

FULL PUBLICATION LIST

Books and Book Chapters

1. Wang Z.T., Chen C.Y. and **Li W.J.**, “Information Diffusion Prediction Based on Social Representation Learning with Group Influence”, Chinese Language Resources: Data Collection, Linguistic Analysis, Annotation, and Language Processing, February, 2018 (Book Chapter).
2. Wong K.F., Gao W., Xu R.F. and **Li W.J.**, Social Media Content Analysis: Natural Language Processing and Beyond, Series on Language Processing, Pattern Recognition, and Intelligent Systems, November, 2017.
3. Wei F.R., **Li W.J.**, and Liu S.X., “Document-Aware Graph Models for Query-Oriented Multi-Document Summarization”, in Multimedia Analysis, Processing and Communications, 2011 (Book Chapter).
4. Li S.J., Lu Q. and **Li W.J.**, “Experiments of Ontology Construction with Formal Concept Analysis”, in Ontology and the Lexicon: A Natural Language Processing Perspective, March, 2010 (Book Chapter).
5. Wong K.F., **Li W.J.**, Xu R.F. and Zhang Z.C., Introduction to Chinese Natural Language Processing, Synthesis Lectures on Human Language Technologies, October 2009.
6. **Li W.J.**, Wong K.F. and Yuan C.F., “A Model for Processing Temporal References in Chinese”, in The Language of Time: A Reader, Edited by Inderjeet Mani, James Pustejovsky and Robert Gaizauskas, Oxford University Press, ISBN:0-19-926854-1, May, 2005 (Book Chapter).

Journal Publications

1. Lei G., Lv Q., Cao Z.Q., Cao M., Li S.J., **Li W.J.** and Fu G.H., “Adaptive Sparse Softmax: An Effective and Efficient Softmax Variant”, accepted by IEEE Transactions on Audio, Speech and Language Processing (TASLP), June 12, 2025.
2. Mu F.T. and **Li W.J.**, “Enhancing Narrative Commonsense Reasoning with Multi-Level Causal Knowledge”, IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 36(3):5601-5613, March, 2025.
3. Guan, Z.H., Yang, J.Q., Yang Y., Zhu, H.S., **Li W.J.** and Xiong H., “JobFormer: Skill-Aware Job Recommendation with Semantic-Enhanced Transformer”, ACM Transactions on Knowledge Discovery from Data (TKDD), 19(1), No.18, December, 2024.
4. Gao J., Cao Z.Q. and **Li W.J.**, “SelfCP: Compressing Over-Limit Prompt via the Frozen Large Language Model Itself”, Information Processing and Management (IPM), 61(6), No. 103873, November, 2024.
5. Wang J., Lin D.D. and **Li W.J.**, “A Target-driven Planning Approach for Goal-oriented Dialogue Systems”, IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 35(8):10475-10487, August, 2024.
6. Sun S.C., Yuan R.F., **Li W.J.**, Cao Z.Q. and Li S.J., “Dialogue Acts Enhanced Extract-Abstract Framework for Meeting Summarization”, Information Processing and Management, 61(3), No. 103635, May, 2024.
7. Wang J., Lin D.D. and **Li W.J.**, “Target-constrained Bidirectional Planning for Goal-driven Dialogue Generation”, accepted by ACM Transactions on Information Systems (TOIS), 42(5), No. 124, April, 2024.
8. Yang Y., Li G.Y., Li L.Y., **Li W.J.** and Yang J., “Alignment Efficient Image-Sentence Retrieval Considering Transferable Cross-Modal Representation Learning”, Frontiers of Computer Science,

- 18(1), No. 181335, September, 2023.
9. Yang Y., Zhang C.B., Song X., Dong Z., Zhu H.S., **Li W.J.**, and Yang J., “Contextualized Knowledge Graph Embedding for Explainable Talent Training Course Recommendation”, *ACM Transactions on Information Systems (TOIS)*, 42(2), No. 33, September, 2023.
 10. Li Y.Q., Yang N., Wang L., Wei F.R. and **Li W.J.**, “Generative Retrieval for Conversational Question Answering”, *Information Processing and Management*, 60(5), No. 103475, September, 2023.
 11. Luo Y., Leong C.T., Jiao S.H., Chung F.L., **Li W.J.** and Liu G.P., “Geo-Tile2Vec: A Multi-Modal and Multi-Stage Embedding Framework for Urban Analytics”, *ACM Transactions on Spatial Algorithms and Systems*, 9(2) No. 10, April 2023.
 12. Mei X., Cai X.Y., Xu S., **Li W.J.**, Pan S.R. and Yang L.B., “Mutually Reinforced Network Embedding: An Integrated Approach to Research Paper Recommendation”, *Expert Systems with Applications*, 204, No. 117616, October 2022.
 13. Li Y.Q., **Li W.J.**, Nie L.Q., “Dynamic Graph Reasoning for Conversational Open-domain Question Answering”, *ACM Transactions on Information Systems*, 40(4), No. 821, October 2022.
 14. Gu J.H., Xiang R., Wang X., Li J., **Li W.J.**, Qian L.H., Zhou G.D. and Huang C.R., “Multi-Probe Attention Neural Network for COVID-19 Semantic Indexing”, 23(1), No. 259, *BMC Bioinformatics*, June, 2022.
 15. Lei Y., Wang Z.T., **Li W.J.**, Pei H.B. and Dai Q.Y., “Social Attentive Deep Q-networks for Recommender Systems”, *IEEE Transactions on Knowledge and Data Engineering*, 34(5):2443-2457, May 2022.
 16. Wang Z.T., Chen C.Y. and **Li W.J.**, “Joint Learning of User Representation with Diffusion Sequence and Network Structure”, *IEEE Transactions on Knowledge and Data Engineering*, 34(3):1275-1287, March 2022.
 17. Li Y.R., Zhang R.X., Cao Z.Q. and **Li W.J.**, “Hierarchical Prediction and Adversarial Learning for Conditional Response Generation”, *IEEE Transactions on Knowledge and Data Engineering*, 34(1):314-327, January, 2022.
 18. Wang J.S., Lin P.Q., Mu F.T. and **Li W.J.**, “Empathetic Response Generation through Graph-based Multi-hop Reasoning on Emotional Causality”, *Knowledge-based Systems*, 233(5), 107547, December, 2021.
 19. Wang Z.T. and **Li W.J.**, “Hierarchical Attention Link Prediction Neural Network”, *Knowledge-based Systems*, 232(28), 107431, November 2021.
 20. Xiang R., Chersoni E., Lu Q., Huang C.R., **Li W.J.** and Long, Y.F., “Lexical Data Augmentation for Sentiment Analysis”, *Journal of the Association for Information Science and Technology*, 72(11):1432-1447, November 2021.
 21. Wang Z.T., Lei Y. and **Li W.J.**, “Neighborhood Attention Networks with Adversarial Learning for Link Prediction”, *IEEE Transactions on Neural Network and Learning Systems*, 32(8):3653-3663, August 2021.
 22. Xiang R., Li J., Wan M.Y. Gu J.H., Lu Q., **Li W.J.** and Huang C.R., “Affective Awareness in Neural Sentiment Analysis”, *Knowledge-based Systems*, 226(17), 107137, August 2021.
 23. Wang H.W., Wang J.L., Wang J., Zhao M., Zhang W.N., Zhang F.Z., **Li W.J.**, Xie X. and Guo M.Y., “Learning Graph Representation with Generative Adversarial Nets”, *IEEE Transactions on Knowledge and Data Engineering*, 33(8):3090-3103, August 2021.
 24. Chen C.Y., Wang Z.T. and **Li W.J.**, “Tracking Dynamics of Opinion Behaviors with Content-based Sequential Opinion Influence Model”, *IEEE Transactions on Affective*

Computing, 11(4):627-639, October 2020.

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27. Lei Yu and **Li W.J.**, “Interactive Recommendation with User-specific Deep Reinforcement Learning”, ACM Transactions on Knowledge Discovery from Data, 13(6), No. 31, October 2019.
28. Wang Z.T., Chen C.Y. and **Li W.J.**, “Information Diffusion Prediction with Network Regularized Role-based User Representation Learning”, ACM Transactions on Knowledge Discovery from Data, 13(3), No. 29, June, 2019.
29. Wang H.W., Wang, J.L., Zhao M., **Li W.J.**, Xie X and Guo M.Y., “Exploring High-Order User Preference on the Knowledge Graph for Recommender Systems”, ACM Transactions on Information Systems, 37(3), No. 32, March, 2019.
30. Lu Z.Y., Tan H.H. and **Li W.J.**, “An Evolutionary Context-aware Sequential Model for Topic Evolution of Text Stream”, Information Sciences, 473:166-177, January 2019.
31. Cai X.Y., **Li W.J.**, Zhang R.X., Pan S.R. and Yang L.B., “A Three-Layered Mutually Reinforced Model for Personalized Citation Recommendation”, IEEE Transactions on Neural Networks and Learning Systems, 29(12):6026-6037, December, 2018.
32. Zhao X.Z., Hou Y.X., Song D.W. and **Li W.J.**, “A Confident Information First Principle for Parametric Reduction and Model Selection of Boltzmann Machines”, IEEE Transactions on Neural Networks and Learning Systems, 29(5):1608-1621, May, 2018.
33. Wang P.P, Hou Y.X., Li J.F., Zhang Y.Z., Song D.W. **Li W.J.**, “A Quasi-Current Representation for Information Needs inspired by Two-State Vector Formalism”, Physica A: Statistical Mechanics and its Applications, 482(15):627-637, September 2017.
34. Yang B., Lei Y., Liu J.M. and **Li W.J.**, “Social Collaborative Filtering by Trust”, IEEE Transactions on Pattern Analysis and Machine Intelligence, 38(8):1633-1647, August, 2017.
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36. Yu Z.W., Wang Z.T., Chen L.M., Guo B. and **Li W.J.**, “Featuring, Detecting, and Visualizing Human Sentiment in Chinese Micro-blog”, ACM Transactions on Knowledge Discovery from Data, 10(4):1-23, June, 2016.
37. Zhang R.X., **Li W.J.**, Liu N.S. and Lu Q., “Information Ordering with an Event-Enriched Vector Space Model for Multi-Document News Summarization”, 32(2):323-351, Computational Intelligence, May, 2016.
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40. Zhang W.P., Lau R. Li C.P. and **Li W.J.**, “Dynamic Business Network Analysis for Correlated Stock Price Movement Prediction”, IEEE Transactions on Intelligent Systems, 30(2):26-33, March, 2015.
41. Sun X., H.F. Wang and **Li W.J.**, “Feature-Frequency-Adaptive Online Training for a Fast and

- Accurate Natural Language Processing”, *Computational Linguistics*, 40(3):563-586, September, 2014.
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 45. Gao D.H., **Li W.J.**, Cai X.Y., Zhang R.X. and Ouyang Y., “Sequential Summarization: A Full View of Twitter Trending Topics”, *IEEE/ACM Transactions on Audio, Speech and Language Processing*, 22(2):293-302, February, 2014.
 46. Cai X.Y., **Li W.J.** and Zhang R.X., “Combining Co-clustering with Noise Detection for Theme-based Summarization”, *ACM Transactions on Speech and Language Processing*, 10(4), No. 16, December, 2013.
 47. Sun X., Matsuzaki, T. and **Li W.J.**, “Latent Structured Perceptrons for Large-Scale Learning with Hidden Information”, *IEEE Transactions on Knowledge and Data Engineering*, 25(9):2063-2075, September, 2013.
 48. Hou Y.X., Zhao X.Z., Song D.W. and **Li W.J.**, “Mining Pure High-Order Word Association via Information Geometry for Information Retrieval”, *ACM Transactions on Information Systems*, 31(3), Number 12, July, 2013.
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Ambiguity in Chinese Noun Phrase Extraction”, International Journal of Computer Processing of Chinese and Oriental Languages, 11(2):99-132, 1997.

Top-Tier Conference Publications

91. Zhang X., Zhang Y.Z., Xie W., Long D.K., Li M.X., Xie P.J., Zhang M.S., **Li W.J.** and Zhang M., “Phased Training for LLM-powered Text Retrieval Models Beyond Data Scaling”, to appear in Proceedings of the 2nd Conference on Language Modeling (COLM’2025), Montreal, Canada, October 7-10, 2025.
92. Li Y.Q., Yang L., Wang J., You R.Y., **Li W.J.** and Nie L.Q., “Towards Harmless Multimodal Assistants with Blind Preference Optimization”, to appear in Proceedings of the 33rd ACM International Conference on Multimedia (ACMMM’2025), Dublin, Ireland, October 27-31, 2025.
93. Zhang X., Dai, Z.Q., Li Y.Q., Zhang Y.Z., Long D.K., Zhang M.S., **Li W.J.** and Zhang M., “Towards Text-Image Interleaved Retrieval”, to appear in Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
94. Leong Z.T., Yin Q.Y., Wang J. and **Li W.J.**, “Why Safeguarded Ships Run Aground? Aligned Large Language Models’ Safety Mechanisms Tend to be Anchored in the Template Region”, to appear in Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
95. Hou W.J., Cheng Y., Xu K.S., Li H., Hu Y., **Li W.J.** and Liu J., “RADAR: Enhancing Radiology Report Generation with Supplementary Knowledge Injection”, to appear in Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
96. Xu K.S., Yu T.Z., Hou W.J., Cheng Y., Leong C.T. and **Li W.J.**, “Subtle Errors Matter: Preference Learning via Error-injected Self-editing”, to appear in Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
97. Xiao Y., Wang J.S., Xu Q.C., Song C.H., Xu C.P., Cheng Y., **Li W.J.** and Liu P.F., “Towards Dynamic Theory of Mind: Evaluating LLM Adaptation to Temporal Evolution of Human States”, to appear in Proceedings the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
98. Gao J., Lv Q., Wang Z.L., Wu T.X., Cao Z.Q. and **Li W.J.**, “UniICL: An Efficient ICL Framework Unifying Compression, Selection, and Generation”, to appear in Proceedings the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
99. Wang J., Dai Y.P., Zhang Y.C., Ma Z.Q., **Li W.J.** and Chai J., “Training Turn-by-Turn Verifiers for Dialogue Tutoring Agents: The Curious Case of LLMs as Your Coding Tutors”, to appear in Findings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
100. Xu K.S., Yu T.Z., Cheng Y., Hou W.J., Li L.Y., Jiang X., Shang L.F., Liu Q. and **Li W.J.**, “Learning to Align Multi-Faceted Evaluation: A Unified and Robust Framework”, to appear in Findings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
101. Wang H.L., Wang J., Leong Z.T. and **Li W.J.**, “STeCa: Step-level Trajectory Calibration for LLM Agent Learning”, to appear in Findings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.

102. Xu Q.C., Li Y.Q., Xia H.M., Liu F., Yang M. and **Li W.J.**, “PEToolLLM: Towards Personalized Tool Learning in Large Language Models”, to appear in Findings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
103. Chen X.H., Sun Z.J., Guo W.J., Zhang M.R. Chen Y.J., Sun Y.R., Klalow D., **Li W.J.**, and Shen X.Y., “Unveiling the Key Factors for Distilling Chain-of-Thought Reasoning”, to appear in Findings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025
104. Rui Li, Xia H.M., Yuan X.F., Dong Q.X., Sha L., **Li W.J.** and Sui Z.F., “How Far are LLMs from Being Our Digital Twins? A Benchmark for Persona-Based Behavior Chain Simulation”, to appear in Findings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL’2025), Vienna, Austria, July 28-30, 2025.
105. Yin Q.Y., Leong C.T., Zhang H.B., Zhu M.J., Yan H.Q., Zhang Q., He Y.L., **Li W.J.**, Wang J., Zhang Y. and Yang L.Y., “Constrain Alignment with a Sparse AutoEncoder”, in Proceedings of the 42nd International Conference on Machine Learning (ICML’2025), Vancouver, Canada, July 13-19, 2025.
106. Cai H.R., Li Y.Q., Yuan R.F., Wang W.J., Zhang Z. and **Li W.J.**, “Scaling Laws for Generative Retrieval”, accepted by the 48th International ACM SIGIR Conference on Research and Development in the Information Retrieval (SIGIR’2025), Padua, Italy, July 13-17, 2025.
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