendation: From Representation Learning to Reasoning", Dissertation by Wang Lei, PhD, Singapore Management University, 2024

Supervisor, "Analyzing and Modeling Users in Multiple Online Social Platforms", Thesis by Roy Ka-Wei Lee, Singapore Management University, 2019

Supervisor, "Learning Dynamic Multimodal Networks", Dissertation by Gary Ang, PhD, Singapore Management University, 2019

Supervisor, "Connecting the dots for contextual information retrieval", Dissertation by Lo Pei Chi, PhD, Singapore Management University, 2018

Theses and Dissertations Assessed

Singapore Management University

Co Supervisor, "Making Sense of Crowd-Generated Content in Domain-Specific Settings", Dissertation by AGUS SULISTYA, PhD in Information Systems, Singapore Management University, 2019

Committee Member, "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

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

Committee Member, "Event Identification and Analysis on Twitter", Dissertation by DIAO QIMING, PhD in Information Systems, Singapore Management University, 2015

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

OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

Presentation and Talks

Presentations

Cyber Infrastructure and Big Data Analytics for Social Good , (29 Jan 2021). *Library Technology Conclave – LTC2021 (eScience and Digital Libraries: Building Communities for Collaboration),* Online.

Invited Seminars, Talks and Lectures

Panel Discussion on NUS Cities Research Roadmap, 07 Dec 2022. NUS Cities - Building an Urban Science Community in Singapore

Data Mining for Labour Market Intelligence, 13 Dec 2021. "Math-for-Industry" Forum 2021, Hanoi, Vietnam

Computational Social Science: The LARC Experience, 06 Jul 2021. SSRC Roundtable Discussion on Computational Social Sciences, Singapore

UNIVERSITY SERVICE

Singapore Management University

Committee Member, School of Economics External Academic Review (EAR) 2025, Oct 2025

Director, Director, AI and Data Science Cluster , Jul 2024 - Dec 2025

Guest Speaker, Human Capital Development: The Role of Computational Social Science Workshop, Nov 2023

Attendee Meeting, MAKER: Urban Data & Novel Infra/Insights (DBS Workshop), Oct 2023

Committee Member, Working Group on AI Detection Tools, May 2023 - Jul 2023

Committee Member, School Evaluation Committee, Jan 2023 - Dec 2023

Attendee Meeting, MAKER Workshop (ML, Big Data and Economic Modelling), Nov 2022

Committee Member, Reading Evaluation Committee, Aug 2022 - Present

Committee Member, School Evaluation Committee, Aug 2022 - Present

Committee Member, Dean's Evaluation Committee (DEC) , Jun 2022 - Dec 2025

Committee Member, SMU Strategic Priority Expert Panels, Jan 2020 - Present

Committee Member, Reading Evaluation Committee, Jan 2020 - Present

Chair and Member, School Evaluation Committee, Jan 2020 - Present

EXTERNAL SERVICE – PROFESSIONAL

Conference Chair, The 6th International Workshop on Talent and Management Computing (TMC 2025), in conjunction with KDD2025, SMU, 2025

Conference Chair, 30th International Conference on Database Systems for Advanced Applications (DASFAA 2025), SMU, 2025

Conference Chair, KDD International Workshop on Talent and Management Computing (TMC' 2023), 2023

Reviewer Grant Proposal, Swiss National Science Foundation, 2023

Guest Speaker, NAFA Teaching & Learning Forum on AI in Education, NAFA, 2023

Committee Chair, Best Paper Award Chairs, IEEE International Conference on Data Science and Advanced Analytics 2022, 2022 - Present

Conference Chair, DASFAA2021, 2021 - Present

Conference Chair, PAKDD2020, 2020 - Present

Expert Panel Member, DSTA Technical Competency Accreditation Panel – Data Engineer-ing, DSTA, 2020 - Present

EXTERNAL SERVICE – PUBLIC SECTOR AND COMMUNITY SERVICE

Judge, AI Space Challenge 2022, ICE Cubes Service, SpaceZab, GranSystems & Zenith Intellutions, 2021 - 2022

Council Member, SSRC, Social Science Research Council, 2018 - Present