Jing JIANG

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

Email: jingjiang@smu.edu.sg
Office Phone: (+65) 68280785

Education

PhD, University of Illinois, United States of America, 2008

Master of Computing, Stanford University, United States of America, 2003

Bachelor of Computing, Stanford University, United States of America, 2002

Academic Appointments

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

Associate Professor of Computer Science, School of Computing and Information Systems, SMU, Apr 2021 - Jun 2021

Associate Professor of Information Systems, School of Computing and Information Systems, SMU, Jul 2016 - Mar 2021

Assistant Professor of Information Systems, School of Computing and Information Systems, SMU, Jul 2008 - Jun 2016

Academic Administrative Positions

Director, Artificial Intelligence & Data Science Cluster, School of Computing and Information Systems, SMU, Jul 2021 - Present

Deputy Director, Living Analytics Research Centre (LARC), Living Analytics Research Centre, SMU, Jul 2018 - Jun 2021

RESEARCH

Research Interests

Natural Language Processing
Text Mining
Data Mining
Machine Learning

Publications

Journal Articles [Refereed]

Complex Knowledge Base Question Answering: A Survey, by LAN, Yunshi; HE, Gaole; JIANG, Jinhao; JIANG, Jing; XIN, Zhao Wayne; WEN, Ji Rong. (2023). *IEEE Transactions on Knowledge and Data Engineering, 35* (11), 1-20. https://doi.org/10.1109/TKDE.2022.3223858 (Advance Online)

A BERT-Based Two-Stage Model for Chinese Chengyu Recommendation, by TAN, Minghuan; JIANG, Jing; DAI, Bing Tian. (2021). *ACM Transactions on Asian and Low-Resource Language Information Processing, 20* (6), 1-18. https://doi.org/10.1145/3453185 (Published)

Entity-Sensitive Attention and Fusion Network for Entity-Level Multimodal Sentiment Classification, by YU, Jianfei; JIANG, Jing, XIA, Rui. (2020). *IEEE/ACM Transactions on Audio, Speech and Language Processing, 28* 429-439. (Published)

Knowledge Base Question Answering With a Matching-Aggregation Model and Question-Specific Contextual Relations, by LAN, Yunshi; WANG, Shuohang; JIANG, Jing. (2019). *IEEE/ACM Transactions on Audio, Speech and Language Processing, 27* (10), 1629-1638. https://doi.org/10.1109/TASLP.2019.2926125 (Published)

Topical Co-Attention Networks for hashtag recommendation on microblogs, by LI, Yang; LIU, Ting; HU, Jingwen; JIANG, Jing. (2019). *Neurocomputing, 331* 356-365. https://doi.org/10.1016/j.neucom.2018.11.057 (Published)

Global Inference for Aspect and Opinion Terms Co-Extraction Based on Multi-Task Neural Networks, by YU, Jianfei; JIANG, Jing; XIA, Rui. (2019). *IEEE/ACM Transactions on Audio, Speech and Language Processing, 27* (1), 168-177. https://doi.org/10.1109/TASLP.2018.2875170 (Published)

Detecting Personal Intake of Medicine from Twitter, by MAHATA, Debanjan; FRIEDRICHS, Jasper; SHAH, Rajiv Ratn; JIANG, Jing. (2018). *IEEE Intelligent Systems, 33* (4), 87-95. https://doi.org/10.1109/MIS.2018.043741326 (Published)

Personalized Microtopic Recommendation on Microblogs, by LI, Yang; JIANG, Jing; LIU, Ting; QIU, Minghui; SUN, Xiaofei. (2017). *ACM Transactions on Intelligent Systems and Technology, 8* (6), 1-21. https://doi.org/10.1145/2932192 (Published)

Inferring User Consumption Preferences from Social Media, by LI, Yang; JIANG, Jing; LIU, Ting. (2017). *IEICE Transactions on Information and Systems, E100D* (3), 537-545. https://doi.org/10.1587/transinf.2016EDP7265 (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)

Automatically building templates for entity summary construction, by LI, Peng; WANG, Yinglin; JIANG, Jing. (2013). *Information Processing and Management, 49* (1), 330-340. https://doi.org/10.1016/j.ipm.2012.03.006 (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)

BeeSpace Navigator: exploratory analysis of gene function using semantic indexing of biological literature, by Sarma, Moushumi Sen; Arcoleo, David; Khetani, Radhika S.; CHEE, Brant; Ling, Xu; He, Xin; JIANG, Jing; MEI, Qiaozhu; ZHAI, ChengXiang; Schatz, Bruce. (2011). *Nucleic Acids Research, 39* (Suppl 2), w462-w469. http://dx.doi.org/10.1093/nar/gkr285 (Published)

Generating gene summaries from biomedical literature: A study of semi-structured summarization, by LING, Xu; JIANG, Jing; HE, Xin; MEI, Qiaozhu; ZHAI, Chengxiang; SCHATZ, Bruce. (2007). *Information Processing and Management, 43* (6), 1777-1791. http://dx.doi.org/10.1016/j.ipm.2007.01.018 (Published)

An empirical study of tokenization strategies for biomedical information retrieval, by JIANG, Jing; ZHAI, ChengXiang. (2007). *Information Retrieval, 10* (4-5), 341-363. http://dx.doi.org/10.1007/s10791-007-9027-7 (Published)

Extraction of coherent relevant passages using hidden Markov models, by JIANG, Jing; ZHAI, ChengXiang. (2006). *ACM Transactions on Information Systems, 24* (3), 295-319.

https://doi.org/10.1145/1165774.1165775 (Published)

Book Chapters

Engagingness and responsiveness behavior models on the Enron email network and its application to email reply order prediction, by ON, Byung-Won; LIM, Ee Peng; JIANG, Jing; TEOW, Loo Nin. (2013). In Özyer, Tansel; Rokne, Jon; Wagner, Gerhard; Reuser, Arno H.P. (Ed.), *The Influence of Technology on Social Network Analysis and Mining* (pp. 227-253) New York: Springer Verlag. http://doi.org/10.1007/978-3-7091-1346-2_10 (Published)

Information Extraction from Text, by JIANG, Jing. (2012). In Aggarwal, Charu C.; Zhai, Cheng-Xiang (Ed.), *Mining Text Data* (pp. 11-41) New York: Springer Verlag. http://dx.doi.org/10.1007/978-1-4614-3223-4_2 (Published)

Conference Proceedings

ROME: Evaluating pre-trained vision-language models on reasoning beyond visual common sense, by ZHOU, Kankan; LAI, Eason; AU YEONG, Wei Bin; MOURATIDIS, Kyriakos; JIANG, Jing. (2023.0). *Findings of the Association for Computational Linguistics: EMNLP 2023, Singapore, December 6-10,* (pp. 10185-10197) Singapore: Association for Computational Linguistics. https://aclanthology.org/2023.findings-emnlp.683/ (Published)

Pro-Cap: Leveraging a frozen vision-language model for hateful meme detection, by CAO, Rui; HEE, Ming Shan; KUEK, Adriel; CHONG, Wen-Haw; LEE, Roy Ka-Wei; JIANG, Jing. (2023.0). *MM '23: Proceedings of the 31st ACM International Conference on Multimedia, Ottawa, October 29 - November 3,* (pp. 5244-5252) New York: ACM. https://doi.org/10.1145/3581783.3612498 (Published)

Modularized zero-shot VQA with pre-trained models, by CAO, Rui; JIANG, Jing. (2023.0). *Findings of the Association for Computational Linguistics: ACL 2023, Toronto, Canada, 2023 July 9-14,* (pp. 58-76) Texas, USA: Association for Computational Linguistics. https://10.18653/v1/2023.findings-acl.5 (Published)

Interventional training for out-of-distribution natural language understanding, by YU, Sicheng; JIANG, Jing; ZHANG, Hao; NIU, Yulei; SUN, Qianru; BING, Lidong. (2022.0). *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing EMNLP: Abu Dhabi, December 7-11,* (pp. 11627-11638) Abu Dhabi: ACL. (Published)

Prompting for multimodal hateful meme classification, by CAO, Rui; LEE, Roy Ka-Wei; CHONG, Wen-Haw; JIANG, Jing. (2022.0). *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing EMNLP: Abu Dhabi, December 7-11,* (pp. 321-332) Abu Dhabi: ACL. (Published)

VLStereoSet: A study of stereotypical bias in pre-trained vision-language models, by ZHOU, Kankan; LAI, Eason; JIANG, Jing. (2022.0). *Proceedings of the 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing, Virtual Conference, 2022 November 21-24,* (pp. 527-538) Virtual Conference: Association for Computational Linguistics. https://aclanthology.org/2022.aacl-main.40 (Published)

ngram-OAXE: Phrase-based order-agnostic cross entropy for non-autoregressive machine translation, by DU, Cunxiao; TU, Zhaopeng; WANG, Longyue; JIANG, Jing. (2022.0). *Proceedings of the 29th International Conference on Computational Linguistics, Gyeongju, 2022 October 12-17,* (pp. 5035-5045) Gyeongju, Republic of Korea: Association for Computational Linguistics. https://aclanthology.org/2022.coling-1.446/ (Published)

Context modeling with evidence filter for multiple choice question answering, by YU, Sicheng; ZHANG, Hao; JING, Wei; JIANG, Jing. (2022.0). *ICASSP 2022: IEEE International Conference on Acoustics, Speech and Signal Processing, Singapore, May 23-27: Proceedings,* (pp. 1-6) Singapore: IEEE. https://doi.org/10.1109/ICASSP43922.2022.9747889 (Published)

Exploring and adapting Chinese GPT to pinyin input method, by TAN, Minghuan; DAI, Yong; TANG, Duyu; FENG, Zhangyin; HUANG, Guoping; JIANG, Jing; LI, Jiwei; SHI, Shuming. (2022.0). *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics, Dublin, Ireland, 2022 May 22-27* , (pp. 1899-1909) Dublin: ACL. https://doi.org/10.18653/v1/2022.acl-long.133 (Published)

An empirical study of memorization in NLP, by ZHENG, Xiaosen; JIANG, Jing. (2022.0). *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics, Dublin, Ireland, 2022 May 22 - 27,*

(pp. 6265-6278) Dublin, Ireland: https://doi.org/10.18653/v1/2022.acl-long.434 (Published)

Translate-train embracing translationese artifacts, by YU, Sicheng; SUN, Qianru; ZHANG, Hao; JIANG, Jing. (2022.0). *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics, Dublin, Ireland, 2022 May 22-27,* (pp. 362-370) Dublin, Ireland: Association for Computational Linguistics. http://doi.org/10.18653/v1/2022.acl-short.40 (Published)

VICTOR: An implicit approach to mitigate misinformation via continuous verification reading, by LO, Kuan-Chieh; DAI, Shih-Chieh; XIONG, Aiping; JIANG, Jing; KU, Lun-Wei. (2022.0). *WWW 2022: Proceedings of the ACM Web Conference, Lyon, France, April 25 - 29,* (pp. 3511-3519) New York: ACM. https://doi.org/10.1145/3485447.3512246 (Published)

Disentangling hate in online memes, by LEE, Roy Ka-Wei; CAO, Rui; FAN, Ziqing; JIANG, Jing; CHONG, Wen-Haw. (2021.0). *MM '21: Proceedings of the 29th ACM International Conference on Multimedia,* (pp. 5138-5147) New York: ACM. https://doi.org/10.1145/3474085.3475625 (Published)

Learning and evaluating Chinese idiom embeddings, by TAN, Minghuan; JIANG, Jing. (2021.0). *Proceedings of the International Conference on Recent Advances in Natural Language Processing (RANLP 2021), Virtual Conference, September 1-3,* (pp. 1387-1396) Virtual Conference: Incoma Ltd. (Published)

Does BERT understand idioms? A probing-based empirical study of BERT encodings of idioms, by TAN, Minghuan; JIANG, Jing. (2021.0). *Proceedings of the International Conference on Recent Advances in Natural Language Processing (RANLP 2021), Virtual Conference, September 1-3,* (pp. 1397-1407) Virtual Conference: Incoma Ltd. (Published)

A survey on complex knowledge base question answering: Methods, challenges and solutions, by LAN, Yunshi; HE, Gaole; JIANG, Jinhao; JIANG, Jing; ZHAO, Wayne Xin; WEN, Ji-Rong. (2021.0). *Proceedings of the 30th International Joint Conference on Artificial Intelligence (IJCAI-21), Montreal, August 19-26 ,* (pp. 4483-4491) Virtual Conference: IJCAI. https://doi.org/10.24963/ijcai.2021/611 (Published)

All the wiser: Fake news intervention using user reading preferences, by LO, Kuan Chieh; DAI, Shih Chieh; XIONG, Aiping; JIANG, Jing; KU, Lun Wei. (2021.0). *WSDM '21: Proceedings of the 14th ACM International Conference on Web Search and Data Mining, March 8-12, Israel and Virtual,* (pp. 1069-1072) New York: ACM. https://doi.org/10.1145/3437963.3441696 (Published)

Modeling transitions of focal entities for conversational knowledge base question answering, by LAN, Yunshi; JIANG, Jing. (2021.0). *ACL-IJCNLP 2021: Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing, Virtual Conference, August 1-6,* (pp. 3288-3297) Virtual: ACL. https://doi.org/10.18653/v1/2021.acl-long.255 (Published)

COSY: COunterfactual SYntax for cross-lingual understanding, by YU, Sicheng; ZHANG, Hao; NIU, Yulei; SUN, Qianru; JIANG, Jing. (2021.0). *ACL-IJCNLP 2021: Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics, August 1-6,* (pp. 577-589) Online: Association for Computational Linguistics. https://doi.org/10.18653/v1/2021.acl-long.48 (Published)

Order-agnostic cross entropy for non-autoregressive machine translation, by DU, Cunxiao; TU, Zhaopeng; JIANG, Jing. (2021.0). *Proceedings of the 38th International Conference on Machine Learning, Virtual Conference, 2021 July 18-24,* (pp. 1-11) Virtual Conference: (Published)

Escape from an echo chamber, by LO, Kuan-Chieh; DAI, Shih-Chieh; XIONG, Aiping; JIANG, Jing; KU, Lun-Wei. (2021.0). *WWW '21: Companion Proceedings of the Web Conference: Ljubljana, Slovenia, April 19-23,* (pp. 713-716) New York: ACM. https://doi.org/10.1145/3442442.3458613 (Published)

Cross-topic rumor detection using topic-mixtures, by REN, Xiaoying; JIANG, Jing; KHOO, Ling Min Serena; CHIEU, Hai Leong. (2021.0). *Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics,* (pp. 1534-1538) Online: (Published)

Improving multi-hop knowledge base question answering by learning intermediate supervision signals, by HE, Gaole; LAN, Yunshi; JIANG, Jing; ZHAO, Wayne Xin; WEN, Ji Rong. (2021.0). *WSDM '21: Proceedings of the 14th ACM International Conference on Web Search and Data Mining, March 8-12, Israel and Virtual,* (pp. 553-561) New York: ACM. https://doi.org/10.1145/3437963.3441753 (Published)

A BERT-based dual embedding model for Chinese idiom prediction, by TAN, Minghuan; JIANG, Jing. (2020.0). *Proceedings of the 28th International Conference on Computational Linguistics, Virtual Conference, 2020 December 8-13,* (pp. 1312-1322) Barcelona, Spain (Online): Association for

Computational Linguistics. (Published)

Cross-thought for sentence encoder pre-training, by WANG, Shuohang; FANG, Yuwei; SUN, Siqi; GAN, Zhe; CHENG, Yu; LIU, Jingjing; JIANG, Jing. (2020.0). *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing, Virtual Conference, November 16-20,* (pp. 412-421) Virtual Conference: Association for Computational Linguistics. https://arxiv.org/pdf/2010.03652.pdf (Published)

Coupled hierarchical transformer for stance-aware rumor verification in social media conversations, by YU, Jianfei; JIANG, Jing; KHOO, Ling Min Serena; CHIEU, Hai Leong; XIA, Rui. (2020.0). *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing, Virtual Conference, November 16-20,* (pp. 1392-1401) Virtual Conference: Association for Computational Linguistics. (Published)

Improving multimodal named entity recognition via entity span detection with unified multimodal transformer, by YU, Jianfei; JIANG, Jing; YANG, Li; XIA, Rui. (2020.0). *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics,* (pp. 3342-3352) Online: Association for Computational Linguistics. https://doi.org/10.18653/v1/2020.acl-main.306 (Published)

Query graph generation for answering multi-hop complex questions from knowledge bases, by LAN, Yunshi; JIANG, Jing. (2020.0). *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics,* (pp. 969-974) Online: Association for Computational Linguistics. https://doi.org/10.18653/v1/2020.acl-main.91 (Published)

Interpretable rumor detection in microblogs by attending to user interactions, by KHOO, Ling Min Serena; CHIEU, Hai Leong; QIAN, Zhong; JIANG, Jing. (2020.0). *Proceedings of the 34th AAAI Conference on Artificial Intelligence, New York, 2020 February 7-12,* (pp. 8783-8790) New York: AAAI. https://doi.org/10.1609/aaai.v34i05.6405 (Published)

Multi-level head-wise match and aggregation in transformer for textual sequence matching, by WANG, Shuohang; LAN, Yunshi; TAY, Yi; JIANG, Jing; LIU, Jingjing. (2020.0). *Proceedings of the 34th AAAI Conference on Artificial Intelligence, New York, February 7-12,* (pp. 9209-9216) New York: AAAI. https://doi.org/10.1609/aaai.v34i05.6458 (Published)

Multi-hop knowledge base question answering with an iterative sequence matching model, by LAN, Yunshi; WANG, Shuohang; JIANG, Jing. (2019.0). *Proceedings of the IEEE International Conference on Data Mining,* Beijing, China: IEEE. https://doi.org/10.1109/ICDM.2019.00046 (Published)

Aspect and opinion aware abstractive review summarization with reinforced hard typed decoder, by TIAN, Yufei; YU, Jianfei; JIANG, Jing. (2019.0). *CIKM '19: Proceedings of the 28th ACM International Conference on Information and Knowledge Management, Beijing, November 3-7,* (pp. 2061-2064) New York: ACM. https://doi.org/10.1145/3357384.3358142 (Published)

Adapting BERT for target-oriented multimodal sentiment classification, by YU, Jianfei; JIANG, Jing. (2019.0). *Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence, Macao, August 10-16,* (pp. 5408-5414) Palo Alto, CA: IJCAI. https://doi.org/10.24963/ijcai.2019/751 (Published)

Knowledge base question answering with topic units, by LAN, Yunshi; WANG, Shuohang; JIANG, Jing. (2019.0). *Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence,* (pp. 5046-5052) Macao, China: https://doi.org/10.24963/ijcai.2019/701 (Published)

Unsupervised deep structured semantic models for commonsense reasoning, by WANG, Shuohang; ZHANG, Sheng; SHEN, Yelong; LIU, Xiaodong; LIU, Jingjing; GAO, Jianfeng; JIANG, Jing. (2019.0). *Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Minneapolis, MN, June 2-7,* (pp. 882-891) S: ACL. (Published)

Improving multi-label emotion classification via sentiment classification with dual attention transfer network, by YU, Jianfei; MARUJO, Luis; JIANG, Jing; KARUTURI, Pradeep; BRENDEL, William. (2018.0). *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing: Brussels, Belgium, October 31 - November 4,* (pp. 1097-1102) New Brunswick, NJ: ACL. (Published)

Embedding WordNet knowledge for textual entailment, by LAN, Yunshi; JIANG, Jing. (2018.0). *Proceedings of the 27th International Conference on Computational Linguistics: Santa Fe, New Mexico, August 20-26,* (pp. 270-281) New Brunswick, NJ: ACL. (Published)

A co-matching model for multi-choice reading comprehension, by WANG, Shuohang; YU, Mo; CHANG, Shiyu; JIANG, Jing. (2018.0). *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics, Melbourne, Australia, 2018 July 15-20,* Melbourne, Australia: (Published)

Evidence aggregation for answer re-ranking in open-domain question answering, by WANG, Shuohang; YU, Mo; JIANG, Jing; ZHANG, Wei; GUO, Xiaoxiao; CHANG, Shiyu; WANG, Zhiguo; KLINGER, Tim; TESAURO, Gerald; CAMPBELL, Murray. (2018.0). *Proceedings of the 6th International Conference on Learning Representation, Vancouver, Canada, 2018 April 30 - May 3,* (pp. 1-14) Vancouver, Canada: (Published)

An LSTM model for cloze-style machine comprehension, by WANG, Shuohang; JIANG, Jing. (2018.0). *Proceedings of Computational Linguistics and Intelligent Text Processing: 19th International Conference, CICLing 2018, Hanoi, Vietnam, March 18-24,* (pp. 1-15) Hanoi, Vietnam: Springer. (Published)

Modelling domain relationships for transfer learning on retrieval-based question answering systems in e-commerce, by YU, Jianfei; QIU, Minghui; JIANG, Jing; HUANG, Jun; SONG, Shuangyong; CHU, Wei; CHEN, Haiqing. (2018.0). *WSDM '18: Proceedings of the 11th ACM International Conference on Web Search and Data Mining, Marina Del Rey, CA, February 5-9,* (pp. 682-690) New York: ACM. https://doi.org/10.1145/3159652.3159685 (Published)

R3: Reinforced Ranker-Reader for open-domain question answering, by WANG, Shuohang; YU, Mo; GUO, Xiaoxiao; WANG, Zhiguo; KLINGER, Tim; ZHANG, Wei; CHANG, Shiyu; TESAURO, Gerald; ZHOU, Bowen; JIANG, Jing. (2018.0). *Proceedings of the Thirty-Second AAAI Conference on Artificial Intelligence, Palo Alto, CA, 2018 February 2-7,* (pp. 5981-5988) Palo Alto, CA: AAAI Press. (Published)

Leveraging auxiliary tasks for document-level cross-domain sentiment classification, by YU, Jianfei; JIANG, Jing. (2017.0). *Proceedings of the 8th International Joint Conference on Natural Language Processing, Taipei, Taiwan, 2017 November 27 - December 1,* (pp. 654-663) Stroudsburg, PA: ACL. (Published)

Can syntax help? Improving an LSTM-based Sentence Compression Model for New Domains, by WANG, Liangguo; JIANG, Jing; CHIEU, Hai Leong; ONG, Chen Hui; SONG, Dandan; LIAO, Lejian. (2017.0). *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics, Vancouver, Canada, 2017 July 30 - August 4,* (pp. 1385-1393) Vancouver, Canada: (Published)

A neural network model for semi-supervised review aspect identification, by DING, Ying; YU, Changlong; JIANG, Jing. (2017.0). *Advances in knowledge discovery and data mining: 21st Pacific-Asia Conference, PAKDD 2017, Jeju, South Korea, May 23-26, Proceedings,* (pp. 668-680) Cham: Springer. https://doi.org/10.1007/978-3-319-57529-2_52 (Published)

Machine comprehension using match-LSTM and answer pointer, by WANG, Shuohang; JIANG, Jing. (2017.0). *ICLR 2017: International Conference on Learning Representations, Toulon, France, April 24-26: Proceedings,* (pp. 1-15) Amherst, MA: ICLR. https://openreview.net/pdf?id=B1-q5Pqxl (Published)

A compare-aggregate model for matching text sequences, by WANG, Shuohang; JIANG, Jing. (2017.0). *ICLR 2017: International Conference on Learning Representations, Toulon, France, April 24-26: Proceedings,* (pp. 1-11) Amherst, MA: ICLR. (Published)

Recurrent neural networks with auxiliary labels for cross-domain opinion target extraction, by DING, Ying; YU, Jianfei; JIANG, Jing. (2017.0). *Proceedings of the 31st AAAI Conference on Artificial Intelligence: San Francisco, CA, 2017 February 4-9,* (pp. 3436-3442) Menlo Park, CA: AAAI Press. (Published)

Pairwise relation classification with mirror instances and a combined convolutional neural network, by YU, Jianfei; JIANG, Jing. (2016.0). *Proceedings of COLING 2016: The 26th International Conference on Computational Linguistics: Osaka, Japan, December 11-17,* (pp. 2373-2377) Stroudsburg, PA: Association for Computational Linguistics. (Published)

Hashtag recommendation with topical attention-based LSTM, by LI, Yang; LIU, Ting; JIANG, Jing; ZHANG, Liang. (2016.0). *Proceedings of the 26th International Conference on Computational Linguistics: Osaka, Japan, 2016 December 11-16,* (pp. 943-952) Osaka, Japan: Coling. http://coling2016.anlp.jp/doc/main.pdf (Published)

Learning sentence embeddings with auxiliary tasks for cross-domain sentiment classification, by YU, Jianfei; JIANG, Jing. (2016.0). *EMNLP 2016: Proceedings of the Conference on Empirical Methods in Natural Language Processing: Austin, Texas, November 1-5,* (pp. 236-246) Stroudsburg, PA: Association for Computational Linguistics. (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)

Learning natural language inference with LSTM, by WANG, Shuohang; JIANG, Jing. (2016.0). *NAACL HLT 2016: Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies: San Diego, California, June 12-17,* (pp. 1442-1451) Stroudsburg, PA: ACL. (Published)

SLR: A scalable latent role model for attribute completion and tie prediction in social networks, by LIAO, Lizi; HO, Qirong; JIANG, Jing; LIM, Ee Peng. (2016.0). *2016 IEEE 32nd International Conference on Data Engineering (ICDE),* (pp. 1062-1073) Helsinki: IEEE. https://doi.org/10.1109/ICDE.2016.7498313 (Published)

Modeling social media content with word vectors for recommendation, by DING, Ying; JIANG, Jing. (2015.0). *Social Informatics: 7th International Conference, SocInfo 2015, Beijing, China, December 9-12, 2015, Proceedings,* (pp. 274-288) Cham: Springer. https://doi.org/10.1007/978-3-319-27433-1_19 (Published)

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Unleashing the Power of Pre-trained Models for VisualQA: A Skill-based Framework, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE) , PI (Project Level): Jing JIANG , Co-PI (Project Level): NGO Chong Wah, 2023, S$656,253

ProExpan: Proactive Ontology Expansion for Conversational Agents, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE) , PI (Project Level): LIAO Lizi , Co-PI (Project Level): Jing JIANG, 2023, S$729,963

Investigating the Psychology of Consumer–AI Interaction for the Design and Development of AI-based Products and Services, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE) , PI (Project Level): Hannah H. CHANG , Co-PI (Project Level): Michelle P LEE, 2022, S$388,297

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

Text Style Transfer with Pre-Trained Language Models, DSO National Laboratories , PI (Project Level): Jing JIANG, 2022, S$325,066

PERFLEXO: a PERsonalized, FLExible, and controlled Output-size framework for multi-objective preference queries in large databases, Academic Research Fund (AcRF) Tier 2, Ministry of Education (MOE) , PI (Project Level): Kyriakos MOURATIDIS, 2021, S$596,687

Viola.AI, AI Singapore 100 Experiments, AI Singapore , PI (Project Level): Paulin Tay STRAUGHAN , Co-PI (Project Level): Jing JIANG, 2018, S$521,536

Characterizing and Identifying Misinformation From The Web, DSO National Laboratories , PI (Project

Level): Jing JIANG, 2018, S$497,900

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

Automatically Generating Slides from Documents, DSO National Laboratories , PI (Project Level): Jing JIANG, 2016, S$99,518.9

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

Towards A Template Independent Information Extraction System (TOTEM), DSO National Laboratories , PI (Project Level): Jing JIANG, 2010, S$198,000

Transfer Learning for Adaptive Relation Extraction, DSO National Laboratories , PI (Project Level): Jing JIANG, S$198,000

Multi-modal, Real-time Comprehension for Interactive Intelligent Human-Agent Interaction, SMU Internal Grant, Ministry of Education (MOE) Tier 1 , PI (Project Level): Jing JIANG , Co-PI (Project Level): Archan MISRA, HARA, Kotaro, 2019, S$499,750

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

Other Institutions

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

TEACHING

Courses Taught

Singapore Management University

Undergraduate Programmes :

   Introduction to Programming

Postgraduate Professional Programmes :

Capstone Project - Data Science and Engineering

Empirical Research Project 1

Text Analytics and Applications

Postgraduate Research Programmes :

Empirical Research Project 1

Empirical Research Project 2

Empirical Research Project 3

Empirical Research Project 4

THESES AND DISSERTATIONS

Theses and Dissertations Supervised

Singapore Management University

Supervisor, "Aspect Discovery from Product Reviews", Dissertation by DING YING, PhD in Information Systems, Singapore Management University, 2017

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

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

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

Theses and Dissertations Assessed

Singapore Management University

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

Committee Member, "Social Software Development: Insights and Solutions", Dissertation by ABHISHEK SHARMA, PhD in Information Systems, Singapore Management University, 2019

Committee Member, "Comparison Mining from Text", Dissertation by Maksim TKACHENKO, PhD in Information Systems, Singapore Management University, 2018

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

Committee Member, "Scalable Online Kernel Learning", Dissertation by LU JING, PhD in Information Systems, Singapore Management University, 2018

Committee Member, "Mining Diverse Consumer Preferences for Bundling and Recommendation", Dissertation by DO HA LOC, PhD in Information Systems, Singapore Management University, 2017

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, "Mining Bug Repositories for Automatic Software Bug Management: From Bug Triaging to Patch Backporting", Dissertation by TIAN YUAN, PhD in Information Systems, Singapore Management University, 2017

Committee Member, "Probabilistic Models for Semantic Visualization and its Applications", Dissertation by LE VAN MINH TUAN, PhD in Information Systems, Singapore Management University, 2017

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

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

Committee Member, "The Valuation of User-Generated Content: A Structural, Stylistic and Semantic Analysis of Online Reviews", Dissertation by KOH NOI SIAN, PhD in Information Systems, Singapore Management University, 2011

EXTERNAL SERVICE – PROFESSIONAL

Chairperson, Conference Chair, The SIGNLL Conference on Computational Natural Language Learning, 2023

Chairperson, Senior Area Chair, The 60th Annual Meeting of the Association for Computational Linguistics, 2022

Chairperson, Senior Area Chair, The 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing, 2022 - Present

Tutorial Chair, The 2021 Conference on Empirical Methods in Natural Language Processing, 2021

Chairperson, Area Chair, The 2021 Conference on Empirical Methods in Natural Language Processing, 2021 - Present

Conference Chair, The 2020 Singapore Symposium on Natural Language Processing, 2020

Committee Chair, Program Committee, 2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing, 2019 - 2020

Editor Associate Editor, Neurocomputing, 2018 - 2021

Editor Journal Editor, Action Editor, Transactions of the Association for Computational Linguistics, 2018 - Present

Editorial Review Board Member, Journal of the Association for Information Science and Technology (JASIST), 2018 - 2020

Committee Chair, Program Committee, The Asia Information Retrieval Societies Conference (AIRS'18), 2018

Editor Associate Editor, ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), 2017 - 2019

Committee Chair, Program Committee, The 6th Conference on Natural Language Processing and Chinese Computing (NLPCC'17), 2017

Editorial Review Board Member, Information Processing & Management (IP&M), Elsevier, 2016 - 2018

Editorial Review Board Member, Computational Linguistics, 2015 - 2017

Chairperson, Area Chair, Annual Meeting of the Association for Computational Linguistics, 2015 - 2018

Committee Chair, Publication Committee, International Joint Conference on Natural Language Processing (IJCNLP'13), 2013

Committee Chair, Local Arrangement Committee, The 4th Asian Conference on Machine Learning (ACML'12), 2012

Committee Member, Program Committee, Annual Meeting of the Association for Computational Linguistics, 2009 - 2014

Committee Member, Program Committee, EMNLP'08, COLING'08, SIGIR'08, AIRS'08, NLDB'08, ACL'09, SIGIR'09, CIKM'09, ACL'10, EMNLP'10, SIGIR'10, SIGKDD'10, COLING'10, AISTATS'10, ACL'11, IJCAI'11, AAAI'11, WWW'11, SIGIR'11, CIKM'11, ACL'12, AAAI'12, WWW'12, EMNLP-CoNLL'12, NAACL'12, SIGIR'12, EACL'12, COLING'12, ACL'13, EMNLP'13, SIGIR'13, WSDM'13, ACL'14, EMNLP'14, SIGIR'14, WSDM'14, COLING'14, NAACL'15, EMNLP'15, WWW'15, SIGIR'15, AAAI'16, IJCAI'16, EMNLP'16, COLING'16, NAACL'16, AAAI'17, EMNLP'17, IJCNLP'17, IJCAI'18, EMNLP'18, NAACL'18, COLING'18, AAAI'19, ACL'20, EMNLP'20, COLING'20, AAAI'21, IJCAI'21, 2008 - Present