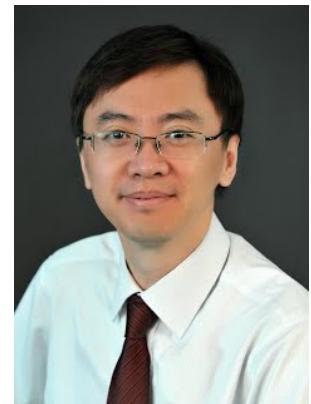# Wei GAO

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Education

PhD, Chinese University of Hong Kong, 2010

MPhil, Chinese University of Hong Kong, 2004

Bachelor of Engineering, Beijing Info Science & Technology University, China, 1996

Academic Appointments

Associate Professor of Computer Science, School of Computing and Information Systems, SMU, Jul 2024 - Present

Assistant Professor of Computer Science, School of Computing and Information Systems, SMU, Apr 2021 - Jun 2024

Assistant Professor of Information Systems, School of Computing and Information Systems, SMU, Dec 2019 - Mar 2021

RESEARCH

Research and Project Areas

Natural Language Processing and Text Mining
Social Network Analysis and Mining
Information Retrieval
Artificial Intelligence

Publications

Journal Articles [Refereed]

EXPLAINHM++: Explainable harmful meme detection with retrieval-augmented debate between large multimodal models, by LIN, Hongzhan; GAO, Wei; MA, Jing; DENG, Yang; LUO, Ziyang; WANG, Bo; YANG, Ruichao; CHUA, Tat-Seng. (2025). *IEEE Transactions on Knowledge and Data Engineering,* 1-14. https://doi.org/10.1109/TKDE.2025.3637552 (Advance Online)

LLM-enhanced multiple instance learning for joint rumor and stance detection with social context information, by YANG, Ruichao; MA, Jing; GAO, Wei; LIN, Hongzhan. (2025). *ACM Transactions on Intelligent Systems and Technology, 16* (2), 1-27. https://dl.acm.org/doi/pdf/10.1145/3716856 (Published)

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Predicting viral rumors and vulnerable users with graph-based neural multi-task learning for infodemic surveillance, by ZHANG, Xuan; GAO, Wei. (2024). *Information Processing and Management, 61* (1), 1-18. https://doi.org/10.1016/j.ipm.2023.103520 (Published)

Improving rumor detection by promoting information campaigns with transformer-based generative adversarial learning, by MA, Jing; LI, Jun; GAO, Wei; YANG, Yang; WONG, Kam-Fai. (2023). *IEEE Transactions on Knowledge and Data Engineering, 35* (3), 2657-2670. https://doi.org/10.1109/TKDE.2021.3112497 (Published)

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An Attention-based Rumor Detection Model with Tree-structured Recursive Neural Networks, by MA, Jing; GAO, Wei; JOTY, Shafiq; WONG, Kam-Fai. (2020). *ACM Transactions on Intelligent Systems and Technology, 11* (4), 1-28. https://doi.org/10.1145/3391250 (Published)

Detecting Fake News in Social Media: An Asia-Pacific Perspective, by CHA, Meeyoung; GAO, Wei; LI, Cheng-Te. (2020). *Communications of the ACM, 63* (4), 68-71. https://doi.org/10.1145/3378422 (Published)

Utilizing computational trust to identify rumor spreaders on Twitter, by RATH, Bhavtosh; GAO, Wei; MA, Jing; SRIVASTAVA, Jaideep. (2018). *Social Network Analysis and Mining, 8* (1), 1-16. https://doi.org/10.1007/s13278-018-0540-z (Published)

From classification to quantification in tweet sentiment analysis, by GAO, Wei; SEBASTIANI, Fabrizio. (2016). *Social Network Analysis and Mining, 6* (1), 1-31. https://doi.org/10.1007/s13278-016-0327-z (Published)

Information-Theoretic Multi-view Domain Adaptation: A Theoretical and Empirical Study, by YANG, Pei; GAO, Wei. (2014). *Journal of Artificial Intelligence Research, 49* 501-525. https://doi.org/10.1613/jair.4190 (Published)

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A link-bridged topic model for cross-domain document classification, by YANG, Pei; GAO, Wei; TAN, Qi; WONG, Kam-Fai. (2013). *Information Processing and Management, 49* (6), 1181-1193. https://doi.org/10.1016/j.ipm.2013.05.002 (Published)

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Editorials

Guest Editorial Computational Social Systems for COVID-19 Emergency Management and Beyond, by ZHANG, Jun Jason; WANG, Fei-Yue; YUAN, Yong; XU, Guandong; LIU, Huan; GAO, Wei; JAMEEL, Shoaib; RAZZAK, Imran; EKLUND, Peter; AHMED, Sheraz; QIN, Rui; LI, Juanjuan; WANG, Xiao; YANG, De-Nian; TURGUT, Damla; BENSLIMANE, Abderrahim; PRASAD, Neeli; CHEN, Kwang-Cheng. (2021). *IEEE Transactions on Computational Social Systems,* 8 (4), 928 -929. http://doi.org/10.1109/TCSS.2021.3095472 (Published)

Book Chapters

Detecting semantic uncertainty by learning hedge cues in sentences using an HMM, by LI, Xiujun; GAO, Wei; SHAVLIK, Jude. (2017). In Kam-Fai Wong, Wei Gao, Ruifeng Xu, Wenjie Li (Ed.), *Social media content analysis: Natural language processing and beyond* World Scientific Publishing. https://doi.org/10.1142/9789813223615_0008 (Published)

Cross-language mining and retrieval, by GAO, Wei; NIU, Cheng. (2017). In LIU, Ling; OZSU, Tamer (Ed.), *Encyclopedia of Database Systems* (pp. 523-528) US: Springer. https://doi.org/10.1007/978-1-4899-7993-3_89-3 (Published)

Edited Books

Social media content analysis: Natural language processing and beyond, edited by WONG, Kam-Fai; GAO, Wei; XU, Ruifeng; LI, Wenjie. (2017). World Scientific Publishing. https://doi.org/10.1142/10535 (Published)

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Explainable ethical assessment on human behaviors by generating conflicting social norms, by SUN, Yuxi; GAO, Wei; LIN, Hongzhan; MA, Jing; ZHANG, Wenxuan. (2025.0). *Proceedings of the 14th International Joint Conference on Natural Language Processing (IJCNLP) and The 4th Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (AACL), Mumbai, India, 2025 December 20-24,* (pp. 1-19) Mumbai, India: https://doi.org/10.48550/arXiv.2512.15793 (Published)

CausalAbstain: Enhancing multilingual LLMs with causal reasoning for trustworthy abstention, by SUN, Yuxi; ZUO, Aoqi; GAO, Wei; MA, Jing. (2025.0). *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL 2025), Vienna, Austria, July 27 - August 1,* (pp. 14060-14076) Vienna, Austria: https://aclanthology.org/2025.findings-acl.723/ (Published)

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Multimodal misinformation detection by learning from synthetic data with multimodal LLMs, by ZENG, Fengzhu; LI, Wenqian; GAO, Wei; PANG, Yan. (2024.0). *Findings of the Association for Computational Linguistics: EMNLP 2024, Miami, Florida, November 12-16,* (pp. 10467-10484) USA: https://doi.org/10.18653/v1/2024.findings-emnlp.613 (Published)

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Reinforcement tuning for detecting stances and debunking rumors jointly with large language models, by YANG, Ruichao; GAO, Wei; MA, Jing; LING, Hongzhan; WANG, Bo. (2024.0). *Findings of the Association for Computational Linguistics: ACL 2024, Bangkok, Thailand, August 11-16,* (pp. 13423-13439) USA: https://doi.org/10.18653/v1/2024.findings-acl.796 (Published)

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Towards explainable harmful meme detection through multimodal debate between Large Language Models, by LIN, Hongzhan; LUO, Ziyang; GAO, Wei; MA, Jing; WANG, Bo; YANG, Ruichao. (2024.0). *WWW '24: Proceedings of the ACM Web Conference 2024, Singapore, May 13-17,* (pp. 2359-2370) New York: ACM. https://doi.org/10.1145/3589334.3645381 (Published)

WSDMS: Debunk fake news via weakly supervised detection of misinforming sentences with contextualized social wisdom, by YANG, Ruichao; GAO, Wei; MA, Jing; LIN, Hongzhan; YANG, Zhiwei. (2023.0). *2023 Conference on Empirical Methods in Natural Language Processing: Singapore, December 6-10: Proceedings,* (pp. 1525-1538) Stroudsburg, PA: Association for Computational Linguistics. https://doi.org/10.18653/v1/2023.emnlp-main.94 (Published)

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Prompt to be consistent is better than self-consistent? Few-shot and zero-shot fact verification with pre-trained language models, by ZENG, Fengzhu; GAO, Wei. (2023.0). *Findings of the Association for Computational Linguistics: ACL 2023,* (pp. 4555-4569) USA: Association for Computational Linguistics. https://doi.org/10.18653/v1/2023.findings-acl.278 (Published)

Wearing masks implies refuting Trump?: Towards target-specific user stance prediction across events in COVID-19 and US Election 2020, by ZHANG, Hong; KWAK, Haewoon; GAO, Wei; AN, Jisun. (2023.0). *Proceedings of the 15th ACM Web Science Conference 2023,* (pp. 23-32) New York, NY, United States: ACM. (Published)

DialogConv: A lightweight fully convolutional network for multi-view response selection, by LIU, Yongkang; FENG, Shi; GAO, Wei; WANG, Daling; ZHANG, Yifei. (2022.0). *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing EMNLP: Abu Dhabi, December 7–11*, (pp. 12086-12-98) Abu Dhabi: ACL. https://doi.org/10.48550/arXiv.2210.13845 (Published)

Early rumor detection using neural Hawkes process with a new benchmark dataset, by ZENG, Fengzhu; GAO, Wei. (2022.0). *Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Seattle, United States, July 10-15,* (pp. 4105-4117) Seattle, United States: Association for Computational Linguistics. (Published)

A weakly supervised propagation model for rumor verification and stance detection with multiple instance learning, by YANG, Ruichao; MA, Jing; LIN, Hongzhan; GAO, Wei. (2022.0). *SIGIR '22: Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval,*

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Madrid, Spain, July 11-15, (pp. 1761-1772) New York: ACM. https://doi.org/10.1145/3477495.3531930 (Published)

Early prediction of hate speech propagation, by LIN, Ken-Yu; LEE, Roy Ka-Wei; GAO, Wei; PENG, Wen-Chih. (2021.0). *Proceedings of International Workshop on Intelligence-Augmented Anomaly Analytics, Virtual, 2021 December 7*
, New York: IEEE. (Published)

Span-level emotion cause analysis with neural sequence tagging, by LI, Xiangju; GAO, Wei; FENG, Shi; WANG, Daling; JOTY, Shafiq. (2021.0). *CIKM '21: Proceedings of the 30th ACM International Conference on Information and Knowledge Management, Virtual, November 1-5,* (pp. 3227-3231) New York: ACM. https://doi.org/10.1145/3459637.3482186 (Published)

Span-level emotion cause analysis by BERT-based graph attention network, by LI, Xiangju; GAO, Wei; FENG, Shi; WANG, Daling; Joty, Shafiq. (2021.0). *CIKM '21: Proceedings of the 30th ACM International Conference on Information & Knowledge Management, Virtual Conference, November 1-5,* (pp. 3221-3226) New York, USA: ACM. https://doi.org/10.1145/3459637.3482185 (Published)

Adaptive posterior knowledge selection for improving knowledge-grounded dialogue generation, by WANG, Weichao; GAO, Wei; FENG, Shi; CHEN, Ling; WANG, Daling. (2021.0). *CIKM '21: Proceedings of the 30th ACM International Conference on Information and Knowledge Management, Virtual, November 1-5,* (pp. 1989-1998) New York: ACM. https://doi.org/10.1145/3459637.3482314 (Published)

Boundary detection with BERT for span-level emotion cause analysis, by LI, Xiangju; GAO, Wei; FENG, Shi; ZHANG, Yifei; WANG, Daling. (2021.0). *Findings of the Association for Computational Linguistics,* (pp. 676-682) USA: Association for Computational Linguistics. http://doi.org/10.18653/v1/2021.findings-acl.60 (Published)

Evidence aware neural pornographic text identification for child protection, by SONG, Kaisong; KANG, Yangyang; GAO, Wei; GAO, Zhe; SUN, Changlong; LIU, Xiaozhong. (2021.0). *Proceedings of the Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI 2021): February 2-9, Virtual,* (pp. 14939-14947) Palo Alto, CA: AAAI Press. https://ojs.aaai.org/index.php/AAAI/article/view/17753 (Published)

Debunking rumors on Twitter with tree transformer, by MA, Jing; GAO, Wei. (2020.0). *Proceedings of the 28th International Conference on Computational Linguistics (COLING 2020),* (pp. 5455-5466) New York: ACL. (Published)

A cue adaptive decoder for controllable neural response generation, by WANG, Weichao; FENG, Shi; GAO, Wei; WANG, Daling; ZHANG, Yifei. (2020.0). *WWW '20: Proceedings of The Web Conference 2020, Taipei, Taiwan, April 20-24,* (pp. 2570-2576) Taipei, Taiwan: https://doi.org/10.1145/3366423.3380008 (Published)

Using customer service dialogues for satisfaction analysis with context-assisted multiple instance learning, by SONG, Kaisong; BING, Lidong; GAO, Wei; LIN, Jun; ZHAO, Lujun; WANG, Jiancheng; SUN, Changlong; LIU, Xiaozhong; ZHANG, Qiong. (2019.0). *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing (EMNLP 2019),* (pp. 198-207) Hong Kong, China: https://doi.org/10.18653/v1/D19-1019 (Published)

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Cold-start aware deep memory networks for multi-entity aspect-based sentiment analysis, by SONG, Kaisong; GAO, Wei; ZHAO, Lujun, LIN, Jun; SUN, Changlong; LIU, Xiaozhong. (2019.0). *Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI 2019),* (pp. 5197-5203) Macau, China: AAAI Press. https://doi.org/10.24963/ijcai.2019/722 (Published)

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Rumor detection on Twitter with tree-structured recursive neural networks, by MA, Jing; GAO, Wei; WONG, Kam-Fai. (2018.0). *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL 2018),* (pp. 1980-1989) Melbourne, Australia: Association for Computational Linguistics. https://aclweb.org/anthology/P18-1184 (Published)

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Build emotion lexicon from the mood of crowd via topic-assisted joint non-negative matrix factorization, by SONG, Kaisong; GAO, Wei; CHEN, Ling; FENG, Shi; WANG, Daling; ZHANG, Chengqi. (2016.0). *Proceedings of the 38th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2016),* (pp. 773-776) Pisa, Italy: ACM Press. https://doi.org/10.1145/2911451.2914759 (Published)

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PerSentiment: A personalized sentiment classification system for microblog users, by SONG, Kaisong; CHEN, Ling; GAO, Wei; FENG, Shi; WANG, Daling; ZHANG, Chengqi. (2016.0). *Proceedings of the 25th International World Wide Web Conference (WWW 2016 Companion),* (pp. 255-258) Montréal, Québec, Canada: ACM Press. https://doi.org/10.1145/2872518.2890540 (Published)

Detect Rumors Using Time Series of Social Context Information on Microblogging, by MA, Jing; GAO, Wei; WEI, Zhongyu; LU, Yueming; WONG, Kam-Fai. (2018.0). *Proceedings of the 24th ACM International Conference on Information and Knowledge Management (CIKM 2015),* (pp. 1751-1754) Melbourne, Australia: ACM Press. https://doi.org/10.1145/2806416.2806607 (Published)

Using content-level structures for summarizing microblog repost trees, by LI, Jing; WEI, Gao; WEI, Zhongyu; PENG, Baolin; WONG, Kam-Fai. (2015.0). *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing, Lisbon, Portugal, September 17-21*
, (pp. 2168-2178) New York: Association for Computational Linguistics.
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Build Emotion Lexicon from Microblogs by Combining Effects of Seed Words and Emoticons in a Heterogeneous Graph, by SONG, Kaisong; FENG, Shi; GAO, Wei; WANG, Daling; CHEN, Ling; ZHANG, Chengqi. (2018.0). *Proceedings of the 26th ACM Conference on Hypertext and Social Media (Hypertext 2015),* (pp. 283-292) Guzelyurt, North Cyprus: ACM Press. https://doi.org/10.1145/2700171.2791035 (Published)

Tweet sentiment: From classification to quantification, by GAO, Wei; SEBASTIANI, Fabrizio. (2015.0). *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2015),* (pp. 97-104) Paris, France: ACM Press. https://doi.org/10.1145/2808797.2809327 (Published)

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Using tweets to help sentence compression for news highlights generation, by WEI, Zhongyu; LIU, Yang; LI, Chen; GAO, Wei. (2015.0). *Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL 2015),* (pp. 50-56) Beijing, China: Association for Computational Linguistics. https://doi.org/10.3115/v1/P15-2009 (Published)

QCRI: Answer selection for community question answering - Experiment for Arabic and English, by NICOSIA, Massimo; FILICE, Simone; BARRON-CEDENO, Alberto; SALEH, Iman; MUBARAK, Hamdy; GAO, Wei; NAKOV, Preslav; MARTINO, Giovanni Da San; MOSCHITTI, Alessandro; DARWISH, Kareem; MARQUZ, Lluis Marquz; JOTY, Shafiq; MAGDY, Walid Magdy. (2015.0). *Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval 2015),* (pp. 203-209) Denver, Colorado, USA: Association for Computational Linguistics. http://doi.org/10.18653/v1/S15-2036 (Published)

Utilizing microblogs for improving automatic news high-lights extraction, by WEI, Zhongyu; GAO, Wei. (2014.0). *Proceedings of 25th International Conference on Computational Linguistics (COLING 2014),* (pp. 872-883) Dublin, Ireland: Association for Computational Linguistics. https://aclweb.org/anthology/C14-1083 (Published)

Ranking Model Selection and Fusion for Effective Microblog Search, by WEI, Zhongyu; GAO, Wei; EL-GANAINY, Tarek; MAGDY, Walid; WONG, Kam-Fai. (2018.0). *Proceedings of SIGIR 2014 Workshop on Social Media Retrieval and Analysis (SoMeRA 2014),* (pp. 21-26) Gold Coast, Queensland, Australia: ACM Press. https://doi.org/10.1145/2632188.2632202 (Published)

Simple effective named entity recognition for microblogs: Arabic as an example, by DARWISH, Kareem; GAO, Wei. (2014.0). *Proceedings of the 9th Language Resources and Evaluation Conference (LREC 2014),* (pp. 2513-2517) Reykjavik, Iceland: The European Language Resources Association. https://aclweb.org/anthology/L14- 1192 (Published)

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Multi-view discriminant transfer learning, by YANG, Pei Yang; GAO, Wei. (2013.0). *Proceedings of 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013),* (pp. 1848-1854) Beijing, China: AAAI Press. https://www.ijcai.org/Proceedings/13/Papers/273.pdf (Published)

Main-stream media behaviour analysis on Twitter: A case study on UK general election, by WEI, Zhongyu; HE, Yulan; GAO, Wei; LI, Binyang; ZHOU, Lanjun; WONG, Kam-Fai. (2013.0). *Proceedings of the 24th ACM Conference on Hypertext and Social Media (Hypertext 2013),* (pp. 174-178) Paris, France: ACM Press. https://doi.org/10.1145/2481492.2481512 (Published)

A self-training framework for automatic identification of exploratory dialogue, by WEI, Zhongyu; HE, Yulan; SHUM, Simon; FERGUSON, Rebecca; GAO, Wei; WONG, Kam-Fai. (2013.0). *Proceedings of 14th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing 2013),* Samos, Greece: (Published)

Cross-lingual identification of ambiguous discourse connectives for resource-poor language, by ZHOU, Lanjun; GAO, Wei; LI, Binyang; WEI, Zhongyu; WONG, Kam-Fai. (2012.0). *Proceedings of 24th International Conference on Computational Linguistics (COLING 2012),* (pp. 1409-1418) Bombay, India: Association for Computational Linguistics. https://aclweb.org/anthology/C12-2138 (Published)

Microblog search and filtering with time sensitive feedback and thresholding based on BM25, by GAO, Wei; WEI, Zhongyu; WONG, Kam-Fai. (2012.0). *Proceedings of the 21st Text Retrieval Conference (TREC 2012),* Geithersburg, MD, USA: NIST Special Publication: SP 500-298. https://trec.nist.gov/pubs/trec21/papers/qcri_twitsear.micro.final.pdf (Published)

Joint Topic Modeling for Event Summarization Across News and Social Media Streams, by GAO, Wei; LI, Peng; DARWISH, Kareem. (2018.0). *Proceedings of the 21st ACM Conference on Information and Knowledge Management (CIKM 2012),* (pp. 1173-1182) Maui, Hawaii, USA: ACM Press. https://doi.org/10.1145/2396761.2398417 (Published)

Information-theoretic multi-view domain adaptation, by YANG, Pei; GAO, Wei; TAN, Qi; WONG, Kam-Fai. (2012.0). *Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics (ACL 2012),* (pp. 270-274) Jeju Island, Korea: Association for Computational Linguistics. https://www.aclweb.org/anthology/P12-2053/ (Published)

Tracking sentiment and topic dynamics from social media, by HE, Yulan; LIN, Chenghua; GAO, Wei; WONG, Kam-Fai. (2012.0). *Proceedings of the 6th International AAAI Conference on Weblogs and Social Media (ICWSM 2012),* (pp. 483-486) Dublin, Ireland: AAAI Press. https://aaai.org/ICWSM/ICWSM12/paper/view/4496 (Published)

An effective approach for topicspecific opinion summarization, by LI, Binyang; ZHOU, Lanjun; GAO, Wei; WONG, Kam-Fai; WEI, Zhongyu. (2011.0). *Proceedings of the Seventh Asian Information Retrieval Societies Conference,* (pp. 398-409) Dubai, UAE: LNCS, Springer. https://doi.org/10.1007/978-3-642-25631-8_36 (Published)

Exploring tweets normalization and query time sensitivity for Twitter search, by WEI, Zhongyu; GAO, Wei; ZHOU Lanjun; LI, Binyang; WONG, Kam-Fai. (2011.0). *Proceedings of the 20th Text REtrieval Conference (TREC 2011),* Geithersburg, MD, USA.: NIST Special Publication: SP 500-296. (Published)

Unsupervised discovery of discourse relations for eliminating intra-sentence polarity ambiguities, by ZHOU, Lanjun; LI, Binyang; GAO, Wei; WEI, Zhongyu; WONG, Kam-Fai. (2011.0). *Proceedings of the 2011 Conference on Empirical Methods in Natural Language Processing (EMNLP 2011),* (pp. 162-171) Edinburgh, Scotland, UK: Association for Computational Linguistics. https://aclweb.org/anthology/D11-1015 (Published)

Generating aspect-oriented multi-document summarization with event-aspect model, by LI, Peng; WANG, Yinglin; GAO, Wei; JIANG, Jing. (2011.0). *Proceedings of the 2011 Conference on Empirical Methods in Natural Language Processing (EMNLP 2011),* (pp. 1137-1146) Edinburgh, Scotland, UK: Association for Computational Linguistics. https://aclweb.org/anthology/D11-1105 (Published)

Relevant knowledge helps in choosing right teacher: Active query selection for ranking adaptation, by CAI, Peng; GAO, Wei; WONG, Kam-Fai; ZHOU, Aoying. (2011.0). *Proceedings of the 34th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2011),* (pp. 115-124) Beijing, China: ACM Press. https://doi.org/10.1145/2009916.2009935 (Published)

Query weighting for ranking model adaptation, by CAI, Peng; GAO, Wei; ZHOU, Aoying; WONG, Kam-Fai. (2011.0). *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics (ACL 2011),* (pp. 112-122) Portland, OR, USA: Association for Computational Linguistics. https://aclweb.org/anthology/P11-1012 (Published)

Weight-based boosting model for cross-domain relevance ranking adaptation, by CAI, Peng; GAO, Wei; WONG, Kam-Fai; ZHOU, Aoying. (2011.0). *Proceedings of the 33rd European Conference on Information Retrieval (ECIR 2011),* (pp. 562-567) Dublin, Ireland: LNCS, Springer. https://doi.org/10.1007/978-3-642-20161-5_56 (Published)

Learning to rank only using training data from related domain, by GAO, Wei; CAI, Peng; WONG, Kam-Fai; ZHOU, Aoying. (2010.0). *Proceedings of the 33rd Annual International ACM SIGIR7 Conference on Research and Development in Information Retrieval (SIGIR 2010),* (pp. 162-169) Geneva, Switzerland: ACM Press. https://doi.org/10.1145/1835449.1835478 (Published)

Exploiting bilingual information to improve web search, by GAO, Wei; BITZER,John; ZHOU, Ming; WONG, Kam-Fai. (2009.0). *Proceedings of the 47th Annual Meeting of the Association for Computational Linguistics (ACL 2019),* (pp. 1075-1083) Singapore: Association for Computational Linguistics. https://www.aclweb.org/anthology/P09-1121/ (Published)

Joint ranking for multilingual web search, by GAO, Wei; NIU, Cheng; ZHOU, Ming; WONG, Kam-Fai. (2009.0). *Proceedings of the 31st European Conference on Information Retrieval (ECIR 2009),* (pp. 114-125) Toulouse, France: LNCS, Springer. https://doi.org/10.1007/978-3-642-00958-7_13 (Published)

Using English information in Non-English web search, by GAO, Wei; BLITZER, John; ZHOU, Ming. (2008.0). *Proceedings of the ACM International Workshop on Improving Non-English Web Searching (iNEWS 2008),* (pp. 17-24) Nappa Valley, California, USA: ACM Press. https://doi.org/10.1145/1460027.1460031 (Published)

Cross-lingual query suggestion using query logs of different languages, by GAO, Wei; NIU, Cheng; NIE, Jian-Yun; ZHOU, Ming; HU, Jian; WONG, Kam-Fai; HON, Hsiao-Wuen. (2007.0). *Proceedings of the 30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2007),* (pp. 463-470) Amsterdam, The Netherlands: ACM Press. https://doi.org/10.1145/1277741.1277821 (Published)

Clique percolation for finding naturally cohesive and overlapping document clusters, by GAO, Wei; WONG, Kam-Fai; XIA, Yunqing; XU, Ruifeng. (2006.0). *Proceedings of the 21st International Conference on Computer Processing of Oriental Languages (ICCPOL 2006),* (pp. 97-108) Singapore: LNAI, Springer. https://doi.org/10.1007/11940098_10 (Published)

Natural document clustering by clique percolation in random graphs, by GAO, Wei; WONG, Kam-Fai. (2006.0). *Proceedings of the 3rd Asia Information Retrieval Symposium (AIRS 2006),* (pp. 119-131) Singapore: Springer. https://doi.org/10.1007/11880592_10 (Published)

NIL Is not nothing: Recognition of Chinese network informal language expressions, by XIA, Yunqing; WONG, Kam-Fai; GAO, Wei. (2005.0). *Proceedings of the 4th SIGHAN workshop on Chinese Language Processing (SIGHAN 2005),* (pp. 95-102) Jeju Island, Korea: Association for Computational Linguistics. https://www.aclweb.org/anthology/I05-3013.pdf (Published)

NIL is not nothing: Recognition of Chinese network informal language expressions, by XIA, Yunqing; WONG; Kam-Fai; GAO, Wei. (2005.0). *Proceedings of the 4th SIGHAN workshop on Chinese Language Processing,* Jeju Island, Korea: http://aclweb.org/anthology/I05-3013 (Published)

Improving transliteration with precise alignment of phoneme chunks and using contextual features, by GAO, Wei; WONG, Kam-Fai; LAM, Wai. (2004.0). *Proceedings of the First Asia Information Retrieval Symposium (AIRS 2004),* (pp. 106-117) Beijing, China: Springer. https://doi.org/10.1007/978-3-540-31871-2_10 (Published)

Phoneme-based transliteration of foreign names for OOV problem, by GAO, Wei; WONG, Kam-Fai; LAM, Wai. (2004.0). *Proceedings of the First International Joint Conference on Natural Language Processing*

(IJCNLP 2004), (pp. 110-119) Sanya, Hainan Island, China: Springer. https://doi.org/10.1007/978-3-540-30211-7_12 (Published)

Design issues in a Chinese financial information extraction system, by LI, Qingzhong; GAO, Wei; LI, Wenjie; WONG, Kam-Fai; YUAN, Chunfa; WANG, Yun. (2003.0). *Advances in computation of oriental languages: 20th International Conference on Computer Processing of Oriental Languages: Shenyang, China, 2003 August 4-6,* (pp. 417-423) Beijing: Tsinghua University Press. https://worldcat.org/isbn/9787302069423 (Published)

Research Grants

Singapore Management University

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

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

Characterizing User Stances for Predicting Social Polarization in Online Platforms, A*STAR-SMU Joint Lab in Social and Human-Centered Computing Grant, Singapore Management University (SMU) PI (Project Level): Wei GAO, Prasanta Bhattacharya, Co-PI (Project Level): Jisun AN, Joseph Simons, 2022, SGD101,804

Computational Inference of Attitude Strength, A*STAR-SMU Joint Lab in Social and Human-Centered Computing Grant, Singapore Management University (SMU) PI (Project Level): Jisun AN, Joseph Simons, Co-PI (Project Level): Wei GAO, Prasanta Bhattacharya, 2022, SGD62,205

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

TEACHING

Teaching Areas

Natural language processing
Social media analysis and mining
Applied machine learning

Courses Taught

Singapore Management University

Undergraduate Programmes :

    Generative AI for Natural Language Communication

IS Project Experience (Applications)

IS/SMT Project Experience (Applications)

Natural Language Communication

Social Analytics and Applications

Postgraduate Professional Programmes :

Capstone Project - Data Science and Engineering

Social Analytics and Applications

Postgraduate Research Programmes :

Empirical Research Project 1

Empirical Research Project 2

Empirical Research Project 3

Empirical Research Project 4

Generative Models for NLP and Multimodal Reasoning

THESES AND DISSERTATIONS

Theses and Dissertations Assessed

Singapore Management University

Committee Member, "Learning to Interpret Knowledge from Software Questions and Answer Sites", Dissertation by XU Bowen, PhD in Computer Science, Singapore Management University, 2017

OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES

Presentation and Talks

Invited Seminars, Talks and Lectures

Rumor Detection with Generative Adversarial Learning, 26 Jan 2022. KDD for a Safer Online Social Space, Online, Singapore

UNIVERSITY SERVICE

Singapore Management University

Committee Chair, Reading and Evaluation Committee (REC), Aug 2024 - Present

Committee Chair, School Evaluation Committee (SEC), Aug 2024 - Present

Committee Chair, Qualifying Examination Committee, Oct 2021 - Present

Committee Member, Dissertation Committee, Apr 2020 - Present

Committee Member, Qualifying Examination Committee, Apr 2020 - Present

Committee Member, Dean's Evaluation Committee, Jan 2020 - Present

EXTERNAL SERVICE – PROFESSIONAL

Editorial Review Board Member, Journal of Artificial Intelligence Research, 2025 - Present

Reviewer Conference Paper, The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2026, 2025 - Present

Area Chair, The 19th Conference of the European Chapter of the Association for Computational Linguistics, 2025 - Present

Program Committee Member, The Web Conference 2026, 2025 - Present

External Examiner, Hong Kong Baptist University, 2025 - Present

Reviewer Journal Article, IEEE Transactions on Pattern Analysis and Machine Intelligence, 2025 - Present

Senior Area Chair, The 14th International Joint Conference on Natural Language Processing (IJCNLP) and the 4th Asia-Pacific Chapter of the Association for Computational Linguistics (AACL), 2025 - Present

Senior Program Committee Member, Resource Track, The 34th ACM International Conference on Information and Knowledge Management (CIKM 2025), 2025 - Present

Reviewer Conference Paper, The 2nd Conference on Language Modeling (COLM 2025), 2025 - Present

Reviewer Grant Proposal, Natural Sciences and Engineering Research Council of Canada (NSERC) Alliance, 2024 - Present

Action Editor, Computational Linguistics, 2024 - Present

External Examiner, Queen's University, 2024 - Present

External Examiner, The University of Warwick, 2024 - Present

External Examiner, Nanyang Technological University, 2024 - Present

Action Editor, Transactions of the Association for Computational Linguistics (TACL), 2024 - Present

Area Chair, The 31st International Conference on Computational Linguistics (COLING 2025), 2024 - Present

Area Chair, The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024) , 2023 - Present

PC Chair, The 2023 Singapore Symposium on Natural Language Processing (SSNLP), 2023

Senior Area Chair, The 13th International Joint Conference on Natural Language Processing and the 3rd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics, 2023 - Present

Area Chair, The SIGNLL Conference on Computational Natural Language Learning (CoNLL), 2023

Senior Area Chair, Annual Meeting of Association for Computational Linguistics (ACL), 2022

Area Chair, The 17th Annual Meeting of the European chapter of the Association for Computational Linguistics, 2023, 2022 - 2023

Reviewer Journal Article, PLOS ONE, 2022 - Present

Senior Program Committee Member, The International AAAI Conference on Web and Social Media (ICWSM), 2022, 2022 - Present

Guest Editor, IEEE Transactions on Computational Social Systems (TCSS), 2021

Program Committee Member, The International Conference on Database Systems for Advanced Applications (DASFAA), 2021

Reviewer Journal Article, IEEE Transactions on Audio, Speech and Language Processing, 2021 - Present

Program Committee Member, ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2021

Committee Member, Thesis Advisory Committee for PhD Research Students, Nanyang Technological University, 2020 - Present

Reviewer Journal Article, IEEE Security & Privacy, 2020 - Present

Editor Associate Editor, ACM Transactions on Asian and Low-Resource Language Information Processing, 2020 - Present

Program Committee Member, The Web Conference (WWW), 2020, 2021, 2022, 2020 - Present

Program Committee Member, European Conference on Information Retrieval (ECIR), 2019, 2020

Area Co-Chair, The CCF International Conference on Natural Language Processing and Chinese Computing (NLPCC), 2015, 2018, 2019, 2020

Committee Member, PhD Thesis Defense Committee, The Chinese University of Hong Kong, 2020

Standing Review Committee Member, Computational Linguistics, 2020 - Present

Program Committee Member, AAAI Conference on Artificial Intelligence (AAAI), 2020, 2021, 2022, 2020 - Present

Standing Review Committee Member, Transactions of the Association for Computational Linguistics, 2020 - Present

Workshop Co-chair, Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (AACL-IJCNLP), 2020

Program Committee Member, The International Conference on Computational Linguistics (COLING), 2020

Reviewer Journal Article, Information Processing and Management, 2019 - Present

Program Committee Member, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), 2015, 2016, 2017, 2018, 2019

Area Chair, Annual Meeting of Association for Computational Linguistics (ACL), 2019, 2020, 2023, 2019 - Present

Area Chair, Conference on Empirical Methods in Natural Language Processing (EMNLP), 2019, 2021, 2022, 2019 - Present

Senior Program Committee Member, AAAI Conference on Artificial Intelligence (AAAI), 2019

Program Committee Member, Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), 2019, 2021, 2019 - Present

Reviewer Journal Article, Journal of Association for Information Science and Technology, 2018 - Present

Reviewer Journal Article, ACM Transactions on Intelligent Systems and Technology, 2018 - Present

Reviewer Journal Article, Information Retrieval, 2018 - Present

Reviewer Grant Proposal, Leverhulme Trust, 2017 - Present

Reviewer Book, SpringerBriefs Series, 2017 - Present

Reviewer Journal Article, IEEE Transactions on Cybernetics, 2017 - Present

Reviewer Journal Article, ACM Transactions on Asian and Low-Resource Language Information Processing, 2017 - Present

Program Committee Member, ACM International Conference on Information and Knowledge Management (CIKM), 2017, 2018, 2020, 2017 - Present

Reviewer Journal Article, ACM Computing Surveys, 2016 - Present

Reviewer Journal Article, Neural Computation, 2016 - Present

Reviewer Journal Article, IEEE Transactions on Information Forensics and Security, 2016 - Present

Program Committee Member, International Joint Conference on Artificial Intelligence (IJCAI), 2016, 2018-2020, 2016 - Present

Editor Book, World Scientific Publishing Co. Pte. Ltd, 2015 - 2017

Reviewer Journal Article, Knowledge and Information Systems, 2015 - Present

Reviewer Journal Article, Data Mining and Knowledge Discovery, 2015 - Present

Reviewer Journal Article, IEEE Intelligent Systems, 2015 - Present

Reviewer Journal Article, ACM Transactions on Knowledge Discovery from Data, 2015 - Present

Program Committee Member, ACM International Conference on Web Search and Data Mining (WSDM), 2015, 2017, 2021, 2023, 2024, 2015 - Present

Reviewer Journal Article, ACM Transactions on Information Systems, 2014 - Present

Reviewer Journal Article, ACM Transactions on the Web, 2014 - Present

Reviewer Journal Article, Computational Linguistics, 2013 - Present

Reviewer Journal Article, IEEE Transactions on Knowledge and Data Engineering, 2013 - Present

Reviewer Journal Article, Information Systems, 2012 - Present

Program Committee Member, Annual Meeting of Association for Computational Linguistics (ACL), 2012, 2014-2021, 2023, 2012 - Present

Reviewer Journal Article, IEEE Transactions on Computer, 2011 - Present

Program Committee Member, Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2011-2017, 2019-2024, 2011 - Present

Program Committee Member, Conference on Empirical Methods in Natural Language Processing (EMNLP), 2010-2011, 2013-2017, 2020-2021, 2010 - Present