

- [6] Mohammad Aliannejadi, Leif Azzopardi, Hamed Zamani, Evangelos Kanoulas, Paul Thomas, and Nick Craswell. 2021. Analysing Mixed Initiatives and Search Strategies during Conversational Search. In *CIKM*. ACM, 16–26.
- [7] Mohammad Aliannejadi, Jacek Gwizdka, and Hamed Zamani. 2024. Interactions with Generative Information Retrieval Systems. *CoRR* abs/2407.11605 (2024).
- [8] Mohammad Aliannejadi, Julia Kiseleva, Aleksandr Chuklin, Jeff Dalton, and Mikhail Burtsev. 2021. Building and Evaluating Open-Domain Dialogue Corpora with Clarifying Questions. In *EMNLP*.
- [9] Mohammad Aliannejadi, Hamed Zamani, Fabio Crestani, and W. Bruce Croft. 2019. Asking Clarifying Questions in Open-Domain Information-Seeking Conversations. In *SIGIR*. 475–484.
- [10] Raviteja Anantha, Svitlana Vakulenko, Zhucheng Tu, Shayne Longpre, Stephen Pulman, and Srinivas Chappidi. 2021. Open-Domain Question Answering Goes Conversational via Question Rewriting. In *NAACL*. ACL, 520–534.
- [11] Chinmaya Andukuri, Jan-Philipp Fränken, Tobias Gerstenberg, and Noah D. Goodman. 2024. STaR-GATE: Teaching Language Models to Ask Clarifying Questions. *CoRR* abs/2403.19154 (2024).
- [12] Jinheon Baek, Nirupama Chandrasekaran, Silviu Cucerzan, Allen Herring, and Sujay Kumar Jauhar. 2023. Knowledge-Augmented Large Language Models for Personalized Contextual Query Suggestion. *WWW* (2023).
- [13] Krisztian Balog and ChengXiang Zhai. 2024. Tutorial on User Simulation for Evaluating Information Access Systems on the Web. *WWW* (2024).
- [14] Maximilian Chen, Ruoxi Sun, Serkan Ö. Arik, and Tomas Pfister. 2024. Learning to Clarify: Multi-turn Conversations with Action-Based Contrastive Self-Training. *CoRR* abs/2406.00222 (2024).
- [15] Yue Chen, Chen Huang, Yang Deng, Wenqiang Lei, Dingnan Jin, Jia Liu, and Tat-Seng Chua. 2024. STYLE: Improving Domain Transferability of Asking Clarification Questions in Large Language Model Powered Conversational Agents. In *Findings of ACL*.
- [16] Eunsol Choi, He He, Mohit Iyyer, Mark Yatskar, Wen-tau Yih, Yejin Choi, Percy Liang, and Luke Zettlemoyer. 2018. QuAC: Question Answering in Context. In *EMNLP*. 2174–2184.
- [17] Zhuyun Dai and Jamie Callan. 2019. Deeper Text Understanding for IR with Contextual Neural Language Modeling. *SIGIR* (2019).
- [18] Jeffrey Dalton, Sophie Fischer, Paul Owoicho, Filip Radlinski, Federico Rossetto, Johanne R. Trippas, and Hamed Zamani. 2022. Conversational Information Seeking: Theory and Application. *SIGIR* (2022).
- [19] Jeffrey Dalton, Chenyan Xiong, and Jamie Callan. 2020. TREC CAsT 2019: The conversational assistance track overview. *arXiv preprint arXiv:2003.13624* (2020).
- [20] Yang Deng, Lizi Liao, Liang Chen, Hongru Wang, Wenqiang Lei, and Tat-Seng Chua. 2023. Prompting and Evaluating Large Language Models for Proactive Dialogues: Clarification, Target-guided, and Non-collaboration. In *Findings of EMNLP*.
- [21] Yang Deng, An Zhang, Yankai Lin, Xu Chen, Ji-Rong Wen, and Tat-Seng Chua. 2024. Large Language Model Powered Agents in the Web. *WWW* (2024).
- [22] Yang Deng, Yong Zhao, Moxin Li, See-Kiong Ng, and Tat-Seng Chua. 2024. Gotcha! Don't trick me with unanswerable questions! Self-aligning Large Language Models for Responding to Unknown Questions. *arXiv preprint arXiv:2402.15062* (2024).
- [23] Kaustubh D. Dhole, Ramraj Chandradevan, and Eugene Agichtein. 2023. An Interactive Query Generation Assistant using LLM-based Prompt Modification and User Feedback. *ArXiv* abs/2311.11226 (2023).
- [24] Sonam Goenka, Zhao-Heng Zheng, Ayush Jaiswal, Rakesh Chada, Yuehua Wu, Varsha Hedau, and Pradeep Natarajan. 2022. FashionVLP: Vision Language Transformer for Fashion Retrieval with Feedback. *CVPR* (2022), 14085–14095.
- [25] Rolf Jagerman, Honglei Zhuang, Zhen Qin, Xuanhui Wang, and Michael Bendersky. 2023. Query Expansion by Prompting Large Language Models. *ArXiv* abs/2305.03653 (2023).
- [26] Kimiya Keyvan and J. Huang. 2022. How to Approach Ambiguous Queries in Conversational Search: A Survey of Techniques, Approaches, Tools, and Challenges. *Comput. Surveys* 55 (2022), 1–40.
- [27] Ekaterina Khramtsova, Shengyao Zhuang, Mahsa Baktashmotlagh, and Guido Zuccon. 2024. Leveraging LLMs for Unsupervised Dense Retriever Ranking. *arXiv preprint arXiv:2402.04853* (2024).
- [28] Antonios Minas Krasakis, Mohammad Aliannejadi, Nikos Voskarides, and Evangelos Kanoulas. 2020. Analysing the Effect of Clarifying Questions on Document Ranking in Conversational Search. In *ICTIR*. ACM, 129–132.
- [29] Wenqiang Lei, Xiangnan He, Yisong Miao, Qingyun Wu, Richang Hong, Min-Yen Kan, and Tat-Seng Chua. 2020. Estimation-Action-Reflection: Towards Deep Interaction Between Conversational and Recommender Systems. *Proceedings of the 13th International Conference on Web Search and Data Mining* (2020).
- [30] Lizi Liao, Grace Hui Yang, and Chirag Shah. 2023. Proactive Conversational Agents in the Post-ChatGPT World. *SIGIR* (2023).
- [31] Kelong Mao, Zhicheng Dou, Haonan Chen, Fengran Mo, and Hongjin Qian. 2023. Large Language Models Know Your Contextual Search Intent: A Prompting Framework for Conversational Search. In *EMNLP*.
- [32] Chuan Meng, Mohammad Aliannejadi, and Maarten de Rijke. 2023. System Initiative Prediction for Multi-turn Conversational Information Seeking. In *CIKM*. ACM, 1807–1817.
- [33] Chuan Meng, Negar Arabzadeh, Arian Askari, Mohammad Aliannejadi, and Maarten de Rijke. 2024. Query Performance Prediction using Relevance Judgments Generated by Large Language Models. *arXiv:2404.01012* (2024).
- [34] Fengran Mo, Kelong Mao, Yutao Zhu, Yihong Wu, Kaiyu Huang, and Jian-Yun Nie. 2023. ConvGQR: Generative Query Reformulation for Conversational Search. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*. ACL, 4998–5012.
- [35] Paul Owoicho, Jeff Dalton, Mohammad Aliannejadi, Leif Azzopardi, Johanne R. Trippas, and Svitlana Vakulenko. 2022. TREC CAsT 2022: Going Beyond User Ask and System Retrieve with Initiative and Response Generation. In *TREC*.
- [36] Paul Owoicho, Ivan Sekulic, Mohammad Aliannejadi, Jeffrey Stephen Dalton, and Fabio A. Crestani. 2023. Exploiting Simulated User Feedback for Conversational Search: Ranking, Rewriting, and Beyond. *SIGIR* (2023).
- [37] Ronak Pradeep, Sahel Sharifymoghaddam, and Jimmy Lin. 2023. RankZephyr: Effective and Robust Zero-Shot Listwise Reranking is a Breeze! *arXiv preprint arXiv:2312.02724* (2023).
- [38] Filip Radlinski and Nick Craswell. 2017. A Theoretical Framework for Conversational Search. In *CHIIR*. ACM, 117–126.
- [39] Colin Raffel, Noam Shazeer, Adam Roberts, Katherine Lee, Sharan Narang, Michael Matena, Yanqi Zhou, Wei Li, and Peter J. Liu. 2020. Exploring the limits of transfer learning with a unified text-to-text transformer. *Journal of machine learning research* 21, 140 (2020), 1–67.
- [40] Ruiyang Ren, Peng Qiu, Yingqi Qu, Jing Liu, Wayne Xin Zhao, Huaqin Wu, Ji-Rong Wen, and Haifeng Wang. 2024. BASES: Large-scale Web Search User Simulation with Large Language Model based Agents. *ArXiv* abs/2402.17505 (2024).
- [41] Corbin Rosset, Chenyan Xiong, Xia Song, Daniel Campos, Nick Craswell, Saurabh Tiwary, and Paul N. Bennett. 2020. Leading Conversational Search by Suggesting Useful Questions. In *WWW*. 1160–1170.
- [42] Ivan Sekulic, Mohammad Aliannejadi, and Fabio A. Crestani. 2022. Evaluating Mixed-initiative Conversational Search Systems via User Simulation. *WSDM* (2022).
- [43] Ivan Sekulic, Mohammad Alinannejadi, and Fabio Crestani. 2024. Analysing Utterances in LLM-Based User Simulation for Conversational Search. *ACM Transactions on Intelligent Systems and Technology* 15 (2024), 1–22.
- [44] Ivan Sekulic, Silvia Terragni, Victor Guimaraes, Nghia Khau, Bruna Guedes, Modestas Filipavicius, André Ferreira Manso, and Roland Mathis. 2024. Reliable LLM-based User Simulator for Task-Oriented Dialogue Systems. *ArXiv* abs/2402.13374 (2024).
- [45] Omar Shaikh, Kristina Gligoric, Ashna Khetan, Matthias Gerstgrasser, Diyi Yang, and Dan Jurafsky. 2024. Grounding Gaps in Language Model Generations. In *NAACL-HLT*. ACL, 6279–6296.
- [46] Yu Sun, Nicholas Jing Yuan, Xing Xie, Kieran McDonald, and Rui Zhang. 2017. Collaborative Intent Prediction with Real-Time Contextual Data. *TOIS* 35 (2017), 1–33.
- [47] Anuja Tayal and Aman Tyagi. 2024. Dynamic Contexts for Generating Suggestion Questions in RAG Based Conversational Systems. In *WWW*. 1338–1341.
- [48] Abhisek Tiwari, Anisha Saha, Sriparna Saha, Pushpak Bhattacharyya, and Minakshi Dhar. 2023. Experience and Evidence are the eyes of an excellent summarizer! Towards Knowledge Infused Multi-modal Clinical Conversation Summarization. *CIKM* (2023).
- [49] Svitlana Vakulenko, Shayne Longpre, Zhucheng Tu, and Raviteja Anantha. 2021. Question rewriting for conversational question answering. In *WSDM*. 355–363.
- [50] Somnath Wadhwa and Hamed Zamani. 2021. Towards System-Initiative Conversational Information Seeking. In *DESIRE*, Vol. 2950. CEUR-WS.org, 102–116.
- [51] Liang Wang, Nan Yang, and Furu Wei. 2023. Query2doc: Query Expansion with Large Language Models. In *EMNLP*.
- [52] Lei Wang, Jingsen Zhang, Hao Yang, Zhiyuan Chen, Jiakai Tang, Zeyu Zhang, Xu Chen, Yankai Lin, Ruihua Song, Wayne Xin Zhao, Jun Xu, Zhicheng Dou, Jun Wang, and Ji rong Wen. 2023. User Behavior Simulation with Large Language Model based Agents.
- [53] Zhenduo Wang, Zhichao Xu, Qingyao Ai, and Vivek Srikumar. 2023. An In-depth Investigation of User Response Simulation for Conversational Search. *WWW* (2023).
- [54] Zhongyuan Wang, Kejun Zhao, Haixun Wang, Xiaofeng Meng, and Ji-Rong Wen. 2015. Query Understanding through Knowledge-Based Conceptualization. In *IJCAI*.
- [55] Zeqiu Wu, Ryu Parish, Hao Cheng, Sewon Min, Prithviraj Ammanabrolu, Mari Ostendorf, and Hannaneh Hajishirzi. 2022. INSCIT: Information-Seeking Conversations with Mixed-Initiative Interactions. *CoRR* abs/2207.00746 (2022).
- [56] Fanghua Ye, Meng Fang, Shenghui Li, and Emine Yilmaz. 2023. Enhancing Conversational Search: Large Language Model-Aided Informative Query Rewriting. In *Findings of EMNLP*. ACL, 5985–6006.
- [57] Shi Yu, Jiahua Liu, Jingqin Yang, Chenyan Xiong, Paul Bennett, Jianfeng Gao, and Zhiyuan Liu. 2020. Few-shot generative conversational query rewriting. In *SIGIR*. 1933–1936.
- [58] Yifei Yuan and Wai Lam. 2021. Conversational Fashion Image Retrieval via Multi-turn Natural Language Feedback. *SIGIR* (2021).

- [59] Yifei Yuan, Chen Shi, Runze Wang, Liyi Chen, Feijun Jiang, Yuan You, and Wai Lam. 2022. McQueen: a Benchmark for Multimodal Conversational Query Rewrite. In *EMNLP. ACL*, 4834–4844.
- [60] Yifei Yuan, Clemencia Siro, Mohammad Aliannejadi, Maarten de Rijke, and Wai Lam. 2024. Asking Multimodal Clarifying Questions in Mixed-Initiative Conversational Search. *WWW* (2024).
- [61] Tong Zhang, Peixin Qin, Yang Deng, Chen Huang, Wenqiang Lei, Junhong Liu, Dingnan Jin, Hongru Liang, and Tat-Seng Chua. 2024. CLAMBER: A Benchmark of Identifying and Clarifying Ambiguous Information Needs in Large Language Models. In *ACL*.
- [62] Jie Zou, Aixin Sun, Cheng Long, Mohammad Aliannejadi, and Evangelos Kanoulas. 2023. Asking Clarifying Questions: To benefit or to disturb users in Web search? *Inf. Process. Manag.* 60, 2 (2023), 103176.