







- Development in Information Retrieval (SIGIR '16)*. ACM, New York, NY, USA, 549–558. <https://doi.org/10.1145/2911451.2911489>
- [14] Balázs Hidasi, Alexandros Karatzoglou, Oren Sar-Shalom, Sander Dieleman, Bracha Shapira, and Domonkos Tikk. 2017. DLRS 2017: Second Workshop on Deep Learning for Recommender Systems. In *Proceedings of the Eleventh ACM Conference on Recommender Systems (RecSys '17)*. ACM, New York, NY, USA, 370–371.
- [15] Baotian Hu, Zhengdong Lu, Hang Li, and Qingcai Chen. 2014. Convolutional Neural Network Architectures for Matching Natural Language Sentences. In *Advances in Neural Information Processing Systems 27*, Z. Ghahramani, M. Welling, C. Cortes, N. D. Lawrence, and K. Q. Weinberger (Eds.). Curran Associates, Inc., 2042–2050.
- [16] Po-Sen Huang, Xiaodong He, Jianfeng Gao, Li Deng, Alex Acero, and Larry Heck. 2013. Learning Deep Structured Semantic Models for Web Search Using Clickthrough Data. In *Proceedings of the 22Nd ACM International Conference on Information & Knowledge Management (CIKM '13)*. ACM, New York, NY, USA, 2333–2338.
- [17] Yehuda Koren, Robert Bell, and Chris Volinsky. 2009. Matrix Factorization Techniques for Recommender Systems. *Computer* 42, 8 (Aug. 2009), 30–37. <https://doi.org/10.1109/MC.2009.263>
- [18] Hang Li and Jun Xu. 2012. Beyond Bag-of-words: Machine Learning for Query-document Matching in Web Search. In *Proceedings of the 35th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '12)*. ACM, New York, NY, USA, 1177–1177.
- [19] Hang Li and Jun Xu. 2012. Machine Learning for Query-document Matching in Search. In *Proceedings of the Fifth ACM International Conference on Web Search and Data Mining (WSDM '12)*. ACM, New York, NY, USA, 767–768.
- [20] Hang Li and Jun Xu. 2012. Semantic Matching in Search. In *Proceedings of the 21st international conference on World Wide Web (WWW '12)*.
- [21] Hang Li and Jun Xu. 2014. Semantic Matching in Search. *Foundations and Trends® in Information Retrieval* 7, 5 (2014), 343–469.
- [22] Jing Li, Pengjie Ren, Zhumin Chen, Zhaochun Ren, Tao Lian, and Jun Ma. 2017. Neural Attentive Session-based Recommendation. In *Proceedings of the 2017 ACM on Conference on Information and Knowledge Management (CIKM '17)*. ACM, New York, NY, USA, 1419–1428.
- [23] Hamid Palangi, Li Deng, Yelong Shen, Jianfeng Gao, Xiaodong He, Jianshu Chen, Xinying Song, and Rabab Ward. 2016. Deep Sentence Embedding Using Long Short-term Memory Networks: Analysis and Application to Information Retrieval. *IEEE/ACM Trans. Audio, Speech and Lang. Proc.* 24, 4 (2016), 694–707.
- [24] Liang Pang, Yanyan Lan, Jiafeng Guo, Jun Xu, Shengxian Wan, and Xueqi Cheng. 2016. Text Matching As Image Recognition. In *Proceedings of the Thirtieth AAAI Conference on Artificial Intelligence (AAAI'16)*. AAAI Press, 2793–2799.
- [25] Liang Pang, Yanyan Lan, Jiafeng Guo, Jun Xu, Jingfang Xu, and Xueqi Cheng. 2017. DeepRank: A New Deep Architecture for Relevance Ranking in Information Retrieval. In *Proceedings of the 26th International Conference on Information and Knowledge Management (CIKM'17)*.
- [26] Ankur P. Parikh, Oscar Täckström, Dipanjan Das, and Jakob Uszkoreit. 2016. A Decomposable Attention Model for Natural Language Inference. In *Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing, EMNLP 2016, Austin, Texas, USA, November 1-4, 2016*. 2249–2255. <http://aclweb.org/anthology/D/D16/D16-1244.pdf>
- [27] Xipeng Qiu and Xuanjing Huang. 2015. Convolutional Neural Tensor Network Architecture for Community-based Question Answering. In *Proceedings of the 24th International Conference on Artificial Intelligence (IJCAI'15)*. AAAI Press, 1305–1311.
- [28] Yelong Shen, Xiaodong He, Jianfeng Gao, Li Deng, and Grégoire Mesnil. 2014. A Latent Semantic Model with Convolutional-Pooling Structure for Information Retrieval. In *Proceedings of the 23rd ACM International Conference on Conference on Information and Knowledge Management (CIKM '14)*. ACM, New York, NY, USA, 101–110. <https://doi.org/10.1145/2661829.2661935>
- [29] Shengxian Wan, Yanyan Lan, Jun Xu, Jiafeng Guo, Liang Pang, and Xueqi Cheng. 2016. Match-SRNN: Modeling the Recursive Matching Structure with Spatial RNN. In *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence (IJCAI'16)*. AAAI Press, 2922–2928.
- [30] Xiang Wang, Xiangnan He, Fuli Feng, Liqiang Nie, and Tat-Seng Chua. 2018. TEM: Tree-enhanced Embedding Model for Explainable Recommendation. In *Proceedings of the 2018 World Wide Web Conference (WWW '18)*. International World Wide Web Conferences Steering Committee, Republic and Canton of Geneva, Switzerland, 1543–1552. <https://doi.org/10.1145/3178876.3186066>
- [31] Wei Wu, Hang Li, and Jun Xu. 2013. Learning Query and Document Similarities from Click-through Bipartite Graph with Metadata. In *Proceedings of the Sixth ACM International Conference on Web Search and Data Mining (WSDM '13)*. ACM, New York, NY, USA, 687–696.
- [32] Jun Xiao, Hao Ye, Xiangnan He, Hanwang Zhang, Fei Wu, and Tat-Seng Chua. 2017. Attentional Factorization Machines: Learning the Weight of Feature Interactions via Attention Networks. In *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI'17)*. AAAI Press, 3119–3125. <http://dl.acm.org/citation.cfm?id=3172077.3172324>
- [33] Chenyan Xiong, Zhuyun Dai, Jamie Callan, Zhiyuan Liu, and Russell Power. 2017. End-to-End Neural Ad-hoc Ranking with Kernel Pooling. In *Proceedings of the 40th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '17)*. ACM, New York, NY, USA, 55–64. <https://doi.org/10.1145/3077136.3080809>
- [34] Fuzheng Zhang, Nicholas Jing Yuan, Defu Lian, Xing Xie, and Wei-Ying Ma. 2016. Collaborative Knowledge Base Embedding for Recommender Systems. In *Proceedings of the 22Nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD '16)*. ACM, New York, NY, USA, 353–362.
- [35] Qian Zhao, Yue Shi, and Liangjie Hong. 2017. GB-CENT: Gradient Boosted Categorical Embedding and Numerical Trees. In *Proceedings of the 26th International Conference on World Wide Web (WWW '17)*. International World Wide Web Conferences Steering Committee, Republic and Canton of Geneva, Switzerland, 1311–1319. <https://doi.org/10.1145/3038912.3052668>