1, TITLE: Users: Can't Work With Them, Can't Work Without Them?
https://dl.acm.org/doi/abs/10.1145/3477495.3532787
AUTHORS: Alistair Moffat
HIGHLIGHT: If we could design the ideal IR "effectiveness" experiment (as distinct from an IR "efficiency" experiment), what would it look like?

2, TITLE: Few-shot Information Extraction is Here: Pre-train, Prompt and Entail
https://dl.acm.org/doi/abs/10.1145/3477495.3532786
AUTHORS: Eneko Agirre
HIGHLIGHT: Manually annotated entailment datasets covering multiple inference phenomena have been used to infuse inference capabilities to PLMs. This talk will review these recent developments, and will present an approach that combines prompts and PLMs fine-tuned for textual entailment that yields state-of-the-art results on Information Extraction (IE) using only a small fraction of the annotations.

3, TITLE: Searching for a New and Better Future of Work
https://dl.acm.org/doi/abs/10.1145/3477495.3532088
AUTHORS: Jaime Teevan
HIGHLIGHT: In this talk I will give an overview of what research tells us about emerging work practices, and explore how the SIGIR community can build on these findings to help create a new - and better - future of work.

4, TITLE: Intelligent Conversational Agents for Ambient Computing
https://dl.acm.org/doi/abs/10.1145/3477495.3532087
AUTHORS: Ruhi Sarikaya
HIGHLIGHT: In this talk, we present some early steps we are taking with Alexa, Amazon's Conversational AI system, to move from supervised learning to self-learning methods, where the AI relies on customer interactions for supervision in our journey to ambient intelligence.

5, TITLE: Can Clicks Be Both Labels and Features?: Unbiased Behavior Feature Collection and Uncertainty-aware Learning to Rank
https://dl.acm.org/doi/abs/10.1145/3477495.3531948
AUTHORS: Tao Yang, Chen Luo, Hanqing Lu, Parth Gupta, Bing Yin, Qingyao Ai
HIGHLIGHT: In this paper, we explore the possibility of incorporating user clicks as both training labels and ranking features for learning to rank.

6, TITLE: Implicit Feedback for Dense Passage Retrieval: A Counterfactual Approach
https://dl.acm.org/doi/abs/10.1145/3477495.3531994
AUTHORS: Shengyao Zhuang, Hang Li, Guido Zuccon
HIGHLIGHT: In this paper we study how to effectively exploit implicit feedback in Dense Retrievers (DRs).

7, TITLE: Bilateral Self-unbiased Learning from Biased Implicit Feedback
https://dl.acm.org/doi/abs/10.1145/3477495.3531946
AUTHORS: Jae-woong Lee, Seongmin Park, Joonseok Lee, Jongwuk Lee
HIGHLIGHT: In this paper, we propose a novel unbiased recommender learning model, namely BIlateral SElf-unbiased Recommender (BISER), to eliminate the exposure bias of items caused by recommender models.

8, TITLE: Interpolative Distillation for Unifying Biased and Debiased Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532002
AUTHORS: Sihao Ding, Fuli Feng, Xiangnan He, Jinqiu Jin, Wenjie Wang, Yong Liao, Yongdong Zhang
HIGHLIGHT: In this work, we aim to develop a win-win recommendation method that is strong on both tests.

9, TITLE: Investigating Accuracy-Novelty Performance for Graph-based Collaborative Filtering
https://dl.acm.org/doi/abs/10.1145/3477495.3532005
AUTHORS: Minghao Zhao, Le Wu, Yile Liang, Lei Chen, Jian Zhang, Qilin Deng, Kai Wang, Xudong Shen, Tangjie Lv, Runze Wu
HIGHLIGHT: While conventional CF models are known for facing the challenges of the popularity bias that favors popular items, one may wonder "Whether the existing graph-based CF models alleviate or exacerbate the popularity bias of recommender systems?" To answer this question, we first investigate the two-fold performances w.r.t. accuracy and novelty for existing graph-based CF methods.

10, TITLE: Co-training Disentangled Domain Adaptation Network for Leveraging Popularity Bias in Recommenders
https://dl.acm.org/doi/abs/10.1145/3477495.3531952
AUTHORS: Zhihong Chen, Jiawei Wu, Chenliang Li, Jingxu Chen, Rong Xiao, Binqiang Zhao
HIGHLIGHT: To make better use of the popularity bias, we propose a co-training disentangled domain adaptation network (CD^{2}AN), which can co-train both biased and unbiased models.

11, TITLE: Hypergraph Contrastive Collaborative Filtering
https://dl.acm.org/doi/abs/10.1145/3477495.3532058
AUTHORS: Lianghao Xia, Chao Huang, Yong Xu, Jiashu Zhao, Dawei Yin, Jimmy Huang
HIGHLIGHT: However, two key challenges have not been well explored in existing solutions: i) The over-smoothing effect with deeper graph-based CF architecture, may cause the indistinguishable user representations and degradation of recommendation results. ii) The supervision signals (i.e., user-item interactions) are usually scarce and skewed distributed in reality, which limits the

representation power of CF paradigms. To tackle these challenges, we propose a new self-supervised recommendation framework Hypergraph Contrastive Collaborative Filtering (HCCF) to jointly capture local and global collaborative relations with a hypergraph-enhanced cross-view contrastive learning architecture.

12, TITLE: Geometric Disentangled Collaborative Filtering
https://dl.acm.org/doi/abs/10.1145/3477495.3531982
AUTHORS: Yiding Zhang, Chaozhuo Li, Xing Xie, Xiao Wang, Chuan Shi, Yuming Liu, Hao Sun, Liangjie Zhang, Weiwei Deng, Qi Zhang
HIGHLIGHT: The Euclidean-based models may be inadequate to fully uncover the intent factors beneath such hybrid-geometry interactions. To remedy this deficiency, in this paper, we study the novel problem of Geometric Disentangled Collaborative Filtering (GDCF), which aims to reveal and disentangle the latent intent factors across multiple geometric spaces.

13, TITLE: INMO: A Model-Agnostic and Scalable Module for Inductive Collaborative Filtering
https://dl.acm.org/doi/abs/10.1145/3477495.3532000
AUTHORS: Yunfan Wu, Qi Cao, Huawei Shen, Shuchang Tao, Xueqi Cheng
HIGHLIGHT: Besides, the number of model parameters heavily depends on the number of all users and items, restricting their scalability to real-world applications. To solve the above challenges, in this paper, we propose a novel model-agnostic and scalable Inductive Embedding Module for collaborative filtering, namely INMO.

14, TITLE: Improving Implicit Alternating Least Squares with Ring-based Regularization
https://dl.acm.org/doi/abs/10.1145/3477495.3531995
AUTHORS: Rui Fan, Jin Chen, Jin Zhang, Defu Lian, Enhong Chen
HIGHLIGHT: In this paper, we propose a novel ring-based regularization to penalize significant differences of each user's preferences between each item and some other items.

15, TITLE: Graph Trend Filtering Networks for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531985
AUTHORS: Wenqi Fan, Xiaorui Liu, Wei Jin, Xiangyu Zhao, Jiliang Tang, Qing Li
HIGHLIGHT: In this paper, we investigate the drawbacks (e.g., non-adaptive propagation and non-robustness) of existing GNN-based recommendation methods.

16, TITLE: Learning to Denoise Unreliable Interactions for Graph Collaborative Filtering
https://dl.acm.org/doi/abs/10.1145/3477495.3531889
AUTHORS: Changxin Tian, Yuexiang Xie, Yaliang Li, Nan Yang, Wayne Xin Zhao
HIGHLIGHT: Although there have been several studies on data denoising in recommender systems, they either neglect direct intervention of noisy interaction in the message-propagation of GNN, or fail to preserve the diversity of recommendation when denoising. To tackle the above issues, this paper presents a novel GNN-based CF model, named Robust Graph Collaborative Filtering (RGCF), to denoise unreliable interactions for recommendation.

17, TITLE: Analyzing and Simulating User Utterance Reformulation in Conversational Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531936
AUTHORS: Shuo Zhang, Mu-Chun Wang, Krisztian Balog
HIGHLIGHT: However, building a human-like simulator is still an open challenge. In this work, we focus on how users reformulate their utterances when a conversational agent fails to understand them.

18, TITLE: Conversational Question Answering on Heterogeneous Sources
https://dl.acm.org/doi/abs/10.1145/3477495.3531815
AUTHORS: Philipp Christmann, Rishiraj Saha Roy, Gerhard Weikum
HIGHLIGHT: This paper addresses the novel issue of jointly tapping into all of these together, this way boosting answer coverage and confidence. We present CONVINSE, an end-to-end pipeline for ConvQA over heterogeneous sources, operating in three stages: i) learning an explicit structured representation of an incoming question and its conversational context, ii) harnessing this frame-like representation to uniformly capture relevant evidences from KB, text, and tables, and iii) running a fusion-in-decoder model to generate the answer.

19, TITLE: Structured and Natural Responses Co-generation for Conversational Search
https://dl.acm.org/doi/abs/10.1145/3477495.3532063
AUTHORS: Chenchen Ye, Lizi Liao, Fuli Feng, Wei Ji, Tat-Seng Chua
HIGHLIGHT: The latter emphasizes generating natural responses but fails to predict structured acts. Therefore, we propose a neural co-generation model that gener- ates the two concurrently.

20, TITLE: Variational Reasoning about User Preferences for Conversational Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532077
AUTHORS: Zhaochun Ren, Zhi Tian, Dongdong Li, Pengjie Ren, Liu Yang, Xin Xin, Huasheng Liang, Maarten de Rijke, Zhumin Chen
HIGHLIGHT: In this paper, we address the problem of accurately recognizing and maintaining user preferences in CRSs.

21, TITLE: Curriculum Contrastive Context Denoising for Few-shot Conversational Dense Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531961
AUTHORS: Kelong Mao, Zhicheng Dou, Hongjin Qian

HIGHLIGHT: In this paper, we reveal that not all historical conversational turns are necessary for understanding the intent of the current query.

22, TITLE: Unified Dialog Model Pre-training for Task-Oriented Dialog Understanding and Generation
https://dl.acm.org/doi/abs/10.1145/3477495.3532069
AUTHORS: Wanwei He, Yinpei Dai, Min Yang, Jian Sun, Fei Huang, Luo Si, Yongbin Li
HIGHLIGHT: In this paper, we propose SPACE, a novel unified pre-trained dialog model learning from large-scale dialog corpora with limited annotations, which can be effectively fine-tuned on a wide range of downstream dialog tasks.

23, TITLE: COSPLAY: Concept Set Guided Personalized Dialogue Generation Across Both Party Personas
https://dl.acm.org/doi/abs/10.1145/3477495.3531957
AUTHORS: Chen Xu, Piji Li, Wei Wang, Haoran Yang, Siyun Wang, Chuangbai Xiao
HIGHLIGHT: In this work, we propose COSPLAY(COncept Set guided PersonaLized dialogue generation Across both partY personas) that considers both parties as a "team": expressing self-persona while keeping curiosity toward the partner, leading responses around mutual personas, and finding the common ground.

24, TITLE: Interacting with Non-Cooperative User: A New Paradigm for Proactive Dialogue Policy
https://dl.acm.org/doi/abs/10.1145/3477495.3532001
AUTHORS: Wenqiang Lei, Yao Zhang, Feifan Song, Hongru Liang, Jiaxin Mao, Jiancheng Lv, Zhenglu Yang, Tat-Seng Chua
HIGHLIGHT: We argue that the targets of reaching the goal topic quickly and maintaining a high user satisfaction are not always converged, because the topics close to the goal and the topics user preferred may not be the same. Towards this issue, we propose a new solution named I-Pro that can learn Proactive policy in the Interactive setting.

25, TITLE: User-Centric Conversational Recommendation with Multi-Aspect User Modeling
https://dl.acm.org/doi/abs/10.1145/3477495.3532074
AUTHORS: Shuokai Li, Ruobing Xie, Yongchun Zhu, Xiang Ao, Fuzhen Zhuang, Qing He
HIGHLIGHT: To systematically model the multi-aspect information, we propose a User-Centric Conversational Recommendation (UCCR) model, which returns to the essence of user preference learning in CRS tasks.

26, TITLE: Generating Clarifying Questions with Web Search Results
https://dl.acm.org/doi/abs/10.1145/3477495.3531981
AUTHORS: Ziliang Zhao, Zhicheng Dou, Jiaxin Mao, Ji-Rong Wen
HIGHLIGHT: For such a query, it is unable to generate an informative question. To alleviate this problem, we propose leveraging top search results of the query to help generate better descriptions because we deem that the top retrieved documents contain rich and relevant contexts of the query.

27, TITLE: ADPL: Adversarial Prompt-based Domain Adaptation for Dialogue Summarization with Knowledge Disentanglement
https://dl.acm.org/doi/abs/10.1145/3477495.3531933
AUTHORS: Lulu Zhao, Fujia Zheng, Weihao Zeng, Keqing He, Ruotong Geng, Huixing Jiang, Wei Wu, Weiran Xu
HIGHLIGHT: Overall, our work introduces a prompt-based perspective to the zero-shot learning for dialogue summarization task and provides valuable findings and insights for future research.

28, TITLE: Learning to Infer User Implicit Preference in Conversational Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531844
AUTHORS: Chenhao Hu, Shuhua Huang, Yansen Zhang, Yubao Liu
HIGHLIGHT: To address the limitations of existing methods, we propose a new CRS framework called Conversational Recommender with Implicit Feedback (CRIF).

29, TITLE: DisenCDR: Learning Disentangled Representations for Cross-Domain Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531967
AUTHORS: Jiangxia Cao, Xixun Lin, Xin Cong, Jing Ya, Tingwen Liu, Bin Wang
HIGHLIGHT: Grounded in the information theory, we propose DisenCDR, a novel model to disentangle the domain-shared and domain-specific information.

30, TITLE: Structure-Aware Semantic-Aligned Network for Universal Cross-Domain Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3532061
AUTHORS: Jialin Tian, Xing Xu, Kai Wang, Zuo Cao, Xunliang Cai, Heng Tao Shen
HIGHLIGHT: Compared to CDR, the UCDR task is more challenging due to (1) visually diverse data from multi-source domains, (2) the domain shift between seen and unseen domains, and (3) the semantic shift across seen and unseen categories. To tackle these problems, we propose a novel model termed Structure-Aware Semantic-Aligned Network (SASA) to align the heterogeneous representations of multi-source domains without loss of generalizability for the UCDR task.

31, TITLE: Dynamics-Aware Adaptation for Reinforcement Learning Based Cross-Domain Interactive Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531969
AUTHORS: Junda Wu, Zhihui Xie, Tong Yu, Handong Zhao, Ruiyi Zhang, Shuai Li
HIGHLIGHT: Few have explored how the temporally dynamic user-item interaction patterns transform across domains. Motivated by the above consideration, we propose DACIR, a novel Doubly-Adaptive deep RL-based framework for Cross-domain Interactive Recommendation.

32, TITLE: Exploring Modular Task Decomposition in Cross-domain Named Entity Recognition
https://dl.acm.org/doi/abs/10.1145/3477495.3531976
AUTHORS: Xinghua Zhang, Bowen Yu, Yubin Wang, Tingwen Liu, Taoyu Su, Hongbo Xu
HIGHLIGHT: In this paper, we aim to explore the task decomposition in cross-domain NER.

33, TITLE: Exploiting Variational Domain-Invariant User Embedding for Partially Overlapped Cross Domain Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531975
AUTHORS: Weiming Liu, Xiaolin Zheng, Jiajie Su, Mengling Hu, Yanchao Tan, Chaochao Chen
HIGHLIGHT: In this paper, we focus on the Partially Overlapped Cross-Domain Recommendation (POCDR) problem, that is, how to leverage the information of both the overlapped and non-overlapped users to improve recommendation performance.

34, TITLE: HIEN: Hierarchical Intention Embedding Network for Click-Through Rate Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531988
AUTHORS: Zuowu Zheng, Changwang Zhang, Xiaofeng Gao, Guihai Chen
HIGHLIGHT: Based on this observation, in this paper, we propose a novel approach Hierarchical Intention Embedding Network (HIEN), which considers dependencies of attributes based on bottom-up tree aggregation in the constructed attribute graph.

35, TITLE: NAS-CTR: Efficient Neural Architecture Search for Click-Through Rate Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3532030
AUTHORS: Guanghui Zhu, Feng Cheng, Defu Lian, Chunfeng Yuan, Yihua Huang
HIGHLIGHT: Therefore, it is essential to explore a more efficient architecture search method. To achieve this goal, we propose NAS-CTR, a differentiable neural architecture search approach for CTR prediction.

36, TITLE: Enhancing CTR Prediction with Context-Aware Feature Representation Learning
https://dl.acm.org/doi/abs/10.1145/3477495.3531970
AUTHORS: Fangye Wang, Yingxu Wang, Dongsheng Li, Hansu Gu, Tun Lu, Peng Zhang, Ning Gu
HIGHLIGHT: In this paper, we propose a novel module named Feature Refinement Network (FRNet), which learns context-aware feature representations at bit-level for each feature in different contexts.

37, TITLE: Neighbour Interaction based Click-Through Rate Prediction via Graph-masked Transformer
https://dl.acm.org/doi/abs/10.1145/3477495.3532031
AUTHORS: Erxue Min, Yu Rong, Tingyang Xu, Yatao Bian, Da Luo, Kangyi Lin, Junzhou Huang, Sophia Ananiadou, Peilin Zhao
HIGHLIGHT: Although these methods have made great progress, they are often limited by the recommender system's direct exposure and inactive interactions, and thus fail to mine all potential user interests. To tackle these problems, we propose Neighbor-Interaction based CTR prediction (NI-CTR), which considers this task under a Heterogeneous Information Network (HIN) setting.

38, TITLE: ESCM2: Entire Space Counterfactual Multi-Task Model for Post-Click Conversion Rate Estimation
https://dl.acm.org/doi/abs/10.1145/3477495.3531972
AUTHORS: Hao Wang, Tai-Wei Chang, Tianqiao Liu, Jianmin Huang, Zhichao Chen, Chao Yu, Ruopeng Li, Wei Chu
HIGHLIGHT: In this paper, we theoretically demonstrate that ESMM suffers from the following two problems: (1) Inherent Estimation Bias (IEB) for CVR estimation, where the CVR estimate is inherently higher than the ground truth; (2) Potential Independence Priority (PIP) for CTCVR estimation, where ESMM might overlook the causality from click to conversion.

39, TITLE: Target-aware Abstractive Related Work Generation with Contrastive Learning
https://dl.acm.org/doi/abs/10.1145/3477495.3532065
AUTHORS: Xiuying Chen, Hind Alamro, Mingzhe Li, Shen Gao, Rui Yan, Xin Gao, Xiangliang Zhang
HIGHLIGHT: Hence, in this paper, we propose an abstractive target-aware related work generator (TAG), which can generate related work sections consisting of new sentences.

40, TITLE: A Study of Cross-Session Cross-Device Search Within an Academic Digital Library
https://dl.acm.org/doi/abs/10.1145/3477495.3531929
AUTHORS: Sebastian Gomes, Miriam Boon, Orland Hoeber
HIGHLIGHT: To support such searching, we have developed an academic digital library search interface that assists searchers in managing cross-session search tasks even when moving between mobile and desktop environments.

41, TITLE: DAWAR: Diversity-aware Web APIs Recommendation for Mashup Creation based on Correlation Graph
https://dl.acm.org/doi/abs/10.1145/3477495.3531962
AUTHORS: Wenwen Gong, Xuyun Zhang, Yifei Chen, Qiang He, Amin Beheshti, Xiaolong Xu, Chao Yan, Lianyong Qi
HIGHLIGHT: However, traditional keyword search methods for APIs often suffer from several critical issues such as functional compatibility and limited diversity in search results, which may lead to mashup creation failures and lower development productivity. To deal with these challenges, this paper designs DAWAR, a diversity-aware Web APIs recommendation approach that finds diversified and compatible APIs for mashup creation.

42, TITLE: Introducing Problem Schema with Hierarchical Exercise Graph for Knowledge Tracing
https://dl.acm.org/doi/abs/10.1145/3477495.3532004
AUTHORS: Hanshuang Tong, Zhen Wang, Yun Zhou, Shiwei Tong, Wenyuan Han, Qi Liu

HIGHLIGHT: Besides, the existing diagnosis results of knowledge tracing are not convincing enough since they neglect hierarchical relations between exercises. To solve the above problems, we propose a hierarchical graph knowledge tracing model called HGKT to explore the latent complex relations between exercises.

43, TITLE: A Robust Computerized Adaptive Testing Approach in Educational Question Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531928
AUTHORS: Yan Zhuang, Qi Liu, Zhenya Huang, Zhi Li, Binbin Jin, Haoyang Bi, Enhong Chen, Shijin Wang
HIGHLIGHT: Specifically, we present a generic optimization criterion Robust Adaptive Testing (RAT) for proficiency estimation via fusing multiple estimates at each step, which maintains a multi-facet description of student's potential proficiency.

44, TITLE: Assessing Student's Dynamic Knowledge State by Exploring the Question Difficulty Effect
https://dl.acm.org/doi/abs/10.1145/3477495.3531939
AUTHORS: Shuanghong Shen, Zhenya Huang, Qi Liu, Yu Su, Shijin Wang, Enhong Chen
HIGHLIGHT: In this paper, we focus on exploring the question difficulty effect on learning to improve student's knowledge state assessment and propose the DIfficulty Matching Knowledge Tracing (DIMKT) model.

45, TITLE: Incorporating Retrieval Information into the Truncation of Ranking Lists for Better Legal Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531998
AUTHORS: Yixiao Ma, Qingyao Ai, Yueyue Wu, Yunqiu Shao, Yiqun Liu, Min Zhang, Shaoping Ma
HIGHLIGHT: These existing efforts also treat result list truncation as an isolated task instead of a component in the entire ranking process, limiting the usage of truncation in practical systems. To tackle these limitations, we propose LeCut, a ranking list truncation model for legal case retrieval.

46, TITLE: MetaCare++: Meta-Learning with Hierarchical Subtyping for Cold-Start Diagnosis Prediction in Healthcare Data
https://dl.acm.org/doi/abs/10.1145/3477495.3532020
AUTHORS: Yanchao Tan, Carl Yang, Xiangyu Wei, Chaochao Chen, Weiming Liu, Longfei Li, Jun Zhou, Xiaolin Zheng
HIGHLIGHT: To this end, we first propose a novel Meta-learning framework for cold-start diagnosis prediction in healthCare data (MetaCare). By explicitly encoding the effects of disease progress over time as a generalization prior, MetaCare dynamically predicts future diagnosis and timestamp for infrequent patients. Then, to model complicated relations among rare diseases, we propose to utilize domain knowledge of hierarchical relations among diseases, and further perform diagnosis subtyping to mine the latent syndromic relations among diseases.

47, TITLE: Interpreting Patient Descriptions using Distantly Supervised Similar Case Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3532003
AUTHORS: Israa Alghanmi, Luis Espinosa-Anke, Steven Schockaert
HIGHLIGHT: Moreover, retrieval augmented strategies have only had limited success, as it is rare to find sentences which express the exact type of knowledge that is needed for interpreting a given patient description. For this reason, rather than attempting to retrieve explicit medical knowledge, we instead propose to rely on a nearest neighbour strategy.

48, TITLE: Few-shot Node Classification on Attributed Networks with Graph Meta-learning
https://dl.acm.org/doi/abs/10.1145/3477495.3531978
AUTHORS: Yonghao Liu, Mengyu Li, Ximing Li, Fausto Giunchiglia, Xiaoyue Feng, Renchu Guan
HIGHLIGHT: More specifically, we introduce an efficient method for learning expressive node representations even on heterophilic graphs and propose utilizing a prototype-based approach to initialize parameters in meta-learning.

49, TITLE: Personalized Fashion Compatibility Modeling via Metapath-guided Heterogeneous Graph Learning
https://dl.acm.org/doi/abs/10.1145/3477495.3532038
AUTHORS: Weili Guan, Fangkai Jiao, Xuemeng Song, Haokun Wen, Chung-Hsing Yeh, Xiaojun Chang
HIGHLIGHT: Despite their significance, these PFCM methods mainly concentrate on the user and item entities, as well as their interactions, but ignore the attribute entities, which contain rich semantics. To address this problem, we propose to fully explore the related entities and their relations involved in PFCM to boost the PFCM performance.

50, TITLE: KETCH: Knowledge Graph Enhanced Thread Recommendation in Healthcare Forums
https://dl.acm.org/doi/abs/10.1145/3477495.3532008
AUTHORS: Limeng Cui, Dongwon Lee
HIGHLIGHT: Therefore, it is critical to not only consider the connections between users and threads, but also the descriptions of users' symptoms and clinical conditions. In this paper, towards this problem of thread recommendation in online healthcare forums, we propose a knowledge graph enhanced Threads Recommendation (KETCH) model, which leverages graph neural networks to model the interactions among users and threads, and learn their representations.

51, TITLE: Recognizing Medical Search Query Intent by Few-shot Learning
https://dl.acm.org/doi/abs/10.1145/3477495.3531789
AUTHORS: Yaqing Wang, Song Wang, Yanyan Li, Dejing Dou
HIGHLIGHT: In addition, many intents only have a few labeled data. To handle these problems, we propose a few-shot learning method for medical search query intent recognition called MEDIC.

52, TITLE: Single-shot Embedding Dimension Search in Recommender System
https://dl.acm.org/doi/abs/10.1145/3477495.3532060
AUTHORS: Liang Qu, Yonghong Ye, Ningzhi Tang, Lixin Zhang, Yuhui Shi, Hongzhi Yin

HIGHLIGHT: In this paper, we propose a Single-Shot Embedding Dimension Search method, called SSEDS, which can efficiently assign dimensions for each feature field via a single-shot embedding pruning operation while maintaining the recommendation accuracy of the model.

53, TITLE: Forest-based Deep Recommender
https://dl.acm.org/doi/abs/10.1145/3477495.3531980
AUTHORS: Chao Feng, Defu Lian, Zheng Liu, Xing Xie, Le Wu, Enhong Chen
HIGHLIGHT: To this end, we propose a Deep Forest-based Recommender (DeFoRec for short) for an efficient recommendation.

54, TITLE: Scalable Exploration for Neural Online Learning to Rank with Perturbed Feedback
https://dl.acm.org/doi/abs/10.1145/3477495.3532057
AUTHORS: Yiling Jia, Hongning Wang
HIGHLIGHT: In this work, we propose an efficient exploration strategy for online interactive neural ranker learning based on bootstrapping.

55, TITLE: On-Device Next-Item Recommendation with Self-Supervised Knowledge Distillation
https://dl.acm.org/doi/abs/10.1145/3477495.3531775
AUTHORS: Xin Xia, Hongzhi Yin, Junliang Yu, Qinyong Wang, Guandong Xu, Quoc Viet Hung Nguyen
HIGHLIGHT: In this paper, we explore ultra-compact models for next-item recommendation, by loosing the constraint of dimensionality consistency in tensor decomposition.

56, TITLE: IR Evaluation and Learning in the Presence of Forbidden Documents
https://dl.acm.org/doi/abs/10.1145/3477495.3532006
AUTHORS: David Carmel, Nachshon Cohen, Amir Ingber, Elad Kravi
HIGHLIGHT: In this work we propose nDCGf, a novel extension of the nDCGmin metric[14], which measures both ranking and filtering quality of the search results.

57, TITLE: Human Preferences as Dueling Bandits
https://dl.acm.org/doi/abs/10.1145/3477495.3531991
AUTHORS: Xinyi Yan, Chengxi Luo, Charles L. A. Clarke, Nick Craswell, Ellen M. Voorhees, Pablo Castells
HIGHLIGHT: We frame the problem of finding best items as a dueling bandits problem.

58, TITLE: A Flexible Framework for Offline Effectiveness Metrics
https://dl.acm.org/doi/abs/10.1145/3477495.3531924
AUTHORS: Alistair Moffat, Joel Mackenzie, Paul Thomas, Leif Azzopardi
HIGHLIGHT: Here we introduce a user behavior framework that extends the C/W/L family.

59, TITLE: Ranking Interruptus: When Truncated Rankings Are Better and How to Measure That
https://dl.acm.org/doi/abs/10.1145/3477495.3532051
AUTHORS: Enrique Amigó, Stefano Mizzaro, Damiano Spina
HIGHLIGHT: In this paper we provide both theoretical and experimental contributions. We first define formal properties to analyze how effectiveness metrics behave when evaluating truncated rankings.

60, TITLE: Offline Retrieval Evaluation Without Evaluation Metrics
https://dl.acm.org/doi/abs/10.1145/3477495.3532033
AUTHORS: Fernando Diaz, Andres Ferraro
HIGHLIGHT: We propose recall-paired preference (RPP), a metric-free evaluation method based on directly computing a preference between ranked lists.

61, TITLE: Information Need Awareness: An EEG Study
https://dl.acm.org/doi/abs/10.1145/3477495.3531999
AUTHORS: Dominika Michalkova, Mario Parra-Rodriguez, Yashar Moshfeghi
HIGHLIGHT: This paper aims to investigate this research question by inferring the variability of brain activity based on the contrast of a state of IN with the two other (no-IN) scenarios.

62, TITLE: Offline Evaluation of Ranked Lists using Parametric Estimation of Propensities
https://dl.acm.org/doi/abs/10.1145/3477495.3532032
AUTHORS: Vishwa Vinay, Manoj Kilaru, David Arbour
HIGHLIGHT: A majority of offline evaluation approaches invoke the well studied inverse propensity weighting to adjust for biases inherent in logged data. In this paper, we propose the use of parametric estimates for these propensities.

63, TITLE: Why Don't You Click: Understanding Non-Click Results in Web Search with Brain Signals
https://dl.acm.org/doi/abs/10.1145/3477495.3532082
AUTHORS: Ziyi Ye, Xiaohui Xie, Yiqun Liu, Zhihong Wang, Xuancheng Li, Jiaji Li, Xuesong Chen, Min Zhang, Shaoping Ma
HIGHLIGHT: To this end, we analyze the differences in brain signals between the examination of non-click search results in different usefulness levels.

64, TITLE: Post Processing Recommender Systems with Knowledge Graphs for Recency, Popularity, and Diversity of Explanations
https://dl.acm.org/doi/abs/10.1145/3477495.3532041
AUTHORS: Giacomo Balloccu, Ludovico Boratto, Gianni Fenu, Mirko Marras
HIGHLIGHT: In this paper, we conceptualized three novel properties that model the quality of the explanations (linking interaction recency, shared entity popularity, and explanation type diversity) and proposed re-ranking approaches able to optimize for these properties.

65, TITLE: Explainable Legal Case Matching via Inverse Optimal Transport-based Rationale Extraction
https://dl.acm.org/doi/abs/10.1145/3477495.3531974
AUTHORS: Weijie Yu, Zhongxiang Sun, Jun Xu, Zhenhua Dong, Xu Chen, Hongteng Xu, Ji-Rong Wen
HIGHLIGHT: This task has a high demand on the explainability of matching results because of its critical impacts on downstream applications --- the matched legal cases may provide supportive evidence for the judgments of target cases and thus influence the fairness and justice of legal decisions. Focusing on this challenging task, we propose a novel and explainable method, namely IOT-Match, with the help of computational optimal transport, which formulates the legal case matching problem as an inverse optimal transport (IOT) problem.

66, TITLE: Towards Explainable Search Results: A Listwise Explanation Generator
https://dl.acm.org/doi/abs/10.1145/3477495.3532067
AUTHORS: Puxuan Yu, Razieh Rahimi, James Allan
HIGHLIGHT: Furthermore, these models provide a single query aspect for each document, even though documents often cover multiple query aspects. To overcome these limitations, we propose LiEGe, an approach that jointly explains all documents in a search result list.

67, TITLE: Explainable Fairness in Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531973
AUTHORS: Yingqiang Ge, Juntao Tan, Yan Zhu, Yinglong Xia, Jiebo Luo, Shuchang Liu, Zuohui Fu, Shijie Geng, Zelong Li, Yongfeng Zhang
HIGHLIGHT: In this paper, we study the problem of explainable fairness, which helps to gain insights about why a system is fair or unfair, and guides the design of fair recommender systems with a more informed and unified methodology.

68, TITLE: PEVAE: A Hierarchical VAE for Personalized Explainable Recommendation.
https://dl.acm.org/doi/abs/10.1145/3477495.3532039
AUTHORS: Zefeng Cai, Zerui Cai
HIGHLIGHT: Thus, we aim to extend VAE to explainable recommendation.

69, TITLE: Joint Multisided Exposure Fairness for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532007
AUTHORS: Haolun Wu, Bhaskar Mitra, Chen Ma, Fernando Diaz, Xue Liu
HIGHLIGHT: Specifically, we consider group attributes for both types of stakeholders to identify and mitigate fairness concerns that go beyond individual users and items towards more systemic biases in recommendation.

70, TITLE: Probabilistic Permutation Graph Search: Black-Box Optimization for Fairness in Ranking
https://dl.acm.org/doi/abs/10.1145/3477495.3532045
AUTHORS: Ali Vardasbi, Fatemeh Sarvi, Maarten de Rijke
HIGHLIGHT: In this paper, we present a novel way of representing permutation distributions, based on the notion of permutation graphs.

71, TITLE: Measuring Fairness in Ranked Results: An Analytical and Empirical Comparison
https://dl.acm.org/doi/abs/10.1145/3477495.3532018
AUTHORS: Amifa Raj, Michael D. Ekstrand
HIGHLIGHT: We aim to bridge the gap between theoretical and practical ap-plication of these metrics. In this paper we describe several fair ranking metrics from the existing literature in a common notation, enabling direct comparison of their approaches and assumptions, and empirically compare them on the same experimental setup and data sets in the context of three information access tasks.

72, TITLE: Optimizing Generalized Gini Indices for Fairness in Rankings
https://dl.acm.org/doi/abs/10.1145/3477495.3532035
AUTHORS: Virginie Do, Nicolas Usunier
HIGHLIGHT: Inspired by the domain of inequality measurement in economics, this paper explores the use of generalized Gini welfare functions (GGFs) as a means to specify the normative criterion that recommender systems should optimize for.

73, TITLE: Pareto-Optimal Fairness-Utility Amortizations in Rankings with a DBN Exposure Model
https://dl.acm.org/doi/abs/10.1145/3477495.3532036
AUTHORS: Till Kletti, Jean-Michel Renders, Patrick Loiseau
HIGHLIGHT: We lay out the structure of a new geometrical object (the DBN-expohedron), and propose for it a Carathéodory decomposition algorithm of complexity $O(n^3)$, where n is the number of documents to rank.

74, TITLE: Fairness of Exposure in Light of Incomplete Exposure Estimation
https://dl.acm.org/doi/abs/10.1145/3477495.3531977

AUTHORS: Maria Heuss, Fatemeh Sarvi, Maarten de Rijke
HIGHLIGHT: In this work, we discuss how to approach fairness of exposure in cases where the policy contains rankings of which, due to inter-item dependencies, we cannot reliably estimate the exposure distribution.

75, TITLE: CPFair: Personalized Consumer and Producer Fairness Re-ranking for Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531959
AUTHORS: Mohammadmehdi Naghiaei, Hossein A. Rahmani, Yashar Deldjoo
HIGHLIGHT: In this work, we present an optimization-based re-ranking approach that seamlessly integrates fairness constraints from both the consumer and producer-side in a joint objective framework.

76, TITLE: Structure and Semantics Preserving Document Representations
https://dl.acm.org/doi/abs/10.1145/3477495.3532062
AUTHORS: Natraj Raman, Sameena Shah, Manuela Veloso
HIGHLIGHT: We propose here a holistic approach to learning document representations by integrating intra-document content with inter-document relations.

77, TITLE: Counterfactual Learning To Rank for Utility-Maximizing Query Autocompletion
https://dl.acm.org/doi/abs/10.1145/3477495.3531958
AUTHORS: Adam Block, Rahul Kidambi, Daniel N. Hill, Thorsten Joachims, Inderjit S. Dhillon
HIGHLIGHT: A shortcoming of this approach is that users often do not know which query will provide the best retrieval performance on the current information retrieval system, meaning that any query autocompletion methods trained to mimic user behavior can lead to suboptimal query suggestions. To overcome this limitation, we propose a new approach that explicitly optimizes the query suggestions for downstream retrieval performance.

78, TITLE: Risk-Sensitive Deep Neural Learning to Rank
https://dl.acm.org/doi/abs/10.1145/3477495.3532056
AUTHORS: Pedro Henrique Silva Rodrigues, Daniel Xavier Sousa, Thierson Couto Rosa, Marcos André Gonçalves
HIGHLIGHT: However, the risk-sensitive measures described in the literature have a non-smooth behavior, making them difficult, if not impossible, to be optimized by DNNs. In this work we solve this difficult problem by proposing a family of new loss functions -- \riskloss\ -- that support a smooth risk-sensitive optimization.

79, TITLE: RankFlow: Joint Optimization of Multi-Stage Cascade Ranking Systems as Flows
https://dl.acm.org/doi/abs/10.1145/3477495.3532050
AUTHORS: Jiarui Qin, Jiachen Zhu, Bo Chen, Zhirong Liu, Weiwen Liu, Ruiming Tang, Rui Zhang, Yong Yu, Weinan Zhang
HIGHLIGHT: This paper provides an elaborate analysis of this commonly used solution to reveal its limitations. By studying the essence of cascade ranking, we propose a joint training framework named RankFlow to alleviate the SSB issue and exploit the interactions between the cascade rankers, which is the first systematic solution for this topic.

80, TITLE: LoL: A Comparative Regularization Loss over Query Reformulation Losses for Pseudo-Relevance Feedback
https://dl.acm.org/doi/abs/10.1145/3477495.3532017
AUTHORS: Yunchang Zhu, Liang Pang, Yanyan Lan, Huawei Shen, Xueqi Cheng
HIGHLIGHT: Ideally, if a PRF model can distinguish between irrelevant and relevant information in the feedback, the more feedback documents there are, the better the revised query will be. To bridge this gap, we propose the Loss-over-Loss (LoL) framework to compare the reformulation losses between different revisions of the same query during training.

81, TITLE: Few-Shot Stance Detection via Target-Aware Prompt Distillation
https://dl.acm.org/doi/abs/10.1145/3477495.3531979
AUTHORS: Yan Jiang, Jinhua Gao, Huawei Shen, Xueqi Cheng
HIGHLIGHT: In this paper, inspired by the potential capability of pre-trained language models (PLMs) serving as knowledge bases and few-shot learners, we propose to introduce prompt-based fine-tuning for stance detection.

82, TITLE: Pre-train a Discriminative Text Encoder for Dense Retrieval via Contrastive Span Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531772
AUTHORS: Xinyu Ma, Jiafeng Guo, Ruqing Zhang, Yixing Fan, Xueqi Cheng
HIGHLIGHT: However, we argue that 1) it is not discriminative to decode all the input texts and, 2) even a weak decoder has the bypass effect on the encoder. Therefore, in this work, we introduce a novel contrastive span prediction task to pre-train the encoder alone, but still retain the bottleneck ability of the autoencoder.

83, TITLE: Co-clustering Interactions via Attentive Hypergraph Neural Network
https://dl.acm.org/doi/abs/10.1145/3477495.3531868
AUTHORS: Tianchi Yang, Cheng Yang, Luhao Zhang, Chuan Shi, Maodi Hu, Huaijun Liu, Tao Li, Dong Wang
HIGHLIGHT: However, they only model and leverage part of the information in real entire interactions, i.e., either decompose the entire interaction into several pair-wise sub-interactions for simplification, or only focus on clustering some specific types of objects, which limits the performance and explainability of clustering. To tackle this issue, we propose to Co-cluster the Interactions via Attentive Hypergraph neural network (CIAH).

84, TITLE: Adaptable Text Matching via Meta-Weight Regulator
https://dl.acm.org/doi/abs/10.1145/3477495.3531932

AUTHORS: Bo Zhang, Chen Zhang, Fang Ma, Dawei Song
HIGHLIGHT: However, adapting a model trained on the abundant source data to a few-shot target dataset or task is challenging. To tackle this challenge, we propose a Meta-Weight Regulator (MWR), which is a meta-learning approach that learns to assign weights to the source examples based on their relevance to the target loss.

85, TITLE: Incorporating Context Graph with Logical Reasoning for Inductive Relation Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531996
AUTHORS: Qika Lin, Jun Liu, Fangzhi Xu, Yudai Pan, Yifan Zhu, Lingling Zhang, Tianzhe Zhao
HIGHLIGHT: However, it is challenging to precisely conduct inductive relation prediction as there exists requirements of entity-independent relation modeling and discrete logical reasoning for interoperability. To this end, we propose a novel model ConGLR to incorporate context graph with logical reasoning.

86, TITLE: Hybrid Transformer with Multi-level Fusion for Multimodal Knowledge Graph Completion
https://dl.acm.org/doi/abs/10.1145/3477495.3531992
AUTHORS: Xiang Chen, Ningyu Zhang, Lei Li, Shumin Deng, Chuanqi Tan, Changliang Xu, Fei Huang, Luo Si, Huajun Chen
HIGHLIGHT: In this paper, we propose a hybrid transformer with multi-level fusion to address those issues.

87, TITLE: Re-thinking Knowledge Graph Completion Evaluation from an Information Retrieval Perspective
https://dl.acm.org/doi/abs/10.1145/3477495.3532052
AUTHORS: Ying Zhou, Xuanang Chen, Ben He, Zheng Ye, Le Sun
HIGHLIGHT: Due to the incomplete nature of the large-scale knowledge bases, such an entity ranking setting is likely affected by unlabelled top-ranked positive examples, raising questions on whether the current evaluation protocol is sufficient to guarantee a fair comparison of KGC systems. To this end, this paper presents a systematic study on whether and how the label sparsity affects the current KGC evaluation with the popular micro metrics.

88, TITLE: Meta-Knowledge Transfer for Inductive Knowledge Graph Embedding
https://dl.acm.org/doi/abs/10.1145/3477495.3531757
AUTHORS: Mingyang Chen, Wen Zhang, Yushan Zhu, Hongting Zhou, Zonggang Yuan, Changliang Xu, Huajun Chen
HIGHLIGHT: In this paper, to achieve inductive knowledge graph embedding, we propose a model MorsE, which does not learn embeddings for entities but learns transferable meta-knowledge that can be used to produce entity embeddings.

89, TITLE: Multimodal Entity Linking with Gated Hierarchical Fusion and Contrastive Training
https://dl.acm.org/doi/abs/10.1145/3477495.3531867
AUTHORS: Peng Wang, Jiangheng Wu, Xiaohang Chen
HIGHLIGHT: Consequently, we conceive the idea of introducing valuable information of other modalities, and propose a novel multimodal entity linking method with gated hierarchical multimodal fusion and contrastive training (GHMFC).

90, TITLE: CRET: Cross-Modal Retrieval Transformer for Efficient Text-Video Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531960
AUTHORS: Kaixiang Ji, Jiajia Liu, Weixiang Hong, Liheng Zhong, Jian Wang, Jingdong Chen, Wei Chu
HIGHLIGHT: In this work, we propose a novel EDB method CRET (Cross-modal REtrieval Transformer), which not only demonstrates promising efficiency in retrieval tasks, but also achieves better accuracy than existing MDB methods.

91, TITLE: Multimodal Disentanglement Variational AutoEncoders for Zero-Shot Cross-Modal Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3532028
AUTHORS: Jialin Tian, Kai Wang, Xing Xu, Zuo Cao, Fumin Shen, Heng Tao Shen
HIGHLIGHT: Generally, these methods largely rely on auxiliary semantic embeddings for knowledge transfer across classes and unconsciously neglect the effect of the data reconstruction manner in the adopted generative model. To address this issue, we propose a novel ZS-CMR model termed Multimodal Disentanglement Variational AutoEncoders (MDVAE), which consists of two coupled disentanglement variational autoencoders (DVAEs) and a fusion-exchange VAE (FVAE).

92, TITLE: CenterCLIP: Token Clustering for Efficient Text-Video Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531950
AUTHORS: Shuai Zhao, Linchao Zhu, Xiaohan Wang, Yi Yang
HIGHLIGHT: In this paper, to reduce the number of redundant video tokens, we design a multi-segment token clustering algorithm to find the most representative tokens and drop the non-essential ones.

93, TITLE: Bit-aware Semantic Transformer Hashing for Multi-modal Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531947
AUTHORS: Wentao Tan, Lei Zhu, Weili Guan, Jingjing Li, Zhiyong Cheng
HIGHLIGHT: For solving these problems, in this paper, we propose a Bit-aware Semantic Transformer Hashing (BSTH) framework to excavate bit-wise semantic concepts and simultaneously align the heterogeneous modalities for multi-modal hash learning on the concept-level.

94, TITLE: V2P: Vision-to-Prompt based Multi-Modal Product Summary Generation
https://dl.acm.org/doi/abs/10.1145/3477495.3532076
AUTHORS: Xuemeng Song, Liqiang Jing, Dengtian Lin, Zhongzhou Zhao, Haiqing Chen, Liqiang Nie
HIGHLIGHT: Although existing methods have achieved great success, they still suffer from three key limitations: 1) overlook the benefit of pre-training, 2) lack the representation-level supervision, and 3) ignore the diversity of the seller-generated data. To

address these limitations, in this work, we propose a Vision-to-Prompt based multi-modal product summary generation framework, dubbed as V2P, where a Generative Pre-trained Language Model (GPLM) is adopted as the backbone.

95, TITLE: Learn from Unlabeled Videos for Near-duplicate Video Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3532010
AUTHORS: Xiangteng He, Yulin Pan, Mingqian Tang, Yiliang Lv, Yuxin Peng
HIGHLIGHT: In addition, most retrieval systems are based on frame-level features for video similarity searching, making it expensive both storage wise and search wise. To address the above issues, we propose a video representation learning (VRL) approach to effectively address the above shortcomings.

96, TITLE: Progressive Learning for Image Retrieval with Hybrid-Modality Queries
https://dl.acm.org/doi/abs/10.1145/3477495.3532047
AUTHORS: Yida Zhao, Yuqing Song, Qin Jin
HIGHLIGHT: In this paper, we decompose the CTI-IR task into a three-stage learning problem to progressively learn the complex knowledge for image retrieval with hybrid-modality queries.

97, TITLE: You Need to Read Again: Multi-granularity Perception Network for Moment Retrieval in Videos
https://dl.acm.org/doi/abs/10.1145/3477495.3532083
AUTHORS: Xin Sun, Xuan Wang, Jialin Gao, Qiong Liu, Xi Zhou
HIGHLIGHT: Previous methods tend to perform self-modal learning and cross-modal interaction in a coarse manner, which neglect fine-grained clues contained in video content, query context, and their alignment. To this end, we propose a novel Multi-Granularity Perception Network (MGPN) that perceives intra-modality and inter-modality information at a multi-granularity level.

98, TITLE: Video Moment Retrieval from Text Queries via Single Frame Annotation
https://dl.acm.org/doi/abs/10.1145/3477495.3532078
AUTHORS: Ran Cui, Tianwen Qian, Pai Peng, Elena Daskalaki, Jingjing Chen, Xiaowei Guo, Huyang Sun, Yu-Gang Jiang
HIGHLIGHT: In this paper, we look closer into the annotation process and propose a new paradigm called "glance annotation".

99, TITLE: HTKG: Deep Keyphrase Generation with Neural Hierarchical Topic Guidance
https://dl.acm.org/doi/abs/10.1145/3477495.3531990
AUTHORS: Yuxiang Zhang, Tao Jiang, Tianyu Yang, Xiaoli Li, Suge Wang
HIGHLIGHT: In this paper, we focus on how to effectively exploit the hierarchical topic to improve the keyphrase generation performance (HTKG).

100, TITLE: Logiformer: A Two-Branch Graph Transformer Network for Interpretable Logical Reasoning
https://dl.acm.org/doi/abs/10.1145/3477495.3532016
AUTHORS: Fangzhi Xu, Jun Liu, Qika Lin, Yudai Pan, Lingling Zhang
HIGHLIGHT: Also, it is demanding to uncover the logical structures of the text and further fuse the discrete logic to the continuous text embedding. To tackle the above issues, we propose an end-to-end model Logiformer which utilizes a two-branch graph transformer network for logical reasoning of text.

101, TITLE: Personalized Abstractive Opinion Tagging
https://dl.acm.org/doi/abs/10.1145/3477495.3532037
AUTHORS: Mengxue Zhao, Yang Yang, Miao Li, Jingang Wang, Wei Wu, Pengjie Ren, Maarten de Rijke, Zhaochun Ren
HIGHLIGHT: In this paper, we focus on the task of personalized abstractive opinion tagging.

102, TITLE: Contrastive Learning with Hard Negative Entities for Entity Set Expansion
https://dl.acm.org/doi/abs/10.1145/3477495.3531954
AUTHORS: Yinghui Li, Yangning Li, Yuxin He, Tianyu Yu, Ying Shen, Hai-Tao Zheng
HIGHLIGHT: Although previous ESE methods have achieved great progress, most of them still lack the ability to handle hard negative entities (i.e., entities that are difficult to distinguish from the target entities), since two entities may or may not belong to the same semantic class based on different granularity levels we analyze on. To address this challenge, we devise an entity-level masked language model with contrastive learning to refine the representation of entities.

103, TITLE: Unifying Cross-lingual Summarization and Machine Translation with Compression Rate
https://dl.acm.org/doi/abs/10.1145/3477495.3532071
AUTHORS: Yu Bai, Heyan Huang, Kai Fan, Yang Gao, Yiming Zhu, Jiaao Zhan, Zewen Chi, Boxing Chen
HIGHLIGHT: In this paper, we propose a novel task, Cross-lingual Summarization with Compression rate (CSC), to benefit Cross-Lingual Summarization by large-scale Machine Translation corpus.

104, TITLE: What Makes the Story Forward?: Inferring Commonsense Explanations as Prompts for Future Event Generation
https://dl.acm.org/doi/abs/10.1145/3477495.3532080
AUTHORS: Li Lin, Yixin Cao, Lifu Huang, Shu'Ang Li, Xuming Hu, Lijie Wen, Jianmin Wang
HIGHLIGHT: In this paper, we propose a novel explainable FEG framework, Coep.

105, TITLE: A Dual-Expert Framework for Event Argument Extraction
https://dl.acm.org/doi/abs/10.1145/3477495.3531923
AUTHORS: Rui Li, Wenlin Zhao, Cheng Yang, Sen Su

HIGHLIGHT: Inspired by the Mixture of Experts (MOE), we propose a Routing-Balanced Dual Expert Framework (RBDEF), which divides all roles into "head" and "tail" two scopes and assigns the classifications of head and tail roles to two separate experts.

106, TITLE: CorED: Incorporating Type-level and Instance-level Correlations for Fine-grained Event Detection
https://dl.acm.org/doi/abs/10.1145/3477495.3531956
AUTHORS: Jiawei Sheng, Rui Sun, Shu Guo, Shiyao Cui, Jiangxia Cao, Lihong Wang, Tingwen Liu, Hongbo Xu
HIGHLIGHT: This paper simultaneously incorporates both the type-level and instance-level event correlations, and proposes a novel framework, termed as CorED.

107, TITLE: Hierarchical Multi-Task Graph Recurrent Network for Next POI Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531989
AUTHORS: Nicholas Lim, Bryan Hooi, See-Kiong Ng, Yong Liang Goh, Renrong Weng, Rui Tan
HIGHLIGHT: In this paper, we propose our Hierarchical Multi-Task Graph Recurrent Network (HMT-GRN) approach, which alleviates the data sparsity problem by learning different User-Region matrices of lower sparsities in a multi-task setting.

108, TITLE: GETNext: Trajectory Flow Map Enhanced Transformer for Next POI Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531983
AUTHORS: Song Yang, Jiamou Liu, Kaiqi Zhao
HIGHLIGHT: Instead, we propose a user-agnostic global trajectory flow map and a novel Graph Enhanced Transformer model (GETNext) to better exploit the extensive collaborative signals for a more accurate next POI prediction, and alleviate the cold start problem in the meantime.

109, TITLE: Learning Graph-based Disentangled Representations for Next POI Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532012
AUTHORS: Zhaobo Wang, Yanmin Zhu, Haobing Liu, Chunyang Wang
HIGHLIGHT: In this paper, we propose a novel Disentangled Representation-enhanced Attention Network (DRAN) for next POI recommendation, which leverages the disentangled representations to explicitly model different aspects and corresponding influence for representing a POI more precisely.

110, TITLE: ProFairRec: Provider Fairness-aware News Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532046
AUTHORS: Tao Qi, Fangzhao Wu, Chuhan Wu, Peijie Sun, Le Wu, Xiting Wang, Yongfeng Huang, Xing Xie
HIGHLIGHT: In this paper, we propose a provider fairness-aware news recommendation framework (named ProFairRec), which can learn news recommendation models fair for different news providers from biased user data.

111, TITLE: CAPTOR: A Crowd-Aware Pre-Travel Recommender System for Out-of-Town Users
https://dl.acm.org/doi/abs/10.1145/3477495.3531949
AUTHORS: Haoran Xin, Xinjiang Lu, Nengjun Zhu, Tong Xu, Dejing Dou, Hui Xiong
HIGHLIGHT: Besides, users' out-of-town travel behaviors are affected not only by their personalized preferences but heavily by others' travel behaviors. To this end, we propose a Crowd-Aware Pre-Travel Out-of-town Recommendation framework (CAPTOR) consisting of two major modules: spatial-affined conditional random field (SA-CRF) and crowd behavior memory network (CBMN).

112, TITLE: Positive, Negative and Neutral: Modeling Implicit Feedback in Session-based News Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532040
AUTHORS: Shansan Gong, Kenny Q. Zhu
HIGHLIGHT: Previous works tend to formulate session-based recommendation as a next item prediction task, while they neglect the implicit feedback from user behaviors, which indicates what users really like or dislike. Hence, we propose a comprehensive framework to model user behaviors through positive feedback (i.e., the articles they spend more time on) and negative feedback (i.e., the articles they choose to skip without clicking in).

113, TITLE: A Non-Factoid Question-Answering Taxonomy
https://dl.acm.org/doi/abs/10.1145/3477495.3531926
AUTHORS: Valeriia Bolotova, Vladislav Blinov, Falk Scholer, W. Bruce Croft, Mark Sanderson
HIGHLIGHT: This work presents the first comprehensive taxonomy of NFQ categories and the expected structure of answers.

114, TITLE: QUASER: Question Answering with Scalable Extractive Rationalization
https://dl.acm.org/doi/abs/10.1145/3477495.3532049
AUTHORS: Asish Ghoshal, Srinivasan Iyer, Bhargavi Paranjape, Kushal Lakhotia, Scott Wen-tau Yih, Yashar Mehdad
HIGHLIGHT: In this paper, we introduce unsupervised generative models to extract dual-purpose rationales, which must not only be able to support a subsequent answer prediction, but also support a reproduction of the input query.

115, TITLE: PTAU: Prompt Tuning for Attributing Unanswerable Questions
https://dl.acm.org/doi/abs/10.1145/3477495.3532048
AUTHORS: Jinzhi Liao, Xiang Zhao, Jianming Zheng, Xinyi Li, Fei Cai, Jiuyang Tang
HIGHLIGHT: Thus, a capable model has to carefully appreciate the causes, and then, judiciously contrast the question with its context, in order to cast it into the right cause. In response to the challenges, we present PTAU, which refers to and implements a high-level human reading strategy such that one reads with anticipation.

116, TITLE: DGQAN: Dual Graph Question-Answer Attention Networks for Answer Selection

https://dl.acm.org/doi/abs/10.1145/3477495.3532084
AUTHORS: Haitian Yang, Xuan Zhao, Yan Wang, Min Li, Wei Chen, Weiqing Huang
HIGHLIGHT: However, the redundancy and lengthiness issues of crowd-sourced answers limit the performance of answer selection, thus leading to difficulties in reading or even misunderstandings for community users. To solve these problems, we propose the dual graph question-answer attention networks (DGQAN) for answer selection task.

117, TITLE: ReCANet: A Repeat Consumption-Aware Neural Network for Next Basket Recommendation in Grocery Shopping
https://dl.acm.org/doi/abs/10.1145/3477495.3531708
AUTHORS: Mozhdeh Ariannezhad, Sami Jullien, Ming Li, Min Fang, Sebastian Schelter, Maarten de Rijke
HIGHLIGHT: In this paper, we first gain a data-driven understanding of users' repeat consumption behavior through an empirical study on six public and proprietary grocery shopping transaction datasets.

118, TITLE: User-controllable Recommendation Against Filter Bubbles
https://dl.acm.org/doi/abs/10.1145/3477495.3532075
AUTHORS: Wenjie Wang, Fuli Feng, Liqiang Nie, Tat-Seng Chua
HIGHLIGHT: This work proposes a new recommender prototype called User-Controllable Recommender System (UCRS), which enables users to actively control the mitigation of filter bubbles.

119, TITLE: Unify Local and Global Information for Top-N Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532070
AUTHORS: Xiaoming Liu, Shaocong Wu, Zhaohan Zhang, Chao Shen
HIGHLIGHT: To tackle this research gap, we propose a novel duet representation learning framework named KADM to fuse local information (user-item interaction data) and global information (external knowledge graph) for the top-N recommendation, which is composed of two separate sub-models.

120, TITLE: Less is More: Reweighting Important Spectral Graph Features for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532014
AUTHORS: Shaowen Peng, Kazunari Sugiyama, Tsunenori Mine
HIGHLIGHT: Based on the two findings above, we propose a new GCN learning scheme for recommendation by replacing neihgborhood aggregation with a simple yet effective Graph Denoising Encoder (GDE), which acts as a band pass filter to capture important graph features.

121, TITLE: A Review-aware Graph Contrastive Learning Framework for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531927
AUTHORS: Jie Shuai, Kun Zhang, Le Wu, Peijie Sun, Richang Hong, Meng Wang, Yong Li
HIGHLIGHT: To this end, in this paper, we propose a novel Review-aware Graph Contrastive Learning (RGCL) framework for review-based recommendation.

122, TITLE: Are Graph Augmentations Necessary?: Simple Graph Contrastive Learning for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531937
AUTHORS: Junliang Yu, Hongzhi Yin, Xin Xia, Tong Chen, Lizhen Cui, Quoc Viet Hung Nguyen
HIGHLIGHT: Meanwhile, we reveal that the graph augmentations, which used to be considered necessary, just play a trivial role. Based on this finding, we propose a simple CL method which discards the graph augmentations and instead adds uniform noises to the embedding space for creating contrastive views.

123, TITLE: AutoLossGen: Automatic Loss Function Generation for Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531941
AUTHORS: Zelong Li, Jianchao Ji, Yingqiang Ge, Yongfeng Zhang
HIGHLIGHT: In this paper, inspired by the recent development of automated machine learning, we propose an automatic loss function generation framework, AutoLossGen, which is able to generate loss functions directly constructed from basic mathematical operators without prior knowledge on loss structure.

124, TITLE: Locality-Sensitive State-Guided Experience Replay Optimization for Sparse Rewards in Online Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532015
AUTHORS: Xiaocong Chen, Lina Yao, Julian McAuley, Weili Guan, Xiaojun Chang, Xianzhi Wang
HIGHLIGHT: However, they adapt poorly to the complex environment of online recommender systems and are inefficient in learning an optimal strategy from past experience. As a step to filling this gap, we propose a novel state-aware experience replay model, in which the agent selectively discovers the most relevant and salient experiences and is guided to find the optimal policy for online recommendations.

125, TITLE: User-Aware Multi-Interest Learning for Candidate Matching in Recommenders
https://dl.acm.org/doi/abs/10.1145/3477495.3532073
AUTHORS: Zheng Chai, Zhihong Chen, Chenliang Li, Rong Xiao, Houyi Li, Jiawei Wu, Jingxu Chen, Haihong Tang
HIGHLIGHT: Hence, we are interested in exploiting the benefit of user profile in multi-interest learning to enhance candidate matching performance. To this end, a user-aware multi-interest learning framework (named UMI) is proposed in this paper to exploit both user profile and behavior information for candidate matching.

126, TITLE: Multi-Level Interaction Reranking with User Behavior History

https://dl.acm.org/doi/abs/10.1145/3477495.3532026
AUTHORS: Yunjia Xi, Weiwen Liu, Jieming Zhu, Xilong Zhao, Xinyi Dai, Ruiming Tang, Weinan Zhang, Rui Zhang, Yong Yu
HIGHLIGHT: Lastly, estimating the reranking score on the ordered initial list before reranking may lead to the early scoring problem, thereby yielding suboptimal reranking performance. To address the above issues, we propose a framework named Multi-level Interaction Reranking (MIR).

127, TITLE: Rethinking Reinforcement Learning for Recommendation: A Prompt Perspective
https://dl.acm.org/doi/abs/10.1145/3477495.3531714
AUTHORS: Xin Xin, Tiago Pimentel, Alexandros Karatzoglou, Pengjie Ren, Konstantina Christakopoulou, Zhaochun Ren
HIGHLIGHT: Here we propose a new learning paradigm---namely Prompt-Based Reinforcement Learning (PRL)---for the offline training of RL-based recommendation agents.

128, TITLE: Multi-level Cross-view Contrastive Learning for Knowledge-aware Recommender System
https://dl.acm.org/doi/abs/10.1145/3477495.3532025
AUTHORS: Ding Zou, Wei Wei, Xian-Ling Mao, Ziyang Wang, Minghui Qiu, Feida Zhu, Xin Cao
HIGHLIGHT: Inspired by the recent success of contrastive learning in mining supervised signals from data itself, in this paper, we focus on exploring the contrastive learning in KG-aware recommendation and propose a novel multi-level cross-view contrastive learning mechanism, named MCCLK.

129, TITLE: MGPolicy: Meta Graph Enhanced Off-policy Learning for Recommendations
https://dl.acm.org/doi/abs/10.1145/3477495.3532021
AUTHORS: Xiangmeng Wang, Qian Li, Dianer Yu, Zhichao Wang, Hongxu Chen, Guandong Xu
HIGHLIGHT: In this paper, we propose meta graph enhanced off-policy learning (MGPolicy), which is the first recommendation model for correcting the off-policy bias via contextual information.

130, TITLE: Privacy-Preserving Synthetic Data Generation for Recommendation Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3532044
AUTHORS: Fan Liu, Zhiyong Cheng, Huilin Chen, Yinwei Wei, Liqiang Nie, Mohan Kankanhalli
HIGHLIGHT: The problem of privacy leakage still exists when directly sharing the private user interaction data with organizations or releasing them to the public. To address this problem, in this paper, we present a User Privacy Controllable Synthetic Data Generation model (short for UPC-SDG), which generates synthetic interaction data for users based on their privacy preferences.

131, TITLE: HAKG: Hierarchy-Aware Knowledge Gated Network for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531987
AUTHORS: Yuntao Du, Xinjun Zhu, Lu Chen, Baihua Zheng, Yunjun Gao
HIGHLIGHT: In this paper, we propose a new model, called Hierarchy-Aware Knowledge Gated Network (HAKG), to tackle the aforementioned problems.

132, TITLE: Alleviating Spurious Correlations in Knowledge-aware Recommendations through Counterfactual Generator
https://dl.acm.org/doi/abs/10.1145/3477495.3531934
AUTHORS: Shanlei Mu, Yaliang Li, Wayne Xin Zhao, Jingyuan Wang, Bolin Ding, Ji-Rong Wen
HIGHLIGHT: It refers to a knowledge fact that appears causal to the user behaviors (inferred by the recommender) but is not in fact. For tackling this issue, we present a novel approach to discovering and alleviating the potential spurious correlations from a counterfactual perspective.

133, TITLE: Self-Guided Learning to Denoise for Robust Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532059
AUTHORS: Yunjun Gao, Yuntao Du, Yujia Hu, Lu Chen, Xinjun Zhu, Ziquan Fang, Baihua Zheng
HIGHLIGHT: In this paper, we thoroughly investigate the memorization effect of recommendation models, and propose a new denoising paradigm, i.e., Self-Guided Denoising Learning (SGDL), which is able to collect memorized interactions at the early stage of the training (i.e., "noise-resistant" period), and leverage those data as denoising signals to guide the following training (i.e., "noise-sensitive" period) of the model in a meta-learning manner.

134, TITLE: Deployable and Continuable Meta-learning-Based Recommender System with Fast User-Incremental Updates
https://dl.acm.org/doi/abs/10.1145/3477495.3531964
AUTHORS: Renchu Guan, Haoyu Pang, Fausto Giunchiglia, Ximing Li, Xuefeng Yang, Xiaoyue Feng
HIGHLIGHT: In this paper, we propose a d eployable and c ontinuable m eta-learning-based r ecommendation (DCMR) approach, which can achieve fast user-incremental updating with task replay and first-order gradient descent.

135, TITLE: Knowledge Graph Contrastive Learning for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532009
AUTHORS: Yuhao Yang, Chao Huang, Lianghao Xia, Chenliang Li
HIGHLIGHT: Specifically, we propose a knowledge graph augmentation schema to suppress KG noise in information aggregation, and derive more robust knowledge-aware representations for items.

136, TITLE: CharacterBERT and Self-Teaching for Improving the Robustness of Dense Retrievers on Queries with Typos
https://dl.acm.org/doi/abs/10.1145/3477495.3531951
AUTHORS: Shengyao Zhuang, Guido Zuccon

HIGHLIGHT: Current dense retrievers are not robust to out-of-domain and outlier queries, i.e. their effectiveness on these queries is much poorer than what one would expect. In this paper, we consider a specific instance of such queries: queries that contain typos.

137, TITLE: Entity-aware Transformers for Entity Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531971
AUTHORS: Emma J. Gerritse, Faegheh Hasibi, Arjen P. de Vries
HIGHLIGHT: This paper investigates the following question: Do BERT-based entity retrieval models benefit from additional entity information stored in knowledge graphs? To address this research question, we map entity embeddings into the same input space as a pre-trained BERT model and inject these entity embeddings into the BERT model.

138, TITLE: BERT-ER: Query-specific BERT Entity Representations for Entity Ranking
https://dl.acm.org/doi/abs/10.1145/3477495.3531944
AUTHORS: Shubham Chatterjee, Laura Dietz
HIGHLIGHT: In this work, we present BERT Entity Representations (BERT-ER) which are query-specific vector representations of entities obtained from text that describes how an entity is relevant for a query.

139, TITLE: H-ERNIE: A Multi-Granularity Pre-Trained Language Model for Web Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531986
AUTHORS: Xiaokai Chu, Jiashu Zhao, Lixin Zou, Dawei Yin
HIGHLIGHT: In particular, we propose a novel H-ERNIE framework, which includes a query-document analysis component and a hierarchical ranking component.

140, TITLE: Incorporating Explicit Knowledge in Pre-trained Language Models for Passage Re-ranking
https://dl.acm.org/doi/abs/10.1145/3477495.3531997
AUTHORS: Qian Dong, Yiding Liu, Suqi Cheng, Shuaiqiang Wang, Zhicong Cheng, Shuzi Niu, Dawei Yin
HIGHLIGHT: To leverage a reliable knowledge, we propose a novel knowledge graph distillation method and obtain a knowledge meta graph as the bridge between query and passage.

141, TITLE: Webformer: Pre-training with Web Pages for Information Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3532086
AUTHORS: Yu Guo, Zhengyi Ma, Jiaxin Mao, Hongjin Qian, Xinyu Zhang, Hao Jiang, Zhao Cao, Zhicheng Dou
HIGHLIGHT: In this paper, we propose to leverage large-scale web pages and their DOM (Document Object Model) tree structures to pre-train models for information retrieval.

142, TITLE: Distill-VQ: Learning Retrieval Oriented Vector Quantization By Distilling Knowledge from Dense Embeddings
https://dl.acm.org/doi/abs/10.1145/3477495.3531799
AUTHORS: Shitao Xiao, Zheng Liu, Weihao Han, Jianjin Zhang, Defu Lian, Yeyun Gong, Qi Chen, Fan Yang, Hao Sun, Yingxia Shao, Xing Xie
HIGHLIGHT: In this paper, we propose Distill-VQ, which unifies the learning of IVF and PQ within a knowledge distillation framework.

143, TITLE: Axiomatically Regularized Pre-training for Ad hoc Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531943
AUTHORS: Jia Chen, Yiqun Liu, Yan Fang, Jiaxin Mao, Hui Fang, Shenghao Yang, Xiaohui Xie, Min Zhang, Shaoping Ma
HIGHLIGHT: To shed light on this research question, we propose a novel pre-training method with \underlineA xiomatic \underlineRe gularization for ad hoc \underlineS earch (ARES).

144, TITLE: Automatic Expert Selection for Multi-Scenario and Multi-Task Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531942
AUTHORS: Xinyu Zou, Zhi Hu, Yiming Zhao, Xuchu Ding, Zhongyi Liu, Chenliang Li, Aixin Sun
HIGHLIGHT: In this paper, we propose a novel Automatic Expert Selection framework for Multi-scenario and Multi-task search, named AESM2.

145, TITLE: Tag-assisted Multimodal Sentiment Analysis under Uncertain Missing Modalities
https://dl.acm.org/doi/abs/10.1145/3477495.3532064
AUTHORS: Jiandian Zeng, Tianyi Liu, Jiantao Zhou
HIGHLIGHT: To this end, in this paper, we propose a Tag-Assisted Transformer Encoder (TATE) network to handle the problem of missing uncertain modalities.

146, TITLE: Mutual Disentanglement Learning for Joint Fine-Grained Sentiment Classification and Controllable Text Generation
https://dl.acm.org/doi/abs/10.1145/3477495.3532029
AUTHORS: Hao Fei, Chenliang Li, Donghong Ji, Fei Li
HIGHLIGHT: Most of the existing work solves the FGSC and the FGSG tasks in isolation, while ignoring the complementary benefits in between. This paper combines FGSC and FGSG as a joint dual learning system, encouraging them to learn the advantages from each other.

147, TITLE: Graph Adaptive Semantic Transfer for Cross-domain Sentiment Classification
https://dl.acm.org/doi/abs/10.1145/3477495.3531984

AUTHORS: Kai Zhang, Qi Liu, Zhenya Huang, Mingyue Cheng, Kun Zhang, Mengdi Zhang, Wei Wu, Enhong Chen
HIGHLIGHT: As an important aspect of exploring characteristics of language comprehension, adaptive graph representations have played an essential role in recent years. To this end, in the paper, we aim to explore the possibility of learning invariant semantic features from graph-like structures in CDSC.

148, TITLE: Aspect Feature Distillation and Enhancement Network for Aspect-based Sentiment Analysis
https://dl.acm.org/doi/abs/10.1145/3477495.3531938
AUTHORS: Rui Liu, Jiahao Cao, Nannan Sun, Lei Jiang
HIGHLIGHT: Moreover, the cross-entropy loss lacks discriminative learning of features, which makes it difficult to exploit the implicit information of intra-class compactness and inter-class separability. To overcome these challenges, we propose an Aspect Feature Distillation and Enhancement Network (AFDEN) for the ABSA task.

149, TITLE: IAOTP: An Interactive End-to-End Solution for Aspect-Opinion Term Pairs Extraction
https://dl.acm.org/doi/abs/10.1145/3477495.3532085
AUTHORS: Ambreen Nazir, Yuan Rao
HIGHLIGHT: Some existing studies heavily relied on the annotated aspect terms and/or opinion terms, or adopted external knowledge/resources to figure out the task. Therefore, in this study, we propose a novel end-to-end solution, called an Interactive AOTP (IAOTP) model, for exploring AOTP.

150, TITLE: Ada-Ranker: A Data Distribution Adaptive Ranking Paradigm for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531931
AUTHORS: Xinyan Fan, Jianxun Lian, Wayne Xin Zhao, Zheng Liu, Chaozhuo Li, Xing Xie
HIGHLIGHT: In this paper, we propose a new training and inference paradigm, termed as Ada-Ranker, to address the challenges of dynamic online serving.

151, TITLE: Decoupled Side Information Fusion for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531963
AUTHORS: Yueqi Xie, Peilin Zhou, Sunghun Kim
HIGHLIGHT: Also, it involves mixed correlations among the different heterogeneous information resources, which brings extra disturbance to attention calculation. Motivated by this, we propose Decoupled Side Information Fusion for Sequential Recommendation (DIF-SR), which moves the side information from the input to the attention layer and decouples the attention calculation of various side information and item representation.

152, TITLE: Multi-Agent RL-based Information Selection Model for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532022
AUTHORS: Kaiyuan Li, Pengfei Wang, Chenliang Li
HIGHLIGHT: In this paper, we introduce a Multi-Agent RL-based Information S election Model (named MARIS) to explore an effective collaboration between different kinds of auxiliary information and sequential signals in an automatic way.

153, TITLE: When Multi-Level Meets Multi-Interest: A Multi-Grained Neural Model for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532081
AUTHORS: Yu Tian, Jianxin Chang, Yanan Niu, Yang Song, Chenliang Li
HIGHLIGHT: To this end, in this paper, we propose a unified multi-grained neural model (named MGNM) via a combination of multi-interest learning and graph convolutional aggregation.

154, TITLE: Multi-Behavior Sequential Transformer Recommender
https://dl.acm.org/doi/abs/10.1145/3477495.3532023
AUTHORS: Enming Yuan, Wei Guo, Zhicheng He, Huifeng Guo, Chengkai Liu, Ruiming Tang
HIGHLIGHT: Despite the great successes, existing methods seem to have limitations on modelling heterogeneous item-level multi-behavior dependencies, capturing diverse multi-behavior sequential dynamics, or alleviating data sparsity problems. In this paper, we show it is possible to derive a framework to address all the above three limitations.

155, TITLE: Determinantal Point Process Likelihoods for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531965
AUTHORS: Yuli Liu, Christian Walder, Lexing Xie
HIGHLIGHT: We argue that such objective functions suffer from two inherent drawbacks: i) the dependencies among elements of a sequence are overlooked in these loss formulations; ii) instead of balancing accuracy (quality) and diversity, only generating accurate results has been over emphasized. We therefore propose two new loss functions based on the Determinantal Point Process (DPP) likelihood, that can be adaptively applied to estimate the subsequent item or items.

156, TITLE: Thinking inside The Box: Learning Hypercube Representations for Group Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532066
AUTHORS: Tong Chen, Hongzhi Yin, Jing Long, Quoc Viet Hung Nguyen, Yang Wang, Meng Wang
HIGHLIGHT: In this paper, we propose a novel representation of groups via the notion of hypercubes, which are subspaces containing innumerable points in the vector space.

157, TITLE: An Attribute-Driven Mirror Graph Network for Session-based Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531935
AUTHORS: Siqi Lai, Erli Meng, Fan Zhang, Chenliang Li, Bin Wang, Aixin Sun

HIGHLIGHT: This paper proposes a novel mirror graph enhanced neural model for session-based recommendation (MGS), to exploit item attribute information over item embeddings for more accurate preference estimation.

158, TITLE: Price DOES Matter!: Modeling Price and Interest Preferences in Session-based Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532043
AUTHORS: Xiaokun Zhang, Bo Xu, Liang Yang, Chenliang Li, Fenglong Ma, Haifeng Liu, Hongfei Lin
HIGHLIGHT: Firstly, it is hard to handle heterogeneous information from various features of items to capture users' price preferences. Secondly, it is difficult to model the complex relations between price and interest preferences in determining user choices. To address the above challenges, we propose a novel method Co-guided Heterogeneous Hypergraph Network (CoHHN) for session-based recommendation.

159, TITLE: AutoGSR: Neural Architecture Search for Graph-based Session Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531940
AUTHORS: Jingfan Chen, Guanghui Zhu, Haojun Hou, Chunfeng Yuan, Yihua Huang
HIGHLIGHT: Nevertheless, due to the highly diverse types of potential information in sessions, existing GNNs-based methods perform differently on different session datasets, leading to the need for efficient design of neural networks adapted to various session recommendation scenarios. To address this problem, we propose Automated neural architecture search for Graph-based Session Recommendation, namely AutoGSR, a framework that provides a practical and general solution to automatically find the optimal GNNs-based session recommendation model.

160, TITLE: Multi-Faceted Global Item Relation Learning for Session-Based Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532024
AUTHORS: Qilong Han, Chi Zhang, Rui Chen, Riwei Lai, Hongtao Song, Li Li
HIGHLIGHT: In view of the limitations of pioneering studies that explore collaborative information from other sessions, in this paper we propose a new direction to enhance session representations by learning multi-faceted session-independent global item relations.

161, TITLE: Towards Suicide Ideation Detection Through Online Conversational Context
https://dl.acm.org/doi/abs/10.1145/3477495.3532068
AUTHORS: Ramit Sawhney, Shivam Agarwal, Atula Tejaswi Neerkaje, Nikolaos Aletras, Preslav Nakov, Lucie Flek
HIGHLIGHT: Moreover, psychological studies suggested that it is important to capture the fine-grained temporal irregularities in the release of vast volumes of comments, since suicidal users react quickly to online community support. Building on these limitations and psychological studies, we propose HCN, a Hyperbolic Conversation Network, which is a less user-intrusive method for suicide ideation detection.

162, TITLE: Unsupervised Belief Representation Learning with Information-Theoretic Variational Graph Auto-Encoders
https://dl.acm.org/doi/abs/10.1145/3477495.3532072
AUTHORS: Jinning Li, Huajie Shao, Dachun Sun, Ruijie Wang, Yuchen Yan, Jinyang Li, Shengzhong Liu, Hanghang Tong, Tarek Abdelzaher
HIGHLIGHT: Inspired by total correlation in information theory, we propose the Information-Theoretic Variational Graph Auto-Encoder (InfoVGAE) that learns to project both users and content items (e.g., posts that represent user views) into an appropriate disentangled latent space.

163, TITLE: A Multitask Framework for Sentiment, Emotion and Sarcasm aware Cyberbullying Detection from Multi-modal Code-Mixed Memes
https://dl.acm.org/doi/abs/10.1145/3477495.3531925
AUTHORS: Krishanu Maity, Prince Jha, Sriparna Saha, Pushpak Bhattacharyya
HIGHLIGHT: The current work is the first attempt, to the best of our knowledge, in investigating the role of sentiment, emotion and sarcasm in identifying cyberbullying from multi-modal memes in a code-mixed language setting.

164, TITLE: Bias Mitigation for Toxicity Detection via Sequential Decisions
https://dl.acm.org/doi/abs/10.1145/3477495.3531945
AUTHORS: Lu Cheng, Ahmadreza Mosallanezhad, Yasin N. Silva, Deborah L. Hall, Huan Liu
HIGHLIGHT: In this work, we consider debiasing toxicity detection as a sequential decision-making process where different biases can be interdependent.

165, TITLE: A Weakly Supervised Propagation Model for Rumor Verification and Stance Detection with Multiple Instance Learning
https://dl.acm.org/doi/abs/10.1145/3477495.3531930
AUTHORS: Ruichao Yang, Jing Ma, Hongzhan Lin, Wei Gao
HIGHLIGHT: Enlightened by Multiple Instance Learning (MIL) scheme, we propose a novel weakly supervised joint learning framework for rumor verification and stance detection which only requires bag-level class labels concerning the rumor's veracity.

166, TITLE: On the Role of Relevance in Natural Language Processing Tasks
https://dl.acm.org/doi/abs/10.1145/3477495.3532034
AUTHORS: Artsiom Sauchuk, James Thorne, Alon Halevy, Nicola Tonellotto, Fabrizio Silvestri
HIGHLIGHT: This paper presents experimental results on two NLP tasks implemented as a two-stage cascading architecture.

167, TITLE: Learning to Enrich Query Representation with Pseudo-Relevance Feedback for Cross-lingual Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3532013

AUTHORS: Ramraj Chandradevan, Eugene Yang, Mahsa Yarmohammadi, Eugene Agichtein
HIGHLIGHT: Two of the challenges are incorporating feedback from long documents, and cross-language knowledge transfer. To address these challenges, we propose a novel neural CLIR architecture, NCLPRF, capable of incorporating PRF feedback from multiple potentially long documents, which enables improvements to query representation in the shared semantic space between query and document languages.

168, TITLE: CORE: Simple and Effective Session-based Recommendation within Consistent Representation Space
https://dl.acm.org/doi/abs/10.1145/3477495.3531955
AUTHORS: Yupeng Hou, Binbin Hu, Zhiqiang Zhang, Wayne Xin Zhao
HIGHLIGHT: However, session embedding learned by a non-linear encoder is usually not in the same representation space as item embeddings, resulting in the inconsistent prediction issue while recommending items. To address this issue, we propose a simple and effective framework named CORE, which can unify the representation space for both the encoding and decoding processes.

169, TITLE: Learning Disentangled Representations for Counterfactual Regression via Mutual Information Minimization
https://dl.acm.org/doi/abs/10.1145/3477495.3532011
AUTHORS: Mingyuan Cheng, Xinru Liao, Quan Liu, Bin Ma, Jian Xu, Bo Zheng
HIGHLIGHT: Specifically, previous methods fail to obtain independent disentangled factors, which is a necessary condition for identifying treatment effects. In this paper, we propose Disentangled Representations for Counterfactual Regression via Mutual Information Minimization (MIM-DRCFR), which uses a multi-task learning framework to share information when learning the latent factors and incorporates MI minimization learning criteria to ensure the independence of these factors.

170, TITLE: Multi-modal Graph Contrastive Learning for Micro-video Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532027
AUTHORS: Zixuan Yi, Xi Wang, Iadh Ounis, Craig Macdonald
HIGHLIGHT: However, we argue that these approaches are not sufficient to encode item representations with multiple modalities, since the used methods cannot fully disentangle the users' tastes on different modalities. To tackle this problem, we propose a novel learning method named Multi-Modal Graph Contrastive Learning (MMGCL), which aims to explicitly enhance multi-modal representation learning in a self-supervised learning manner.

171, TITLE: RESETBERT4Rec: A Pre-training Model Integrating Time And User Historical Behavior for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3532054
AUTHORS: Qihang Zhao
HIGHLIGHT: Specifically, we propose a new model called the RE arrange S equence prE -training and T ime embedding model via BERT for sequential R ecommendation (RESETBERT4Rec) \footnoteThis work was completed during JD internship., it further captures the information of the user's whole click history by adding a rearrange sequence prediction task to the original BERT pre-training framework, while it integrates different views of time information.

172, TITLE: Item-Provider Co-learning for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531756
AUTHORS: Lei Chen, Jingtao Ding, Min Yang, Chengming Li, Chonggang Song, Lingling Yi
HIGHLIGHT: Specifically, we propose two representation learning methods (single-steam and cross-stream) to learn comprehensive item and user representations based on the user's historical item sequence and provider sequence.

173, TITLE: Re-weighting Negative Samples for Model-Agnostic Matching
https://dl.acm.org/doi/abs/10.1145/3477495.3532053
AUTHORS: Jiazhen Lou, Hong Wen, Fuyu Lv, Jing Zhang, Tengfei Yuan, Zhao Li
HIGHLIGHT: In this paper, we find that the common practice that randomly sampling negative samples from the entire space and treating them equally is not an optimal choice, since the negative samples from different sub-spaces at different stages have different importance to a matching model. To address this issue, we propose a novel method named Unbiased Model-Agnostic Matching Approach (UMA2).

174, TITLE: Towards Event-level Causal Relation Identification
https://dl.acm.org/doi/abs/10.1145/3477495.3531758
AUTHORS: Chuang Fan, Daoxing Liu, Libo Qin, Yue Zhang, Ruifeng Xu
HIGHLIGHT: As a result, they either suffer from conflicts among causal relations predicted separately or require a set of additional constraints to resolve such conflicts. We propose to study this task in a more realistic setting, where event-level causality identification can be made.

175, TITLE: Exploring Heterogeneous Data Lake based on Unified Canonical Graphs
https://dl.acm.org/doi/abs/10.1145/3477495.3531759
AUTHORS: Qin Yuan, Ye Yuan, Zhenyu Wen, He Wang, Chen Chen, Guoren Wang
HIGHLIGHT: In this paper, we study a novel keyword search.

176, TITLE: Regulating Group Exposure for Item Providers in Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531760
AUTHORS: Mirko Marras, Ludovico Boratto, Guilherme Ramos, Gianni Fenu
HIGHLIGHT: In this paper, we consider providers as grouped based on a common characteristic in settings in which certain provider groups have low representation of items in the catalog and, thus, in the user interactions.

177, TITLE:	L3E-HD: A Framework Enabling Efficient Ensemble in High-Dimensional Space for Language Tasks
https://dl.acm.org/doi/abs/10.1145/3477495.3531761
AUTHORS:	Fangxin Liu, Haomin Li, Xiaokang Yang, Li Jiang
HIGHLIGHT:	In this paper, we proposed a novel ensemble framework for the language task, termed L3E-HD, which enables efficient HDC on low-power edge devices.

178, TITLE:	Neural Statistics for Click-Through Rate Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531762
AUTHORS:	Yanhua Huang, Hangyu Wang, Yiyun Miao, Ruiwen Xu, Lei Zhang, Weinan Zhang
HIGHLIGHT:	This paper introduces a novel embedding technique called neural statistics that instead learns explicit semantics of categorical features by incorporating feature engineering as an innate prior into the deep architecture in an end-to-end manner.

179, TITLE:	Adversarial Graph Perturbations for Recommendations at Scale
https://dl.acm.org/doi/abs/10.1145/3477495.3531763
AUTHORS:	Huiyuan Chen, Kaixiong Zhou, Kwei-Herng Lai, Xia Hu, Fei Wang, Hao Yang
HIGHLIGHT:	However, perturbing graph structures has been far less studied in recommendations. To bridge this gap, we propose AdvGraph to model adversarial graph perturbations during the training of GNNs.

180, TITLE:	Graph Capsule Network with a Dual Adaptive Mechanism
https://dl.acm.org/doi/abs/10.1145/3477495.3531764
AUTHORS:	Xiangping Zheng, Xun Liang, Bo Wu, Yuhui Guo, Xuan Zhang
HIGHLIGHT:	Furthermore, though many GCNs variants have been proposed and obtained state-of-the-art results, they face the situation that much early information may be lost during the graph convolution step. To this end, we innovatively present an Graph Capsule Network with a Dual Adaptive Mechanism (DA-GCN) to tackle the above challenges.

181, TITLE:	Constrained Sequence-to-Tree Generation for Hierarchical Text Classification
https://dl.acm.org/doi/abs/10.1145/3477495.3531765
AUTHORS:	Chao Yu, Yi Shen, Yue Mao
HIGHLIGHT:	In this paper, we formulate HTC as a sequence generation task and introduce a sequence-to-tree framework (Seq2Tree) for modeling the hierarchical label structure.

182, TITLE:	Relevance under the Iceberg: Reasonable Prediction for Extreme Multi-label Classification
https://dl.acm.org/doi/abs/10.1145/3477495.3531767
AUTHORS:	Jyun-Yu Jiang, Wei-Cheng Chang, Jiong Zhang, Cho-Jui Hsieh, Hsiang-Fu Yu
HIGHLIGHT:	In this paper, we aim to provide reasonable prediction for extreme multi-label classification with dynamic numbers of predicted labels.

183, TITLE:	Training Entire-Space Models for Target-oriented Opinion Words Extraction
https://dl.acm.org/doi/abs/10.1145/3477495.3531768
AUTHORS:	Yuncong Li, Fang Wang, Sheng-Hua Zhong
HIGHLIGHT:	Training Entire-Space Models for Target-oriented Opinion Words Extraction

184, TITLE:	Zero-shot Query Contextualization for Conversational Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531769
AUTHORS:	Antonios Minas Krasakis, Andrew Yates, Evangelos Kanoulas
HIGHLIGHT:	While the proposed methods have proven effective, they still assume the availability of large-scale question resolution and conversational search datasets. To waive the dependency on the availability of such data, we adapt a pre-trained token-level dense retriever on ad-hoc search data to perform conversational search with no additional fine-tuning.

185, TITLE:	EFLEC: Efficient Feature-LEakage Correction in GNN based Recommendation Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531770
AUTHORS:	Ishaan Kumar, Yaochen Hu, Yingxue Zhang
HIGHLIGHT:	We propose the accurate removal algorithm to generate the final embedding.

186, TITLE:	Gating-adapted Wavelet Multiresolution Analysis for Exposure Sequence Modeling in CTR Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531771
AUTHORS:	Xiaoxiao Xu, Zhiwei Fang, Qian Yu, Ruoran Huang, Chaosheng Fan, Yong Li, Yang He, Changping Peng, Zhangang Lin, Jingping Shao, Non Non
HIGHLIGHT:	In this paper, we propose to address the high latency and noise problems via Gating-adapted wavelet multiresolution analysis (Gama), which can effectively denoise the extremely long exposure sequence and adaptively capture the implied multi-dimension user interest with linear computational complexity.

187, TITLE:	Enhancing Top-N Item Recommendations by Peer Collaboration
https://dl.acm.org/doi/abs/10.1145/3477495.3531773
AUTHORS:	Yang Sun, Fajie Yuan, Min Yang, Alexandros Karatzoglou, Li Shen, Xiaoyan Zhao
HIGHLIGHT:	However, this inevitably brings redundant neurons, a phenomenon referred to as over-parameterization. In this paper, we plan to exploit such redundancy phenomena for recommender systems (RS), and propose a top-N item recommendation framework called PCRec that leverages collaborative training of two recommender models of the same network structure, termed peer collaboration.

188, TITLE: Faster Learned Sparse Retrieval with Guided Traversal
https://dl.acm.org/doi/abs/10.1145/3477495.3531774
AUTHORS: Antonio Mallia, Joel Mackenzie, Torsten Suel, Nicola Tonellotto
HIGHLIGHT: In this work, we propose a novel indexing and query processing technique that exploits a traditional sparse model's "guidance" to efficiently traverse the index, allowing the more effective learned model to execute fewer scoring operations.

189, TITLE: Animating Images to Transfer CLIP for Video-Text Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531776
AUTHORS: Yu Liu, Huai Chen, Lianghua Huang, Di Chen, Bin Wang, Pan Pan, Lisheng Wang
HIGHLIGHT: In this paper, we propose a novel image animation strategy to transfer the image-text CLIP model to video-text retrieval effectively.

190, TITLE: IPR: Interaction-level Preference Ranking for Explicit feedback
https://dl.acm.org/doi/abs/10.1145/3477495.3531777
AUTHORS: Shih-Yang Liu, Hsien Hao Chen, Chih-Ming Chen, Ming-Feng Tsai, Chuan-Ju Wang
HIGHLIGHT: In this paper, we propose interaction-level preference ranking(IPR), a novel pairwise ranking embedding learning approach to better utilize explicit feedback for recommendation.

191, TITLE: News Recommendation with Candidate-aware User Modeling
https://dl.acm.org/doi/abs/10.1145/3477495.3531778
AUTHORS: Tao Qi, Fangzhao Wu, Chuhan Wu, Yongfeng Huang
HIGHLIGHT: In this paper, we present a candidate-aware user modeling method for personalized news recommendation, which can incorporate candidate news into user modeling for better matching between candidate news and user interest.

192, TITLE: PERD: Personalized Emoji Recommendation with Dynamic User Preference
https://dl.acm.org/doi/abs/10.1145/3477495.3531779
AUTHORS: Xuanzhi Zheng, Guoshuai Zhao, Li Zhu, Xueming Qian
HIGHLIGHT: In this paper, we propose a personalized emoji recommendation with dynamic user preference (PERD) which contains a text encoder and a personalized attention mechanism.

193, TITLE: Socially-aware Dual Contrastive Learning for Cold-Start Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531780
AUTHORS: Jing Du, Zesheng Ye, Lina Yao, Bin Guo, Zhiwen Yu
HIGHLIGHT: In this work, we propose socially-aware dual contrastive learning for cold-start recommendation, where cold users can be modeled in the same way as warm users.

194, TITLE: Hierarchical Task-aware Multi-Head Attention Network
https://dl.acm.org/doi/abs/10.1145/3477495.3531781
AUTHORS: Jing Du, Lina Yao, Xianzhi Wang, Bin Guo, Zhiwen Yu
HIGHLIGHT: While related research continues to break new ground, two major limitations still remain, including (i) poor generalization to scenarios where tasks are loosely correlated; and (ii) under-investigation on global commonality and local characteristics of tasks. Our aim is to bridge these gaps by presenting a neural multi-task learning model coined Hierarchical Task-aware Multi-headed Attention Network (HTMN).

195, TITLE: Image-Text Retrieval via Contrastive Learning with Auxiliary Generative Features and Support-set Regularization
https://dl.acm.org/doi/abs/10.1145/3477495.3531783
AUTHORS: Lei Zhang, Min Yang, Chengming Li, Ruifeng Xu
HIGHLIGHT: In this paper, we bridge the heterogeneity gap between different modalities and improve image-text retrieval by taking advantage of auxiliary image-to-text and text-to-image generative features with contrastive learning.

196, TITLE: Enhancing Event-Level Sentiment Analysis with Structured Arguments
https://dl.acm.org/doi/abs/10.1145/3477495.3531784
AUTHORS: Qi Zhang, Jie Zhou, Qin Chen, Qingchun Bai, Liang He
HIGHLIGHT: Previous studies about event-level sentiment analysis (SA) usually model the event as a topic, a category or target terms, while the structured arguments (e.g., subject, object, time and location) that have potential effects on the sentiment are not well studied. In this paper, we redefine the task as structured event-level SA and propose an End-to-End Event-level Sentiment Analysis (E3SA) approach to solve this issue.

197, TITLE: Denoising Time Cycle Modeling for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531785
AUTHORS: Sicong Xie, Qunwei Li, Weidi Xu, Kaiming Shen, Shaohu Chen, Wenliang Zhong
HIGHLIGHT: In this paper, we propose Denoising Time Cycle Modeling (DiCycle), a novel approach to denoise user behaviors and select the subset of user behaviors that are highly related to the target item.

198, TITLE: P3 Ranker: Mitigating the Gaps between Pre-training and Ranking Fine-tuning with Prompt-based Learning and Pre-finetuning
https://dl.acm.org/doi/abs/10.1145/3477495.3531786
AUTHORS: Xiaomeng Hu, Shi Yu, Chenyan Xiong, Zhenghao Liu, Zhiyuan Liu, Ge Yu

HIGHLIGHT: In this paper, we identify and study the two mismatches between pre-training and ranking fine-tuning: the training schema gap regarding the differences in training objectives and model architectures, and the task knowledge gap considering the discrepancy between the knowledge needed in ranking and that learned during pre-training.

199, TITLE: Towards Results-level Proportionality for Multi-objective Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531787
AUTHORS: Ladislav Peska, Patrik Dokoupil
HIGHLIGHT: If individual objectives are transformed to represent quality on the same scale, these result conditioning expressions may greatly contribute towards recommendations tuneability and explainability as well as user's control over recommendations. To achieve this task, we propose an iterative algorithm inspired by the mandates allocation problem in public elections.

200, TITLE: Adversarial Filtering Modeling on Long-term User Behavior Sequences for Click-Through Rate Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531788
AUTHORS: Xiaochen Li, Jian Liang, Xialong Liu, Yu Zhang
HIGHLIGHT: To obtain better cost/performance trade-off, we propose a novel Adversarial Filtering Model (ADFM) to model long-term user behavior.

201, TITLE: FUM: Fine-grained and Fast User Modeling for News Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531790
AUTHORS: Tao Qi, Fangzhao Wu, Chuhan Wu, Yongfeng Huang
HIGHLIGHT: In this paper, we propose a fine-grained and fast user modeling framework (FUM) to model user interest from fine-grained behavior interactions for news recommendation.

202, TITLE: Curriculum Learning for Dense Retrieval Distillation
https://dl.acm.org/doi/abs/10.1145/3477495.3531791
AUTHORS: Hansi Zeng, Hamed Zamani, Vishwa Vinay
HIGHLIGHT: In this paper, we propose a generic curriculum learning based optimization framework called CL-DRD that controls the difficulty level of training data produced by the re-ranking (teacher) model.

203, TITLE: Evaluation of Herd Behavior Caused by Population-scale Concept Drift in Collaborative Filtering
https://dl.acm.org/doi/abs/10.1145/3477495.3531792
AUTHORS: Chenglong Ma, Yongli Ren, Pablo Castells, Mark Sanderson
HIGHLIGHT: We conduct a study on user behavior to detect the collaborative concept drifts among users.

204, TITLE: Detecting Frozen Phrases in Open-Domain Question Answering
https://dl.acm.org/doi/abs/10.1145/3477495.3531793
AUTHORS: Mostafa Yadegari, Ehsan Kamalloo, Davood Rafiei
HIGHLIGHT: In this paper, we study one particular structure, referred to as frozen phrases, that is highly expected to transfer as a whole from questions to answer passages.

205, TITLE: Enhancing Hypergraph Neural Networks with Intent Disentanglement for Session-based Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531794
AUTHORS: Yinfeng Li, Chen Gao, Hengliang Luo, Depeng Jin, Yong Li
HIGHLIGHT: To address them, in this paper, we propose a hypergraph-based solution, HIDE.

206, TITLE: Point Prompt Tuning for Temporally Language Grounding
https://dl.acm.org/doi/abs/10.1145/3477495.3531795
AUTHORS: Yawen Zeng
HIGHLIGHT: Therefore, how to perform TLG task efficiently and stably is a non-trivial work. Toward this end, we innovatively contribute a solution, Point Prompt Tuning (PPT), which formulates this task as a prompt-based multi-modal problem and integrates multiple sub-tasks to tuning performance.

207, TITLE: Value Penalized Q-Learning for Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531796
AUTHORS: Chengqian Gao, Ke Xu, Kuangqi Zhou, Lanqing Li, Xueqian Wang, Bo Yuan, Peilin Zhao
HIGHLIGHT: In this paper, we propose Value Penalized Q-learning (VPQ), a novel uncertainty-based offline RL algorithm that penalizes the unstable Q-values in the regression target using uncertainty-aware weights, achieving the conservative Q-function without the need of estimating the behavior policy, suitable for RS with a large number of items.

208, TITLE: Transform Cold-Start Users into Warm via Fused Behaviors in Large-Scale Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531797
AUTHORS: Pengyang Li, Rong Chen, Quan Liu, Jian Xu, Bo Zheng
HIGHLIGHT: (1) Cold-start users may have a quite different distribution of features from existing users. (2) The few behaviors of cold-start users are hard to be exploited. In this paper, we propose a recommender system called Cold-Transformer to alleviate these problems.

209, TITLE: Understanding User Satisfaction with Task-oriented Dialogue Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531798
AUTHORS: Clemencia Siro, Mohammad Aliannejadi, Maarten de Rijke

HIGHLIGHT: We introduce a comprehensive set of user experience aspects derived from the annotators' open comments that can influence users' overall impression.

210, TITLE: Distilling Knowledge on Text Graph for Social Media Attribute Inference
https://dl.acm.org/doi/abs/10.1145/3477495.3531968
AUTHORS: Quan Li, Xiaoting Li, Lingwei Chen, Dinghao Wu
HIGHLIGHT: However, these text graphs are constructed on words, suffering from high memory consumption and ineffectiveness on few labeled texts. To address this challenge, we design a text-graph-based few-shot learning model for social media attribute inferences.

211, TITLE: Progressive Self-Attention Network with Unsymmetrical Positional Encoding for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531800
AUTHORS: Yuehua Zhu, Bo Huang, Shaohua Jiang, Muli Yang, Yanhua Yang, Wenliang Zhong
HIGHLIGHT: In this paper, we propose a novel interpretable convolutional self-attention, which efficiently captures both short- and long-term patterns with a progressive attention distribution.

212, TITLE: Empowering Next POI Recommendation with Multi-Relational Modeling
https://dl.acm.org/doi/abs/10.1145/3477495.3531801
AUTHORS: Zheng Huang, Jing Ma, Yushun Dong, Natasha Zhang Foutz, Jundong Li
HIGHLIGHT: However, most existing methods either focus on merely the user-POI visits, or handle different relations based on over-simplified assumptions while neglecting relational heterogeneities. To fill these critical voids, we propose a novel framework, MEMO, which effectively utilizes the heterogeneous relations with a multi-network representation learning module, and explicitly incorporates the inter-temporal user-POI mutual influence with the coupled recurrent neural networks.

213, TITLE: What Makes a Good Podcast Summary?
https://dl.acm.org/doi/abs/10.1145/3477495.3531802
AUTHORS: Rezvaneh Rezapour, Sravana Reddy, Rosie Jones, Ian Soboroff
HIGHLIGHT: Using a collection of podcast summaries produced by different algorithms alongside human judgments of summary quality obtained from the TREC 2020 Podcasts Track, we study the correlations between various automatic evaluation metrics and human judgments, as well as the linguistic aspects of summaries that result in strong evaluations.

214, TITLE: A Simple Meta-learning Paradigm for Zero-shot Intent Classification with Mixture Attention Mechanism
https://dl.acm.org/doi/abs/10.1145/3477495.3531803
AUTHORS: Han Liu, Siyang Zhao, Xiaotong Zhang, Feng Zhang, Junjie Sun, Hong Yu, Xianchao Zhang
HIGHLIGHT: In this paper, we propose a simple yet effective meta-learning paradigm for zero-shot intent classification.

215, TITLE: BSAL: A Framework of Bi-component Structure and Attribute Learning for Link Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531804
AUTHORS: Bisheng Li, Min Zhou, Shengzhong Zhang, Menglin Yang, Defu Lian, Zengfeng Huang
HIGHLIGHT: To bridge the gap, we propose a bicomponent structural and attribute learning framework (BSAL) that is designed to adaptively leverage information from topology and feature spaces.

216, TITLE: Analyzing the Support Level for Tips Extracted from Product Reviews
https://dl.acm.org/doi/abs/10.1145/3477495.3531805
AUTHORS: Miriam Farber, David Carmel, Lital Kuchy, Avihai Mejer
HIGHLIGHT: In this work we argue that extracted tips should be examined based on the amount of support and opposition they receive from all product reviews.

217, TITLE: Why do Semantically Unrelated Categories Appear in the Same Session?: A Demand-aware Method
https://dl.acm.org/doi/abs/10.1145/3477495.3531806
AUTHORS: Liqi Yang, Linhao Luo, Xiaofeng Zhang, Fengxin Li, Xinni Zhang, Zelin Jiang, Shuai Tang
HIGHLIGHT: To tackle the aforementioned issue, this paper proposes a novel demand-aware graph neural network model.

218, TITLE: Enhancing Zero-Shot Stance Detection via Targeted Background Knowledge
https://dl.acm.org/doi/abs/10.1145/3477495.3531807
AUTHORS: Qinglin Zhu, Bin Liang, Jingyi Sun, Jiachen Du, Lanjun Zhou, Ruifeng Xu
HIGHLIGHT: For human beings, we generally tend to reason the stance of a new target by linking it with the related knowledge learned from the known ones. Therefore, in this paper, to better generalize the target-related stance features learned from the known targets to the unseen ones, we incorporate the targeted background knowledge from Wikipedia into the model.

219, TITLE: Translation-Based Implicit Annotation Projection for Zero-Shot Cross-Lingual Event Argument Extraction
https://dl.acm.org/doi/abs/10.1145/3477495.3531808
AUTHORS: Chenwei Lou, Jun Gao, Changlong Yu, Wei Wang, Huan Zhao, Weiwei Tu, Ruifeng Xu
HIGHLIGHT: This paper investigates a translation-based method to implicitly project annotations from the source language to the target language.

220, TITLE: Coarse-to-Fine Sparse Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531732
AUTHORS: Jiacheng Li, Tong Zhao, Jin Li, Jim Chan, Christos Faloutsos, George Karypis, Soo-Min Pantel, Julian McAuley

HIGHLIGHT: We propose to model user dynamics from shopping intents and interacted items simultaneously.

221, TITLE: UserBERT: Pre-training User Model with Contrastive Self-supervision
https://dl.acm.org/doi/abs/10.1145/3477495.3531810
AUTHORS: Chuhan Wu, Fangzhao Wu, Tao Qi, Yongfeng Huang
HIGHLIGHT: In this paper, we propose a user model pre-training method named UserBERT to learn universal user models on unlabeled user behavior data with two contrastive self-supervision tasks.

222, TITLE: Understanding Long Programming Languages with Structure-Aware Sparse Attention
https://dl.acm.org/doi/abs/10.1145/3477495.3531811
AUTHORS: Tingting Liu, Chengyu Wang, Cen Chen, Ming Gao, Aoying Zhou
HIGHLIGHT: However, codes in real-world applications are generally long, such as code searches, which cannot be processed efficiently by existing PPLMs. To solve this problem, in this paper, we present SASA, a Structure-Aware Sparse Attention mechanism, which reduces the complexity and improves performance for long code understanding tasks.

223, TITLE: Learning Trustworthy Web Sources to Derive Correct Answers and Reduce Health Misinformation in Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531812
AUTHORS: Dake Zhang, Amir Vakili Tahami, Mustafa Abualsaud, Mark D. Smucker
HIGHLIGHT: By using an existing set of health questions and their known answers, we show it is possible to learn which web hosts are trustworthy, from which we can predict the correct answers to the 2021 health questions with an accuracy of 76%.

224, TITLE: MP2: A Momentum Contrast Approach for Recommendation with Pointwise and Pairwise Learning
https://dl.acm.org/doi/abs/10.1145/3477495.3531813
AUTHORS: Menghan Wang, Yuchen Guo, Zhenqi Zhao, Guangzheng Hu, Yuming Shen, Mingming Gong, Philip Torr
HIGHLIGHT: To solve this issue, we find the soft-labeling property of pairwise labels could be utilized to alleviate the bias of pointwise labels. To this end, we propose a momentum contrast framework (\method) that combines pointwise and pairwise learning for recommendation.

225, TITLE: MetaCVR: Conversion Rate Prediction via Meta Learning in Small-Scale Recommendation Scenarios
https://dl.acm.org/doi/abs/10.1145/3477495.3531733
AUTHORS: Xiaofeng Pan, Ming Li, Jing Zhang, Keren Yu, Hong Wen, Luping Wang, Chengjun Mao, Bo Cao
HIGHLIGHT: In this work, we propose a novel CVR method named MetaCVR from a perspective of meta learning to address the DDF issue.

226, TITLE: A Multi-Task Based Neural Model to Simulate Users in Goal Oriented Dialogue Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531814
AUTHORS: To Eun Kim, Aldo Lipani
HIGHLIGHT: In this paper, we propose a deep learning-based user simulator that predicts users' satisfaction scores and actions while also jointly generating users' utterances in a multi-task manner.

227, TITLE: Generalizing to the Future: Mitigating Entity Bias in Fake News Detection
https://dl.acm.org/doi/abs/10.1145/3477495.3531816
AUTHORS: Yongchun Zhu, Qiang Sheng, Juan Cao, Shuokai Li, Danding Wang, Fuzhen Zhuang
HIGHLIGHT: In this paper, we propose an entity debiasing framework (ENDEF) which generalizes fake news detection models to the future data by mitigating entity bias from a cause-effect perspective.

228, TITLE: Dialogue Topic Segmentation via Parallel Extraction Network with Neighbor Smoothing
https://dl.acm.org/doi/abs/10.1145/3477495.3531817
AUTHORS: Jinxiong Xia, Cao Liu, Jiansong Chen, Yuchen Li, Fan Yang, Xunliang Cai, Guanglu Wan, Houfeng Wang
HIGHLIGHT: Besides, the ambiguity and labeling noise in dialogue segment bounds bring further challenges to existing models. In this work, we propose the Parallel Extraction Network with Neighbor Smoothing (PEN-NS) to address the above issues.

229, TITLE: Analysing the Robustness of Dual Encoders for Dense Retrieval Against Misspellings
https://dl.acm.org/doi/abs/10.1145/3477495.3531818
AUTHORS: Georgios Sidiropoulos, Evangelos Kanoulas
HIGHLIGHT: In this work, we study the robustness of dense retrievers against typos in the user question.

230, TITLE: From Cluster Ranking to Document Ranking
https://dl.acm.org/doi/abs/10.1145/3477495.3531819
AUTHORS: Egor Markovskiy, Fiana Raiber, Shoham Sabach, Oren Kurland
HIGHLIGHT: We present a novel supervised approach to transform cluster ranking to document ranking.

231, TITLE: Unlearning Protected User Attributes in Recommendations with Adversarial Training
https://dl.acm.org/doi/abs/10.1145/3477495.3531820
AUTHORS: Christian Ganhör, David Penz, Navid Rekabsaz, Oleg Lesota, Markus Schedl
HIGHLIGHT: In this work, we investigate the possibility and challenges of removing specific protected information of users from the learned interaction representations of a RS algorithm, while maintaining its effectiveness.

232, TITLE: A 'Pointwise-Query, Listwise-Document' based Query Performance Prediction Approach
https://dl.acm.org/doi/abs/10.1145/3477495.3531821

AUTHORS: Suchana Datta, Sean MacAvaney, Debasis Ganguly, Derek Greene
HIGHLIGHT: In this paper, we propose a novel end-to-end neural cross-encoder-based approach that is trained pointwise on individual queries, but listwise over the top ranked documents (split into chunks).

233, TITLE: How Does Feedback Signal Quality Impact Effectiveness of Pseudo Relevance Feedback for Passage Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531822
AUTHORS: Hang Li, Ahmed Mourad, Bevan Koopman, Guido Zuccon
HIGHLIGHT: In this paper we control the quality of the feedback signal and measure its impact on a range of PRF methods, including traditional bag-of-words methods (Rocchio), and dense vector-based methods (learnt and not learnt).

234, TITLE: Improving Contrastive Learning of Sentence Embeddings with Case-Augmented Positives and Retrieved Negatives
https://dl.acm.org/doi/abs/10.1145/3477495.3531823
AUTHORS: Wei Wang, Liangzhu Ge, Jingqiao Zhang, Cheng Yang
HIGHLIGHT: Specifically, for positive samples, we propose switch-case augmentation to flip the case of the first letter of randomly selected words in a sentence.

235, TITLE: Expression Syntax Information Bottleneck for Math Word Problems
https://dl.acm.org/doi/abs/10.1145/3477495.3531824
AUTHORS: Jing Xiong, Chengming Li, Min Yang, Xiping Hu, Bin Hu
HIGHLIGHT: In this paper, we turn our attention in the opposite direction, and work on how to discard redundant features containing spurious correlations for MWP.

236, TITLE: Masking and Generation: An Unsupervised Method for Sarcasm Detection
https://dl.acm.org/doi/abs/10.1145/3477495.3531825
AUTHORS: Rui Wang, Qianlong Wang, Bin Liang, Yi Chen, Zhiyuan Wen, Bing Qin, Ruifeng Xu
HIGHLIGHT: In the real world scenario, however, the abundant labeled data or extra information requires high labor cost, not to mention that sufficient annotated data is unavailable in many low-resource conditions. To alleviate this dilemma, we investigate sarcasm detection from an unsupervised perspective, in which we explore a masking and generation paradigm in the context to extract the context incongruities for learning sarcastic expression.

237, TITLE: Cross-Probe BERT for Fast Cross-Modal Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531826
AUTHORS: Tan Yu, Hongliang Fei, Ping Li
HIGHLIGHT: To address the inefficiency issue in exiting text-vision BERT models, in this work, we develop a novel architecture, cross-probe BERT.

238, TITLE: GERE: Generative Evidence Retrieval for Fact Verification
https://dl.acm.org/doi/abs/10.1145/3477495.3531827
AUTHORS: Jiangui Chen, Ruqing Zhang, Jiafeng Guo, Yixing Fan, Xueqi Cheng
HIGHLIGHT: In this work, we proposeGERE, the first system that retrieves evidences in a generative fashion, i.e., generating the document titles as well as evidence sentence identifiers.

239, TITLE: DH-HGCN: Dual Homogeneity Hypergraph Convolutional Network for Multiple Social Recommendations
https://dl.acm.org/doi/abs/10.1145/3477495.3531828
AUTHORS: Jiadi Han, Qian Tao, Yufei Tang, Yuhan Xia
HIGHLIGHT: Specifically, we use sentiment analysis to extract comment relation and use the k-means clustering to construct item-item correlations, and we then optimize those heterogeneous graphs in a unified framework.

240, TITLE: Clustering based Behavior Sampling with Long Sequential Data for CTR Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531829
AUTHORS: Yuren Zhang, Enhong Chen, Binbin Jin, Hao Wang, Min Hou, Wei Huang, Runlong Yu
HIGHLIGHT: First, there is a lot of noise in such long histories, which can seriously hurt the prediction performance. Second, feeding the long behavior sequence directly results in infeasible inference time and storage cost. In order to tackle these challenges, in this paper we propose a novel framework, which we name as User Behavior Clustering Sampling (UBCS).

241, TITLE: Conversational Recommendation via Hierarchical Information Modeling
https://dl.acm.org/doi/abs/10.1145/3477495.3531830
AUTHORS: Quan Tu, Shen Gao, Yanran Li, Jianwei Cui, Bin Wang, Rui Yan
HIGHLIGHT: In this paper, we propose Hierarchical Information-aware Conversational Recommender (HICR) to model the two types of hierarchical information to boost the performance of CRS.

242, TITLE: Relation-Guided Few-Shot Relational Triple Extraction
https://dl.acm.org/doi/abs/10.1145/3477495.3531831
AUTHORS: Xin Cong, Jiawei Sheng, Shiyao Cui, Bowen Yu, Tingwen Liu, Bin Wang
HIGHLIGHT: To address it, we propose a novel task decomposition strategy, Relation-then-Entity, for FS-RTE.

243, TITLE: On Survivorship Bias in MS MARCO
https://dl.acm.org/doi/abs/10.1145/3477495.3531832
AUTHORS: Prashansa Gupta, Sean MacAvaney

HIGHLIGHT: We observe that this bias could be present in the popular MS MARCO dataset, given that annotators could not find answers to 38--45% of the queries, leading to these queries being discarded in training and evaluation processes.

244, TITLE: An Efficiency Study for SPLADE Models
https://dl.acm.org/doi/abs/10.1145/3477495.3531833
AUTHORS: Carlos Lassance, Stéphane Clinchant
HIGHLIGHT: In this paper, we focus on improving the efficiency of the SPLADE model since it has achieved state-of-the-art zero-shot performance and competitive results on TREC collections.

245, TITLE: Tensor-based Graph Modularity for Text Data Clustering
https://dl.acm.org/doi/abs/10.1145/3477495.3531834
AUTHORS: Rafika Boutalbi, Mira Ait-Saada, Anastasiia Iurshina, Steffen Staab, Mohamed Nadif
HIGHLIGHT: To this end, we rely on the modularity metric, which effectively evaluates graph clustering in such circumstances. Therefore, we present a novel approach for text clustering based on both a sparse tensor representation and graph modularity.

246, TITLE: Learned Token Pruning in Contextualized Late Interaction over BERT (ColBERT)
https://dl.acm.org/doi/abs/10.1145/3477495.3531835
AUTHORS: Carlos Lassance, Maroua Maachou, Joohee Park, Stéphane Clinchant
HIGHLIGHT: However, the late-interaction mechanism leads to large index size, as one needs to save a representation for each token of every document. In this work, we focus on token pruning techniques in order to mitigate this problem.

247, TITLE: AHP: Learning to Negative Sample for Hyperedge Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531836
AUTHORS: Hyunjin Hwang, Seungwoo Lee, Chanyoung Park, Kijung Shin
HIGHLIGHT: In this paper, we propose AHP, an adversarial training-based hyperedge-prediction method.

248, TITLE: GraFN: Semi-Supervised Node Classification on Graph with Few Labels via Non-Parametric Distribution Assignment
https://dl.acm.org/doi/abs/10.1145/3477495.3531838
AUTHORS: Junseok Lee, Yunhak Oh, Yeonjun In, Namkyeong Lee, Dongmin Hyun, Chanyoung Park
HIGHLIGHT: To this end, we propose a novel semi-supervised method for graphs, GraFN, that leverages few labeled nodes to ensure nodes that belong to the same class to be grouped together, thereby achieving the best of both worlds of semi-supervised and self-supervised methods.

249, TITLE: Item Similarity Mining for Multi-Market Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531839
AUTHORS: Jiangxia Cao, Xin Cong, Tingwen Liu, Bin Wang
HIGHLIGHT: In this paper, we explore multi-market recommendation (MMR), and propose a novel model called M^{3}Rec to improve all markets recommendation simultaneously.

250, TITLE: ILMART: Interpretable Ranking with Constrained LambdaMART
https://dl.acm.org/doi/abs/10.1145/3477495.3531840
AUTHORS: Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Raffaele Perego, Alberto Veneri
HIGHLIGHT: While most of the previous research efforts focus on creating post-hoc explanations, in this paper we investigate how to train effective and intrinsically-interpretable ranking models.

251, TITLE: Modern Baselines for SPARQL Semantic Parsing
https://dl.acm.org/doi/abs/10.1145/3477495.3531841
AUTHORS: Debayan Banerjee, Pranav Ajit Nair, Jivat Neet Kaur, Ricardo Usbeck, Chris Biemann
HIGHLIGHT: In this work, we focus on the task of generating SPARQL queries from natural language questions, which can then be executed on Knowledge Graphs (KGs).

252, TITLE: Learning-to-Rank at the Speed of Sampling: Plackett-Luce Gradient Estimation with Minimal Computational Complexity
https://dl.acm.org/doi/abs/10.1145/3477495.3531842
AUTHORS: Harrie Oosterhuis
HIGHLIGHT: In this paper, we introduce the novel PL-Rank-3 algorithm that performs unbiased gradient estimation with a computational complexity comparable to the best sorting algorithms.

253, TITLE: CTnoCVR: A Novelty Auxiliary Task Making the Lower-CTR-Higher-CVR Upper
https://dl.acm.org/doi/abs/10.1145/3477495.3531843
AUTHORS: Dandan Zhang, Haotian Wu, Guanqi Zeng, Yao Yang, Weijiang Qiu, Yujie Chen, Haoyuan Hu
HIGHLIGHT: In this paper, we introduce a novelty auxiliary task called CTnoCVR, which aims to predict the probability of events with click but no-conversion, in various state-of-the-art multi-task models of recommender systems to promote samples with high CVR but low CTR.

254, TITLE: Deep Multi-Representational Item Network for CTR Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531845
AUTHORS: Jihai Zhang, Fangquan Lin, Cheng Yang, Wei Wang

HIGHLIGHT: Furthermore, most existing works regard the candidate item as one fixed embedding and ignore the multi-representational characteristics of the item. To handle the above issues, we propose a Deep multi-Representational Item NetworK (DRINK) for CTR prediction.

255, TITLE: A New Sequential Prediction Framework with Spatial-temporal Embedding
https://dl.acm.org/doi/abs/10.1145/3477495.3531846
AUTHORS: Jihai Zhang, Fangquan Lin, Cheng Yang, Wei Jiang
HIGHLIGHT: In addition, we find that user behavior varies greatly at different time, and most existing models fail to characterize the rich temporal information. To address the above problems, we propose a transformer-based spatial-temporal recommendation framework (STEM).

256, TITLE: Rethinking Correlation-based Item-Item Similarities for Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3532055
AUTHORS: Katsuhiko Hayashi
HIGHLIGHT: The purpose of this paper is to re-investigate the effectiveness of correlation-based nearest neighbor methods on several benchmark datasets that have been used for recommendation evaluation in recent years.

257, TITLE: Deep Page-Level Interest Network in Reinforcement Learning for Ads Allocation
https://dl.acm.org/doi/abs/10.1145/3477495.3531847
AUTHORS: Guogang Liao, Xiaowen Shi, Ze Wang, Xiaoxu Wu, Chuheng Zhang, Yongkang Wang, Xingxing Wang, Dong Wang
HIGHLIGHT: Most previous works only model point-level positive feedback (i.e., click), which neglect the page-level information of feedback and other types of feedback. To this end, we propose Deep Page-level Interest Network (DPIN) to model the page-level user preference and exploit multiple types of feedback.

258, TITLE: GraphAD: A Graph Neural Network for Entity-Wise Multivariate Time-Series Anomaly Detection
https://dl.acm.org/doi/abs/10.1145/3477495.3531848
AUTHORS: Xu Chen, Qiu Qiu, Changshan Li, Kunqing Xie
HIGHLIGHT: In this paper, we pose an entity-wise multivariate time-series anomaly detection problem that considers the time-series of each unique entity.

259, TITLE: On Optimizing Top-K Metrics for Neural Ranking Models
https://dl.acm.org/doi/abs/10.1145/3477495.3531849
AUTHORS: Rolf Jagerman, Zhen Qin, Xuanhui Wang, Michael Bendersky, Marc Najork
HIGHLIGHT: In this paper, we follow the LambdaLoss framework and design novel and theoretically sound losses for NDCG@K metrics, while the original LambdaLoss paper can only do so using an unsound heuristic.

260, TITLE: Bias Mitigation for Evidence-aware Fake News Detection by Causal Intervention
https://dl.acm.org/doi/abs/10.1145/3477495.3531850
AUTHORS: Junfei Wu, Qiang Liu, Weizhi Xu, Shu Wu
HIGHLIGHT: Inspired by the success of causal inference, we propose a novel framework for debiasing evidence-based fake news detection\footnoteCode available at https://github.com/CRIPAC-DIG/CF-FEND by causal intervention.

261, TITLE: DisenCTR: Dynamic Graph-based Disentangled Representation for Click-Through Rate Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531851
AUTHORS: Yifan Wang, Yifang Qin, Fang Sun, Bo Zhang, Xuyang Hou, Ke Hu, Jia Cheng, Jun Lei, Ming Zhang
HIGHLIGHT: In this paper, we propose DisenCTR, a novel dynamic graph-based disentangled representation framework for CTR prediction.

262, TITLE: Improving Conversational Recommender Systems via Transformer-based Sequential Modelling
https://dl.acm.org/doi/abs/10.1145/3477495.3531852
AUTHORS: Jie Zou, Evangelos Kanoulas, Pengjie Ren, Zhaochun Ren, Aixin Sun, Cheng Long
HIGHLIGHT: In this paper, we propose a Transformer-based sequential conversational recommendation method, named TSCR, which models the sequential dependencies in the conversations to improve CRS.

263, TITLE: Neural Query Synthesis and Domain-Specific Ranking Templates for Multi-Stage Clinical Trial Matching
https://dl.acm.org/doi/abs/10.1145/3477495.3531853
AUTHORS: Ronak Pradeep, Yilin Li, Yuetong Wang, Jimmy Lin
HIGHLIGHT: In this work, we propose an effective multi-stage neural ranking system for the clinical trial matching problem.

264, TITLE: On Extractive Summarization for Profile-centric Neural Expert Search in Academia
https://dl.acm.org/doi/abs/10.1145/3477495.3531713
AUTHORS: Rennan C. Lima, Rodrygo L. T. Santos
HIGHLIGHT: Despite offering a complete picture of each candidate's scientific output, such lengthy profiles make it inefficient to leverage state-of-the-art neural architectures for inferring expertise. To overcome this limitation, we investigate the suitability of extractive summarization as a mechanism to reduce candidate profiles for semantic encoding using Transformers.

265, TITLE: Hybrid CNN Based Attention with Category Prior for User Image Behavior Modeling
https://dl.acm.org/doi/abs/10.1145/3477495.3531854
AUTHORS: Xin Chen, Qingtao Tang, Ke Hu, Yue Xu, Shihang Qiu, Jia Cheng, Jun Lei

HIGHLIGHT: To address the two issues, we propose a hybrid CNN based attention module, unifying user's image behaviors and category prior, for CTR prediction.

266, TITLE: Joint Optimization of Ad Ranking and Creative Selection
https://dl.acm.org/doi/abs/10.1145/3477495.3531855
AUTHORS: Kaiyi Lin, Xiang Zhang, Feng Li, Pengjie Wang, Qingqing Long, Hongbo Deng, Jian Xu, Bo Zheng
HIGHLIGHT: However, the existing common practices in the industry usually place the creative selection after the ad ranking stage, and thus the optimal creative fails to reflect the influence on the ad ranking stage. To address these issues, we propose a novel Cascade Architecture of Creative Selection (CACS), which is built before the ranking stage to joint optimization of intra-ad creative selection and inter-ad ranking.

267, TITLE: BERT-based Dense Intra-ranking and Contextualized Late Interaction via Multi-task Learning for Long Document Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531856
AUTHORS: Minghan Li, Eric Gaussier
HIGHLIGHT: In this paper, we propose a cascaded late interaction approach using a single model for long document retrieval.

268, TITLE: From Distillation to Hard Negative Sampling: Making Sparse Neural IR Models More Effective
https://dl.acm.org/doi/abs/10.1145/3477495.3531857
AUTHORS: Thibault Formal, Carlos Lassance, Benjamin Piwowarski, Stéphane Clinchant
HIGHLIGHT: In this work, we build on SPLADE -- a sparse expansion-based retriever -- and show to which extent it is able to benefit from the same training improvements as dense models, by studying the effect of distillation, hard-negative mining as well as the Pre-trained Language Model initialization.

269, TITLE: Which Discriminator for Cooperative Text Generation?
https://dl.acm.org/doi/abs/10.1145/3477495.3531858
AUTHORS: Antoine Chaffin, Thomas Scialom, Sylvain Lamprier, Jacopo Staiano, Benjamin Piwowarski, Ewa Kijak, Vincent Claveau
HIGHLIGHT: A solution is to use a classifier at each generation step, resulting in a cooperative environment where the classifier guides the decoding of the language model distribution towards relevant texts for the task at hand. In this paper, we examine three families of (transformer-based) discriminators for this specific task of cooperative decoding: bidirectional, left-to-right and generative ones.

270, TITLE: When Online Meets Offline: Exploring Periodicity for Travel Destination Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531859
AUTHORS: Wanjie Tao, Liangyue Li, Chen Chen, Zulong Chen, Hong Wen
HIGHLIGHT: In this paper, we propose an online-offline periodicity-aware information gain network, OOPIN, for travel destination prediction on OTPs.

271, TITLE: Long Document Re-ranking with Modular Re-ranker
https://dl.acm.org/doi/abs/10.1145/3477495.3531860
AUTHORS: Luyu Gao, Jamie Callan
HIGHLIGHT: In this paper, we propose instead to model full query-to-document interaction, leveraging the attention operation and modular Transformer re-ranker framework.

272, TITLE: Improving Micro-video Recommendation via Contrastive Multiple Interests
https://dl.acm.org/doi/abs/10.1145/3477495.3531861
AUTHORS: Beibei Li, Beihong Jin, Jiageng Song, Yisong Yu, Yiyuan Zheng, Wei Zhou
HIGHLIGHT: Recently, contrastive learning provides a new opportunity for refining the existing recommendation techniques. Therefore, in this paper, we propose to extract contrastive multi-interests and devise a micro-video recommendation model CMI.

273, TITLE: Is News Recommendation a Sequential Recommendation Task?
https://dl.acm.org/doi/abs/10.1145/3477495.3531862
AUTHORS: Chuhan Wu, Fangzhao Wu, Tao Qi, Chenliang Li, Yongfeng Huang
HIGHLIGHT: In this paper, we study whether news recommendation can be regarded as a standard sequential recommendation problem.

274, TITLE: InPars: Unsupervised Dataset Generation for Information Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531863
AUTHORS: Luiz Bonifacio, Hugo Abonizio, Marzieh Fadaee, Rodrigo Nogueira
HIGHLIGHT: In this work, we harness the few-shot capabilities of large pretrained language models as synthetic data generators for IR tasks.

275, TITLE: Identifying Argumentative Questions in Web Search Logs
https://dl.acm.org/doi/abs/10.1145/3477495.3531864
AUTHORS: Yamen Ajjour, Pavel Braslavski, Alexander Bondarenko, Benno Stein
HIGHLIGHT: We present an approach to identify argumentative questions among web search queries.

276, TITLE: Smooth-AUC: Smoothing the Path Towards Rank-based CTR Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3531865

AUTHORS: Shuang Tang, Fangyuan Luo, Jun Wu
HIGHLIGHT: It is noteworthy that directly optimizing AUC by gradient-descent methods is difficult due to the non-differentiable Heaviside function built-in AUC. To this end, we propose a smooth approximation of AUC, called smooth-AUC (SAUC), towards the rank-based CTR prediction.

277, TITLE: Diversity Vs Relevance: A Practical Multi-objective Study in Luxury Fashion Recommendations
https://dl.acm.org/doi/abs/10.1145/3477495.3531866
AUTHORS: João Só, Vanessa Queiroz Marinho, Ana Rita Magalhães, Tiago Lacerda, Diogo Goncalves
HIGHLIGHT: In this work, we explored a handful of diversification strategies to rerank the output of a relevance-focused recommender system.

278, TITLE: Revisiting Two-tower Models for Unbiased Learning to Rank
https://dl.acm.org/doi/abs/10.1145/3477495.3531837
AUTHORS: Le Yan, Zhen Qin, Honglei Zhuang, Xuanhui Wang, Michael Bendersky, Marc Najork
HIGHLIGHT: In this work, we revisit two-tower models for ULTR.

279, TITLE: Answering Count Queries with Explanatory Evidence
https://dl.acm.org/doi/abs/10.1145/3477495.3531870
AUTHORS: Shrestha Ghosh, Simon Razniewski, Gerhard Weikum
HIGHLIGHT: This paper proposes a methodology for answering count queries with inference, contextualization and explanatory evidence.

280, TITLE: Interactive Query Clarification and Refinement via User Simulation
https://dl.acm.org/doi/abs/10.1145/3477495.3531871
AUTHORS: Pierre Erbacher, Ludovic Denoyer, Laure Soulier
HIGHLIGHT: In this paper, we propose and evaluate a fully simulated query clarification framework allowing multi-turn interactions between IR systems and user agents.

281, TITLE: Summarizing Legal Regulatory Documents using Transformers
https://dl.acm.org/doi/abs/10.1145/3477495.3531872
AUTHORS: Svea Klaus, Ria Van Hecke, Kaweh Djafari Naini, Ismail Sengor Altingovde, Juan Bernabé-Moreno, Enrique Herrera-Viedma
HIGHLIGHT: This paper aims at applying advanced extractive summarization to democratize the understanding of regulations, so that non-jurists can decide which regulations deserve further follow-up.

282, TITLE: An MLP-based Algorithm for Efficient Contrastive Graph Recommendations
https://dl.acm.org/doi/abs/10.1145/3477495.3531874
AUTHORS: Siwei Liu, Iadh Ounis, Craig Macdonald
HIGHLIGHT: Motivated by the emerging contrastive learning technique, we design a simple neighbourhood construction method in conjunction with the contrastive objective function to simulate the neighbourhood information processing of GNN.

283, TITLE: Modeling User Behavior With Interaction Networks for Spam Detection
https://dl.acm.org/doi/abs/10.1145/3477495.3531875
AUTHORS: Prabhat Agarwal, Manisha Srivastava, Vishwakarma Singh, Charles Rosenberg
HIGHLIGHT: In this paper, we propose SEINE (Spam DEtection using Interaction NEtworks), a spam detection model over a novel graph framework.

284, TITLE: Relation Extraction as Open-book Examination: Retrieval-enhanced Prompt Tuning
https://dl.acm.org/doi/abs/10.1145/3477495.3531746
AUTHORS: Xiang Chen, Lei Li, Ningyu Zhang, Chuanqi Tan, Fei Huang, Luo Si, Huajun Chen
HIGHLIGHT: Those long-tailed or hard patterns can hardly be memorized in parameters given few-shot instances. To this end, we regard RE as an open-book examination and propose a new semiparametric paradigm of retrieval-enhanced prompt tuning for relation extraction.

285, TITLE: End-to-end Distantly Supervised Information Extraction with Retrieval Augmentation
https://dl.acm.org/doi/abs/10.1145/3477495.3531876
AUTHORS: Yue Zhang, Hongliang Fei, Ping Li
HIGHLIGHT: We propose a general paradigm (Dasiera) to resolve issues in KB-based DS.

286, TITLE: DeSCoVeR: Debiased Semantic Context Prior for Venue Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531877
AUTHORS: Sailaja Rajanala, Arghya Pal, Manish Singh, Raphaël C.-W. Phan, KokSheik Wong
HIGHLIGHT: We present a novel semantic context prior-based venue recommendation system that uses only the title and the abstract of a paper.

287, TITLE: Entity-Conditioned Question Generation for Robust Attention Distribution in Neural Information Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531878
AUTHORS: Revanth Gangi Reddy, Md Arafat Sultan, Martin Franz, Avirup Sil, Heng Ji

HIGHLIGHT: We show that supervised neural information retrieval (IR) models are prone to learning sparse attention patterns over passage tokens, which can result in key phrases including named entities receiving low attention weights, eventually leading to model under-performance.

288, TITLE: Assessing Scientific Research Papers with Knowledge Graphs
https://dl.acm.org/doi/abs/10.1145/3477495.3531879
AUTHORS: Kexuan Sun, Zhiqiang Qiu, Abel Salinas, Yuzhong Huang, Dong-Ho Lee, Daniel Benjamin, Fred Morstatter, Xiang Ren, Kristina Lerman, Jay Pujara
HIGHLIGHT: In this paper, we propose a novel approach towards automatically assessing scientific publications by constructing a knowledge graph (KG) that captures a holistic view of the research contributions.

289, TITLE: Matching Search Result Diversity with User Diversity Acceptance in Web Search Sessions
https://dl.acm.org/doi/abs/10.1145/3477495.3531880
AUTHORS: Jiqun Liu, Fangyuan Han
HIGHLIGHT: To address this gap between offline evaluations and users' expectations, we proposed an intuitive diversity acceptance measure and ran experiments for diversity acceptance prediction and diversity-aware re-ranking based on datasets from both controlled lab and naturalistic settings.

290, TITLE: Topological Analysis of Contradictions in Text
https://dl.acm.org/doi/abs/10.1145/3477495.3531881
AUTHORS: Xiangcheng Wu, Xi Niu, Ruhani Rahman
HIGHLIGHT: This study presents a topological approach to enhancing deep learning models in detecting contradictions in text.

291, TITLE: Addressing Gender-related Performance Disparities in Neural Rankers
https://dl.acm.org/doi/abs/10.1145/3477495.3531882
AUTHORS: Shirin Seyedsalehi, Amin Bigdeli, Negar Arabzadeh, Morteza Zihayat, Ebrahim Bagheri
HIGHLIGHT: In this paper, we investigate whether neural rankers introduce retrieval effectiveness (performance) disparities over queries related to different genders.

292, TITLE: Alignment Rationale for Query-Document Relevance
https://dl.acm.org/doi/abs/10.1145/3477495.3531883
AUTHORS: Youngwoo Kim, Razieh Rahimi, James Allan
HIGHLIGHT: In this paper, we study how the input perturbations can be used to infer or evaluate alignments between the query and document spans, which best explain the black-box ranker's relevance prediction.

293, TITLE: To Interpolate or not to Interpolate: PRF, Dense and Sparse Retrievers
https://dl.acm.org/doi/abs/10.1145/3477495.3531884
AUTHORS: Hang Li, Shuai Wang, Shengyao Zhuang, Ahmed Mourad, Xueguang Ma, Jimmy Lin, Guido Zuccon
HIGHLIGHT: In this paper we consider the problem of combining the relevance signals from sparse and dense retrievers in the context of Pseudo Relevance Feedback (PRF).

294, TITLE: A Content Recommendation Policy for Gaining Subscribers
https://dl.acm.org/doi/abs/10.1145/3477495.3531885
AUTHORS: Konstantinos Theocharidis, Manolis Terrovitis, Spiros Skiadopoulos, Panagiotis Karras
HIGHLIGHT: In this paper, we propose a novel content recommendation policy to a brand agent for Gaining Subscribers by Messaging (GSM) over many rounds.

295, TITLE: C3: Continued Pretraining with Contrastive Weak Supervision for Cross Language Ad-Hoc Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531886
AUTHORS: Eugene Yang, Suraj Nair, Ramraj Chandradevan, Rebecca Iglesias-Flores, Douglas W. Oard
HIGHLIGHT: Unlike monolingual retrieval, designing an appropriate auxiliary task for cross-language mappings is challenging. To address this challenge, we use comparable Wikipedia articles in different languages to further pretrain off-the-shelf multilingual pretrained models before fine-tuning on the retrieval task.

296, TITLE: Dual Pseudo Supervision for Semi-Supervised Text Classification with a Reliable Teacher
https://dl.acm.org/doi/abs/10.1145/3477495.3531887
AUTHORS: Shujie Li, Min Yang, Chengming Li, Ruifeng Xu
HIGHLIGHT: In this paper, we study the semi-supervised text classification (SSTC) by exploring both labeled and extra unlabeled data.

297, TITLE: Learning to Rank Knowledge Subgraph Nodes for Entity Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531888
AUTHORS: Parastoo Jafarzadeh, Zahra Amirmahani, Faezeh Ensan
HIGHLIGHT: In this paper, we propose a novel entity retrieval method that addresses the important challenge that revolves around the need to effectively represent and model context in which entities relate to each other.

298, TITLE: Mitigating the Filter Bubble While Maintaining Relevance: Targeted Diversification with VAE-based Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531890

AUTHORS: Zhaolin Gao, Tianshu Shen, Zheda Mai, Mohamed Reda Bouadjenek, Isaac Waller, Ashton Anderson, Ron Bodkin, Scott Sanner
HIGHLIGHT: Historically, Maximal Marginal Relevance (MMR) has been used to diversify result lists and even mitigate filter bubbles, but suffers from three key drawbacks: (1)~MMR directly sacrifices relevance for diversity, (2)~MMR typically diversifies across all content and not just targeted dimensions (e.g., political polarization), and (3)~MMR is inefficient in practice due to the need to compute pairwise similarities between recommended items. To simultaneously address these limitations, we propose a novel methodology that trains Concept Activation Vectors (CAVs) for targeted topical dimensions (e.g., political polarization).

299, TITLE: Mitigating Bias in Search Results Through Contextual Document Reranking and Neutrality Regularization
https://dl.acm.org/doi/abs/10.1145/3477495.3531891
AUTHORS: George Zerveas, Navid Rekabsaz, Daniel Cohen, Carsten Eickhoff
HIGHLIGHT: Recent research has therefore focused on developing methods for quantifying and mitigating bias in search results and applied them to contemporary retrieval systems that leverage transformer-based language models. In the present work, we expand this direction of research by considering bias mitigation within a framework for contextual document embedding reranking.

300, TITLE: A Meta-learning Approach to Fair Ranking
https://dl.acm.org/doi/abs/10.1145/3477495.3531892
AUTHORS: Yuan Wang, Zhiqiang Tao, Yi Fang
HIGHLIGHT: For example, the collected imbalance dataset on the subject of the expert search usually leads to systematic discrimination on the specific demographic groups such as race, gender, etc, which further reduces the exposure for the minority group. To solve this problem, we propose a Meta-learning based Fair Ranking (MFR) model that could alleviate the data bias for protected groups through an automatically-weighted loss.

301, TITLE: Can Users Predict Relative Query Effectiveness?
https://dl.acm.org/doi/abs/10.1145/3477495.3531893
AUTHORS: Oleg Zendel, Melika P. Ebrahim, J. Shane Culpepper, Alistair Moffat, Falk Scholer
HIGHLIGHT: Can they anticipate the effectiveness of alternative queries for the same retrieval need? To explore that question we designed and carried out a crowd-sourced user study in which we asked subjects to consider an information need statement expressed as a backstory, and then provide their opinions as to the relative usefulness of a set of queries ostensibly addressing that objective.

302, TITLE: ELECRec: Training Sequential Recommenders as Discriminators
https://dl.acm.org/doi/abs/10.1145/3477495.3531894
AUTHORS: Yongjun Chen, Jia Li, Caiming Xiong
HIGHLIGHT: In this work, we propose to train the sequential recommenders as discriminators rather than generators.

303, TITLE: Explainable Session-based Recommendation with Meta-path Guided Instances and Self-Attention Mechanism
https://dl.acm.org/doi/abs/10.1145/3477495.3531895
AUTHORS: Jiayin Zheng, Juanyun Mai, Yanlong Wen
HIGHLIGHT: However, the majority of current SR models are unexplainable and even those that claim to be interpretable cannot provide clear and convincing explanations of users' intentions and how they influence the models' decisions. To solve this problem, in this research, we propose a meta-path guided model which uses path instances to capture item dependencies, explicitly reveal the underlying motives, and illustrate the entire reasoning process.

304, TITLE: MM-Rec: Visiolinguistic Model Empowered Multimodal News Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531896
AUTHORS: Chuhan Wu, Fangzhao Wu, Tao Qi, Chao Zhang, Yongfeng Huang, Tong Xu
HIGHLIGHT: In this paper, we propose a multimodal news recommendation method that can incorporate both textual and visual information of news to learn multimodal news representations.

305, TITLE: Generative Adversarial Framework for Cold-Start Item Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531897
AUTHORS: Hao Chen, Zefan Wang, Feiran Huang, Xiao Huang, Yue Xu, Yishi Lin, Peng He, Zhoujun Li
HIGHLIGHT: To this end, we propose a general framework named Generative Adversarial Recommendation (GAR).

306, TITLE: Inconsistent Ranking Assumptions in Medical Search and Their Downstream Consequences
https://dl.acm.org/doi/abs/10.1145/3477495.3531898
AUTHORS: Daniel Cohen, Kevin Du, Bhaskar Mitra, Laura Mercurio, Navid Rekabsaz, Carsten Eickhoff
HIGHLIGHT: This paper presents the use of this uncertainty information as an indicator of how well downstream methods will function over a ranklist.

307, TITLE: Modality-Balanced Embedding for Video Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531899
AUTHORS: Xun Wang, Bingqing Ke, Xuanping Li, Fangyu Liu, Mingyu Zhang, Xiao Liang, Qiushi Xiao
HIGHLIGHT: We propose \modelname (short for Modality Balanced Video Retrieval) with two key components: manually generated modality-shuffled (MS) samples and a dynamic margin (DM) based on visual relevance.

308, TITLE: An Efficient Fusion Mechanism for Multimodal Low-resource Setting
https://dl.acm.org/doi/abs/10.1145/3477495.3531900
AUTHORS: Dushyant Singh Chauhan, Asif Ekbal, Pushpak Bhattacharyya

HIGHLIGHT: The fusion of different modalities could even be more challenging under the low-resource setting, where we have fewer samples for training. This paper proposes a multi-representative fusion mechanism that generates diverse fusions with multiple modalities and then chooses the best fusion among them.

309, TITLE: QSG Transformer: Transformer with Query-Attentive Semantic Graph for Query-Focused Summarization
https://dl.acm.org/doi/abs/10.1145/3477495.3531901
AUTHORS: Choongwon Park, Youngjoong Ko
HIGHLIGHT: However, the simple Transformer architecture cannot utilize the relationships between distant words and information from a query directly. In this study, we propose the QSG Transformer, a novel QFS model that leverages structure information on Query-attentive Semantic Graph (QSG) to address these issues.

310, TITLE: Improving Item Cold-start Recommendation via Model-agnostic Conditional Variational Autoencoder
https://dl.acm.org/doi/abs/10.1145/3477495.3531902
AUTHORS: Xu Zhao, Yi Ren, Ying Du, Shenzheng Zhang, Nian Wang
HIGHLIGHT: To address these problems, we propose a model-agnostic Conditional Variational Autoencoder based Recommendation(CVAR) framework with some advantages including compatibility on various backbones, no extra requirements for data, utilization of both historical data and recent emerging interactions.

311, TITLE: PST: Measuring Skill Proficiency in Programming Exercise Process via Programming Skill Tracing
https://dl.acm.org/doi/abs/10.1145/3477495.3531903
AUTHORS: Ruixin Li, Yu Yin, Le Dai, Shuanghong Shen, Xin Lin, Yu Su, Enhong Chen
HIGHLIGHT: Most of existing studies on learner capability portrait only made use of the exercise results, while the rich behavioral information contained in programming exercise process remains unused. Therefore, we propose a model that measures skill proficiency in programming exercise process named Programming Skill Tracing (PST).

312, TITLE: Towards Validating Long-Term User Feedbacks in Interactive Recommendation Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531869
AUTHORS: Hojoon Lee, Dongyoon Hwang, Kyushik Min, Jaegul Choo
HIGHLIGHT: In this work, we revisited experiments on IRS with review datasets and compared RL-based models with a simple reward model that greedily recommends the item with the highest one-step reward.

313, TITLE: Next Point-of-Interest Recommendation with Auto-Correlation Enhanced Multi-Modal Transformer Network
https://dl.acm.org/doi/abs/10.1145/3477495.3531905
AUTHORS: Yanjun Qin, Yuchen Fang, Haiyong Luo, Fang Zhao, Chenxing Wang
HIGHLIGHT: While many recent efforts show the effectiveness of recurrent neural network-based next POI recommendation algorithms, several important challenges have not been well addressed yet: (i) The majority of previous models only consider the dependence of consecutive visits, while ignoring the intricate dependencies of POIs in traces; (ii) The nature of hierarchical and the matching of sub-sequence in POI sequences are hardly model in prior methods; (iii) Most of the existing solutions neglect the interactions between two modals of POI and the density category. To tackle the above challenges, we propose an auto-correlation enhanced multi-modal Transformer network (AutoMTN) for the next POI recommendation.

314, TITLE: MuchSUM: Multi-channel Graph Neural Network for Extractive Summarization
https://dl.acm.org/doi/abs/10.1145/3477495.3531906
AUTHORS: Qianren Mao, Hongdong Zhu, Junnan Liu, Cheng Ji, Hao Peng, Jianxin Li, Lihong Wang, Zheng Wang
HIGHLIGHT: This paper presents MuchSUM, a better approach for extractive text summarization.

315, TITLE: Neutralizing Popularity Bias in Recommendation Models
https://dl.acm.org/doi/abs/10.1145/3477495.3531907
AUTHORS: Guipeng Xv, Chen Lin, Hui Li, Jinsong Su, Weiyao Ye, Yewang Chen
HIGHLIGHT: Item embeddings inherit popularity bias from the data, which leads to biased recommendations. We use this observation to design two simple and effective strategies, which can be flexibly plugged into different backbone recommendation models, to learn popularity neutral item representations.

316, TITLE: Lightweight Meta-Learning for Low-Resource Abstractive Summarization
https://dl.acm.org/doi/abs/10.1145/3477495.3531908
AUTHORS: Taehun Huh, Youngjoong Ko
HIGHLIGHT: Furthermore, the need for low-resource abstractive summarization task is emerging but existing methods for the task such as transfer learning still have domain shifting and overfitting problems. To address these problems, we propose a new framework for low-resource abstractive summarization using a meta-learning algorithm that can quickly adapt to a new domain using small data.

317, TITLE: Towards Personalized Bundle Creative Generation with Contrastive Non-Autoregressive Decoding
https://dl.acm.org/doi/abs/10.1145/3477495.3531909
AUTHORS: Penghui Wei, Shaoguo Liu, Xuanhua Yang, Liang Wang, Bo Zheng
HIGHLIGHT: To take both quality and efficiency into account, we propose a contrastive non-autoregressive model that captures user preferences with ingenious decoding objective.

318, TITLE: Exploiting Session Information in BERT-based Session-aware Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531910
AUTHORS: Jinseok Jamie Seol, Youngrok Ko, Sang-goo Lee

HIGHLIGHT: In this paper, we propose three methods to improve recommendation performance by exploiting session information while minimizing additional parameters in a BERT-based sequential recommendation model: using session tokens, adding session segment embeddings, and a time-aware self-attention.

319, TITLE: Posterior Probability Matters: Doubly-Adaptive Calibration for Neural Predictions in Online Advertising
https://dl.acm.org/doi/abs/10.1145/3477495.3531911
AUTHORS: Penghui Wei, Weimin Zhang, Ruijie Hou, Jinquan Liu, Shaoguo Liu, Liang Wang, Bo Zheng
HIGHLIGHT: In this paper we propose a doubly-adaptive approach AdaCalib.

320, TITLE: Towards Motivational and Empathetic Response Generation in Online Mental Health Support
https://dl.acm.org/doi/abs/10.1145/3477495.3531912
AUTHORS: Tulika Saha, Vaibhav Gakhreja, Anindya Sundar Das, Souhitya Chakraborty, Sriparna Saha
HIGHLIGHT: In this paper, we develop a Virtual Assistant (VA) that serves as a first point of contact for users who are depressed or disheartened.

321, TITLE: Selective Fairness in Recommendation via Prompts
https://dl.acm.org/doi/abs/10.1145/3477495.3531913
AUTHORS: Yiqing Wu, Ruobing Xie, Yongchun Zhu, Fuzhen Zhuang, Ao Xiang, Xu Zhang, Leyu Lin, Qing He
HIGHLIGHT: In this work, we define the selective fairness task, where users can flexibly choose which sensitive attributes should the recommendation model be bias-free.

322, TITLE: Multi-label Masked Language Modeling on Zero-shot Code-switched Sentiment Analysis
https://dl.acm.org/doi/abs/10.1145/3477495.3531914
AUTHORS: Zhi Li, Xing Gao, Ji Zhang, Yin Zhang
HIGHLIGHT: In this paper, we consider zero-shot setting and improve model performance on code-switched tasks via monolingual language datasets, unlabeled code-switched datasets, and semantic dictionaries.

323, TITLE: Expanded Lattice Embeddings for Spoken Document Retrieval on Informal Meetings
https://dl.acm.org/doi/abs/10.1145/3477495.3531921
AUTHORS: Esaúc; Villatoro-Tello, Srikanth Madikeri, Petr Motlicek, Aravind Ganapathiraju, Alexei V. Ivanov
HIGHLIGHT: In this paper, we evaluate different alternatives to process richer forms of Automatic Speech Recognition (ASR) output based on lattice expansion algorithms for Spoken Document Retrieval (SDR).

324, TITLE: Extractive Elementary Discourse Units for Improving Abstractive Summarization
https://dl.acm.org/doi/abs/10.1145/3477495.3531916
AUTHORS: Ye Xiong, Teeradaj Racharak, Minh Le Nguyen
HIGHLIGHT: In this paper, we apply elementary discourse unit (EDU) as textual unit of content selection.

325, TITLE: LightSGCN: Powering Signed Graph Convolution Network for Link Sign Prediction with Simplified Architecture Design
https://dl.acm.org/doi/abs/10.1145/3477495.3531917
AUTHORS: Haoxin Liu
HIGHLIGHT: In this work, we aim to simplify the architecture of signed GNNs to make it more concise and appropriate for link sign prediction.

326, TITLE: Dual Contrastive Network for Sequential Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531918
AUTHORS: Guanyu Lin, Chen Gao, Yinfeng Li, Yu Zheng, Zhiheng Li, Depeng Jin, Yong Li
HIGHLIGHT: In this paper, we propose D ual C ontrastive N etwork (DCN) to boost sequential recommendation, from a new perspective of integrating auxiliary user-sequence for items.

327, TITLE: ReLoop: A Self-Correction Continual Learning Loop for Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531922
AUTHORS: Guohao Cai, Jieming Zhu, Quanyu Dai, Zhenhua Dong, Xiuqiang He, Ruiming Tang, Rui Zhang
HIGHLIGHT: Inspired by the intuition that humans usually reflect and learn from mistakes, in this paper, we attempt to build a self-correction continual learning loop (dubbed ReLoop) for recommender systems.

328, TITLE: Task-Oriented Dialogue System as Natural Language Generation
https://dl.acm.org/doi/abs/10.1145/3477495.3531920
AUTHORS: Weizhi Wang, Zhirui Zhang, Junliang Guo, Yinpei Dai, Boxing Chen, Weihua Luo
HIGHLIGHT: In this paper, we propose to formulate the task-oriented dialogue system as the purely natural language generation task, so as to fully leverage the large-scale pre-trained models like GPT-2 and simplify complicated delexicalization prepossessing.

329, TITLE: Preference Enhanced Social Influence Modeling for Network-Aware Cascade Prediction
https://dl.acm.org/doi/abs/10.1145/3477495.3532042
AUTHORS: Likang Wu, Hao Wang, Enhong Chen, Zhi Li, Hongke Zhao, Jianhui Ma
HIGHLIGHT: To that end, we propose a novel framework to promote cascade size prediction by enhancing the user preference modeling according to three stages, i.e., preference topics generation, preference shift modeling, and social influence activation.

330, TITLE:　　　　Constructing Better Evaluation Metrics by Incorporating the Anchoring Effect into the User Model
https://dl.acm.org/doi/abs/10.1145/3477495.3531953
AUTHORS:　　　　Nuo Chen, Fan Zhang, Tetsuya Sakai
HIGHLIGHT:　　　　In this paper, we challenge the rational user assumption and introduce the anchoring effect into user models.

331, TITLE:　　　　Where Does the Performance Improvement Come From?: - A Reproducibility Concern about Image-Text Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531715
AUTHORS:　　　　Jun Rao, Fei Wang, Liang Ding, Shuhan Qi, Yibing Zhan, Weifeng Liu, Dacheng Tao
HIGHLIGHT:　　　　This article aims to provide the information retrieval community with some reflections on recent advances in retrieval learning by analyzing the reproducibility of image-text retrieval models.

332, TITLE:　　　　State Encoders in Reinforcement Learning for Recommendation: A Reproducibility Study
https://dl.acm.org/doi/abs/10.1145/3477495.3531716
AUTHORS:　　　　Jin Huang, Harrie Oosterhuis, Bunyamin Cetinkaya, Thijs Rood, Maarten de Rijke
HIGHLIGHT:　　　　However, this finding is limited to the actor-critic method, four state encoders, and evaluation-simulators that do not debias logged user data. In response to these shortcomings, we reproduce and expand on the existing comparison of attention-based state encoders (1) in the publicly available debiased RL4Rec SOFA simulator with (2) a different RL method, (3) more state encoders, and (4) a different dataset.

333, TITLE:　　　　Another Look at Information Retrieval as Statistical Translation
https://dl.acm.org/doi/abs/10.1145/3477495.3531717
AUTHORS:　　　　Yuqi Liu, Chengcheng Hu, Jimmy Lin
HIGHLIGHT:　　　　In this paper, we ask the simple question: What if Berger and Lafferty had access to datasets such as the MS MARCO passage ranking dataset that we take for granted today?

334, TITLE:　　　　Experiments on Generalizability of User-Oriented Fairness in Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531718
AUTHORS:　　　　Hossein A. Rahmani, Mohammadmehdi Naghiaei, Mahdi Dehghan, Mohammad Aliannejadi
HIGHLIGHT:　　　　In this paper, we re-produce a user-oriented fairness study and provide extensive experiments to analyze the dependency of their proposed method on various fairness and recommendation aspects, including the recommendation domain, nature of the base ranking model, and user grouping method.

335, TITLE:　　　　Users and Contemporary SERPs: A (Re-)Investigation
https://dl.acm.org/doi/abs/10.1145/3477495.3531719
AUTHORS:　　　　Nirmal Roy, David Maxwell, Claudia Hauff
HIGHLIGHT:　　　　In this paper, we reproduce the user studies conducted in prior works---specifically those of~\citetarguello2012task and~\citetsiu2014first ---to explore to what extent the findings from research conducted five to ten years ago still hold today as the average web user has become accustomed to SERPs with ever-increasing presentational complexity.

336, TITLE:　　　　Space4HGNN: A Novel, Modularized and Reproducible Platform to Evaluate Heterogeneous Graph Neural Network
https://dl.acm.org/doi/abs/10.1145/3477495.3531720
AUTHORS:　　　　Tianyu Zhao, Cheng Yang, Yibo Li, Quan Gan, Zhenyi Wang, Fengqi Liang, Huan Zhao, Yingxia Shao, Xiao Wang, Chuan Shi
HIGHLIGHT:　　　　To mitigate these issues, we first propose a unified framework covering most HGNNs, consisting of three components: heterogeneous linear transformation, heterogeneous graph transformation, and heterogeneous message passing layer. Then we build a platform Space4HGNN by defining a design space for HGNNs based on the unified framework, which offers modularized components, reproducible implementations, and standardized evaluation for HGNNs.

337, TITLE:　　　　An Inspection of the Reproducibility and Replicability of TCT-ColBERT
https://dl.acm.org/doi/abs/10.1145/3477495.3531721
AUTHORS:　　　　Xiao Wang, Sean MacAvaney, Craig Macdonald, Iadh Ounis
HIGHLIGHT:　　　　Among the most prominent of these approaches is TCT-ColBERT, which trains a light-weight "student" model from a more expensive "teacher" model. In this work, we take a closer look into TCT-ColBERT concerning its reproducibility and replicability.

338, TITLE:　　　　Is Non-IID Data a Threat in Federated Online Learning to Rank?
https://dl.acm.org/doi/abs/10.1145/3477495.3531709
AUTHORS:　　　　Shuyi Wang, Guido Zuccon
HIGHLIGHT:　　　　In this perspective paper we study the effect of non independent and identically distributed (non-IID) data on federated online learning to rank (FOLTR) and chart directions for future work in this new and largely unexplored research area of Information Retrieval.

339, TITLE:　　　　Towards Feature Selection for Ranking and Classification Exploiting Quantum Annealers
https://dl.acm.org/doi/abs/10.1145/3477495.3531755
AUTHORS:　　　　Maurizio Ferrari Dacrema, Fabio Moroni, Riccardo Nembrini, Nicola Ferro, Guglielmo Faggioli, Paolo Cremonesi
HIGHLIGHT:　　　　This paper aims to explore the feasibility of using currently available quantum computing architectures to solve some quadratic feature selection algorithms for both ranking and classification.

340, TITLE: Reduce, Reuse, Recycle: Green Information Retrieval Research
https://dl.acm.org/doi/abs/10.1145/3477495.3531766
AUTHORS: Harrisen Scells, Shengyao Zhuang, Guido Zuccon
HIGHLIGHT: Therefore, within the Information Retrieval community, the consequences of non-Green (in other words, Red) research should at least be considered and acknowledged. As such, the aims of this perspective paper are fourfold: (1) to review the Green literature not only for Information Retrieval but also for related domains in order to identify transferable Green techniques; (2) to provide measures for quantifying the power usage and emissions of Information Retrieval research; (3) to report the power usage and emission impacts for various current IR methods; and (4) to provide a framework to guide Green Information Retrieval research, taking inspiration from 'reduce, reuse, recycle' waste management campaigns, including salient examples from the literature that implement these concepts.

341, TITLE: Competitive Search
https://dl.acm.org/doi/abs/10.1145/3477495.3532771
AUTHORS: Oren Kurland, Moshe Tennenholtz
HIGHLIGHT: We provide a broad perspective on recent work on competitive retrieval settings, argue that this work is the tip of the iceberg, and pose a suite of novel research directions; for example, a general game theoretic framework for competitive search, methods of learning-to-rank that account for post-ranking effects, approaches to automatic document manipulation, addressing societal aspects and evaluation.

342, TITLE: Where Do Queries Come From?
https://dl.acm.org/doi/abs/10.1145/3477495.3531711
AUTHORS: Marwah Alaofi, Luke Gallagher, Dana Mckay, Lauren L. Saling, Mark Sanderson, Falk Scholer, Damiano Spina, Ryen W. White
HIGHLIGHT: In this paper we draw on a variety of literatures (including information seeking, psychology, and misinformation), and report some small experiments to describe what is known about where queries come from, and demonstrate a clear literature gap around the source of query variations in IR.

343, TITLE: On Natural Language User Profiles for Transparent and Scrutable Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531873
AUTHORS: Filip Radlinski, Krisztian Balog, Fernando Diaz, Lucas Dixon, Ben Wedin
HIGHLIGHT: Natural interaction with recommendation and personalized search systems has received tremendous attention in recent years. We focus on the challenge of supporting people's understanding and control of these systems and explore a fundamentally new way of thinking about representation of knowledge in recommendation and personalization systems.

344, TITLE: Retrieval-Enhanced Machine Learning
https://dl.acm.org/doi/abs/10.1145/3477495.3531722
AUTHORS: Hamed Zamani, Fernando Diaz, Mostafa Dehghani, Donald Metzler, Michael Bendersky
HIGHLIGHT: We describe a generic retrieval-enhanced machine learning (REML) framework, which includes a number of existing models as special cases.

345, TITLE: MET-Meme: A Multimodal Meme Dataset Rich in Metaphors
https://dl.acm.org/doi/abs/10.1145/3477495.3532019
AUTHORS: Bo Xu, Tingting Li, Junzhe Zheng, Mehdi Naseriparsa, Zhehuan Zhao, Hongfei Lin, Feng Xia
HIGHLIGHT: However, the existing researches ignore this key feature. Therefore, to incorporate informative metaphors into the meme analysis, we introduce a novel multimodal meme dataset called MET-Meme, which is rich in metaphorical features.

346, TITLE: Revisiting Bundle Recommendation: Datasets, Tasks, Challenges and Opportunities for Intent-aware Product Bundling
https://dl.acm.org/doi/abs/10.1145/3477495.3531904
AUTHORS: Zhu Sun, Jie Yang, Kaidong Feng, Hui Fang, Xinghua Qu, Yew Soon Ong
HIGHLIGHT: In this paper, we propose to take a step back and consider the process of bundle recommendation from a holistic user experience perspective.

347, TITLE: BARS: Towards Open Benchmarking for Recommender Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3531723
AUTHORS: Jieming Zhu, Quanyu Dai, Liangcai Su, Rong Ma, Jinyang Liu, Guohao Cai, Xi Xiao, Rui Zhang
HIGHLIGHT: This largely limits the credibility and practical value of research results in this field. To tackle these issues, we present an initiative project aimed for open benchmarking for recommender systems.

348, TITLE: OVQA: A Clinically Generated Visual Question Answering Dataset
https://dl.acm.org/doi/abs/10.1145/3477495.3531724
AUTHORS: Yefan Huang, Xiaoli Wang, Feiyan Liu, Guofeng Huang
HIGHLIGHT: To address the challenge, we present a new dataset, denoted by OVQA, which is generated from electronic medical records.

349, TITLE: Fostering Coopetition While Plugging Leaks: The Design and Implementation of the MS MARCO Leaderboards
https://dl.acm.org/doi/abs/10.1145/3477495.3531725
AUTHORS: Jimmy Lin, Daniel Campos, Nick Craswell, Bhaskar Mitra, Emine Yilmaz

HIGHLIGHT: These "leaks", accumulated over long periods of time, threaten the validity of the insights that can be derived from the leaderboards. In this paper, we share our experiences grappling with this issue over the past few years and how our considerations are operationalized into a coherent submission policy.

350, TITLE: Monant Medical Misinformation Dataset: Mapping Articles to Fact-Checked Claims
https://dl.acm.org/doi/abs/10.1145/3477495.3531726
AUTHORS: Ivan Srba, Branislav Pecher, Matus Tomlein, Robert Moro, Elena Stefancova, Jakub Simko, Maria Bielikova
HIGHLIGHT: Especially in the current COVID-19 era, we witness an unprecedented growth of medical misinformation. To help tackle this problem with machine learning approaches, we are publishing a feature-rich dataset of approx. 317k medical news articles/blogs and 3.5k fact-checked claims.

351, TITLE: A Dataset for Sentence Retrieval for Open-Ended Dialogues
https://dl.acm.org/doi/abs/10.1145/3477495.3531727
AUTHORS: Itay Harel, Hagai Taitelbaum, Idan Szpektor, Oren Kurland
HIGHLIGHT: To adapt neural models to the types of dialogues in the dataset, we explored an approach to induce a large-scale weakly supervised training data from Reddit.

352, TITLE: Too Many Relevants: Whither Cranfield Test Collections?
https://dl.acm.org/doi/abs/10.1145/3477495.3531728
AUTHORS: Ellen M. Voorhees, Nick Craswell, Jimmy Lin
HIGHLIGHT: This paper presents the lessons regarding the construction and use of large Cranfield-style test collections learned from the TREC 2021 Deep Learning track.

353, TITLE: ACORDAR: A Test Collection for Ad Hoc Content-Based (RDF) Dataset Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531729
AUTHORS: Tengteng Lin, Qiaosheng Chen, Gong Cheng, Ahmet Soylu, Basil Ell, Ruoqi Zhao, Qing Shi, Xiaxia Wang, Yu Gu, Evgeny Kharlamov
HIGHLIGHT: In this paper, we build and release the first test collection for ad hoc content-based dataset retrieval, where content-oriented dataset queries and content-based relevance judgments are annotated by human experts who are assisted with a dashboard designed specifically for comprehensively and conveniently browsing both the metadata and data of a dataset.

354, TITLE: RELISON: A Framework for Link Recommendation in Social Networks
https://dl.acm.org/doi/abs/10.1145/3477495.3531730
AUTHORS: Javier Sanz-Cruzado, Pablo Castells
HIGHLIGHT: We present RELISON, an extensible framework for running link recommendation experiments.

355, TITLE: Wikimarks: Harvesting Relevance Benchmarks from Wikipedia
https://dl.acm.org/doi/abs/10.1145/3477495.3531731
AUTHORS: Laura Dietz, Shubham Chatterjee, Connor Lennox, Sumanta Kashyapi, Pooja Oza, Ben Gamari
HIGHLIGHT: We provide a resource for automatically harvesting relevance benchmarks from Wikipedia -- which we refer to as "Wikimarks" to differentiate them from manually created benchmarks.

356, TITLE: ReMeDi: Resources for Multi-domain, Multi-service, Medical Dialogues
https://dl.acm.org/doi/abs/10.1145/3477495.3531809
AUTHORS: Guojun Yan, Jiahuan Pei, Pengjie Ren, Zhaochun Ren, Xin Xin, Huasheng Liang, Maarten de Rijke, Zhumin Chen
HIGHLIGHT: \endenumerate* In this paper, we present \acsReMeDi, a set of \aclReMeDi \acusedReMeDi.

357, TITLE: ArchivalQA: A Large-scale Benchmark Dataset for Open-Domain Question Answering over Historical News Collections
https://dl.acm.org/doi/abs/10.1145/3477495.3531734
AUTHORS: Jiexin Wang, Adam Jatowt, Masatoshi Yoshikawa
HIGHLIGHT: To foster the research in the field of ODQA on such historical collections, we present ArchivalQA, a large question answering dataset consisting of 532,444 question-answer pairs which is designed for temporal news QA.

358, TITLE: SoChainDB: A Database for Storing and Retrieving Blockchain-Powered Social Network Data
https://dl.acm.org/doi/abs/10.1145/3477495.3531735
AUTHORS: Hoang H. Nguyen, Dmytro Bozhkov, Zahra Ahmadi, Nhat-Minh Nguyen, Thanh-Nam Doan
HIGHLIGHT: However, accessing and collecting data from these social networks is not easy because it requires strong blockchain knowledge, which is not the main focus of computer science and social science researchers. Hence, our work proposes the SoChainDB framework that facilitates obtaining data from these new social networks.

359, TITLE: Multi-CPR: A Multi Domain Chinese Dataset for Passage Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531736
AUTHORS: Dingkun Long, Qiong Gao, Kuan Zou, Guangwei Xu, Pengjun Xie, Ruijie Guo, Jian Xu, Guanjun Jiang, Luxi Xing, Ping Yang
HIGHLIGHT: However, in the Chinese field, especially for specific domains, passage retrieval systems are still immature due to quality-annotated dataset being limited by scale. Therefore, in this paper, we present a novel multi-domain Chinese dataset for passage retrieval (Multi-CPR).

360, TITLE: ORCAS-I: Queries Annotated with Intent using Weak Supervision
https://dl.acm.org/doi/abs/10.1145/3477495.3531737
AUTHORS: Daria Alexander, Wojciech Kusa, Arjen P. de Vries
HIGHLIGHT: In this work, we introduce a revised taxonomy of user intent.

361, TITLE: CODEC: Complex Document and Entity Collection
https://dl.acm.org/doi/abs/10.1145/3477495.3531712
AUTHORS: Iain Mackie, Paul Owoicho, Carlos Gemmell, Sophie Fischer, Sean MacAvaney, Jeffrey Dalton
HIGHLIGHT: We target essay-style information needs of social science researchers, i.e. "How has the UK's Open Banking Regulation benefited Challenger Banks".

362, TITLE: ir_metadata: An Extensible Metadata Schema for IR Experiments
https://dl.acm.org/doi/abs/10.1145/3477495.3531738
AUTHORS: Timo Breuer, Jüri Keller, Philipp Schaer
HIGHLIGHT: In this work, we introduce \textttir_metadata - an extensible metadata schema for TREC run files based on the PRIMAD model.

363, TITLE: Would You Ask it that Way?: Measuring and Improving Question Naturalness for Knowledge Graph Question Answering
https://dl.acm.org/doi/abs/10.1145/3477495.3531739
AUTHORS: Trond Linjordet, Krisztian Balog
HIGHLIGHT: However, the resulting datasets often fall short of representing genuinely natural and fluent language. In the present work, we investigate ways to characterize and remedy these shortcomings.

364, TITLE: The Istella22 Dataset: Bridging Traditional and Neural Learning to Rank Evaluation
https://dl.acm.org/doi/abs/10.1145/3477495.3531740
AUTHORS: Domenico Dato, Sean MacAvaney, Franco Maria Nardini, Raffaele Perego, Nicola Tonellotto
HIGHLIGHT: On the other hand, the benchmarks often used for evaluating neural models, e.g., MS MARCO, TREC Robust, etc., provide text but do not provide query-document feature vectors. In this paper, we present Istella22, a new dataset that enables such comparisons by providing both query/document text and strong query-document feature vectors used by an industrial search engine.

365, TITLE: ViQuAE, a Dataset for Knowledge-based Visual Question Answering about Named Entities
https://dl.acm.org/doi/abs/10.1145/3477495.3531753
AUTHORS: Paul Lerner, Olivier Ferret, Camille Guinaudeau, Hervé Le Borgne, Romaric Besançon, Jose G. Moreno, Jesús Lovón Melgarejo
HIGHLIGHT: In this context, we are interested in answering questions about named entities grounded in a visual context using a Knowledge Base (KB).

366, TITLE: Biographical Semi-Supervised Relation Extraction Dataset
https://dl.acm.org/doi/abs/10.1145/3477495.3531742
AUTHORS: Alistair Plum, Tharindu Ranasinghe, Spencer Jones, Constantin Orasan, Ruslan Mitkov
HIGHLIGHT: The dataset, which is aimed towards digital humanities (DH) and historical research, is automatically compiled by aligning sentences from Wikipedia articles with matching structured data from sources including Pantheon and Wikidata.

367, TITLE: Axiomatic Retrieval Experimentation with ir_axioms
https://dl.acm.org/doi/abs/10.1145/3477495.3531743
AUTHORS: Alexander Bondarenko, Maik Fröbe, Jan Heinrich Reimer, Benno Stein, Michael Völske, Matthias Hagen
HIGHLIGHT: However, recent open-source retrieval frameworks like PyTerrier and Pyserini, which made it easy to experiment with sparse and dense retrieval models, have not included any retrieval axiom support so far. To fill this gap, we propose ir_axioms, an open-source Python framework that integrates retrieval axioms with common retrieval frameworks.

368, TITLE: MuMiN: A Large-Scale Multilingual Multimodal Fact-Checked Misinformation Social Network Dataset
https://dl.acm.org/doi/abs/10.1145/3477495.3531744
AUTHORS: Dan S. Nielsen, Ryan McConville
HIGHLIGHT: However, datasets in the field of automatic misinformation detection are predominantly monolingual, include a limited amount of modalities and are not of sufficient scale and quality. Addressing this, we develop a data collection and linking system (MuMiN-trawl), to build a public misinformation graph dataset (MuMiN), containing rich social media data (tweets, replies, users, images, articles, hashtags) spanning 21 million tweets belonging to 26 thousand Twitter threads, each of which have been semantically linked to 13 thousand fact-checked claims across dozens of topics, events and domains, in 41 different languages, spanning more than a decade.

369, TITLE: CAVES: A Dataset to facilitate Explainable Classification and Summarization of Concerns towards COVID Vaccines
https://dl.acm.org/doi/abs/10.1145/3477495.3531745
AUTHORS: Soham Poddar, Azlaan Mustafa Samad, Rajdeep Mukherjee, Niloy Ganguly, Saptarshi Ghosh
HIGHLIGHT: In this paper, we have curated CAVES, the first large-scale dataset containing about 10k COVID-19 anti-vaccine tweets labelled into various specific anti-vaccine concerns in a multi-label setting.

370, TITLE: iRec: An Interactive Recommendation Framework
https://dl.acm.org/doi/abs/10.1145/3477495.3531754
AUTHORS: Thiago Silva, Nícollas Silva, Heitor Werneck, Carlos Mito, Adriano C.M. Pereira, Leonardo Rocha
HIGHLIGHT: Thus, this work proposes an interactive RS framework named iRec.

371, TITLE: From Little Things Big Things Grow: A Collection with Seed Studies for Medical Systematic Review Literature Search
https://dl.acm.org/doi/abs/10.1145/3477495.3531748
AUTHORS: Shuai Wang, Harrisen Scells, Justin Clark, Bevan Koopman, Guido Zuccon
HIGHLIGHT: To support our collection, we provide an analysis, previously not possible, on how seed studies impact retrieval and perform several experiments using seed study based methods to compare the effectiveness of using seed studies versus pseudo seed studies.

372, TITLE: Document Expansion Baselines and Learned Sparse Lexical Representations for MS MARCO V1 and V2
https://dl.acm.org/doi/abs/10.1145/3477495.3531749
AUTHORS: Xueguang Ma, Ronak Pradeep, Rodrigo Nogueira, Jimmy Lin
HIGHLIGHT: This work describes a number of resources that support competitive, reproducible baselines for both the MS MARCO V1 and V2 test collections using our Anserini and Pyserini IR toolkits.

373, TITLE: MIMICS-Duo: Offline & Online Evaluation of Search Clarification
https://dl.acm.org/doi/abs/10.1145/3477495.3531750
AUTHORS: Leila Tavakoli, Johanne R. Trippas, Hamed Zamani, Falk Scholer, Mark Sanderson
HIGHLIGHT: Asking clarification questions is an active area of research; however, resources for training and evaluating search clarification methods are not sufficient. To address this issue, we describe MIMICS-Duo, a new freely available dataset of 306 search queries with multiple clarifications (a total of 1,034 query-clarification pairs).

374, TITLE: Knowledge Graph Question Answering Datasets and Their Generalizability: Are They Enough for Future Research?
https://dl.acm.org/doi/abs/10.1145/3477495.3531751
AUTHORS: Longquan Jiang, Ricardo Usbeck
HIGHLIGHT: In this work, we propose a mitigation method for re-splitting available KGQA datasets to enable their applicability to evaluate generalization, without any cost and manual effort.

375, TITLE: SparCAssist: A Model Risk Assessment Assistant Based on Sparse Generated Counterfactuals
https://dl.acm.org/doi/abs/10.1145/3477495.3531677
AUTHORS: Zijian Zhang, Vinay Setty, Avishek Anand
HIGHLIGHT: We introduce SparCAssist, a general-purpose risk assessment tool for the machine learning models trained for language tasks.

376, TITLE: RecDelta: An Interactive Dashboard on Top-k Recommendation for Cross-model Evaluation
https://dl.acm.org/doi/abs/10.1145/3477495.3531674
AUTHORS: Yi-Shyuan Chiang, Yu-Ze Liu, Chen-Feng Tsai, Jing-Kai Lou, Ming-Feng Tsai, Chuan-Ju Wang
HIGHLIGHT: In this demonstration, we present RecDelta, an interactive tool for the cross-model evaluation of top-k recommendation.

377, TITLE: A Common Framework for Exploring Document-at-a-Time and Score-at-a-Time Retrieval Methods
https://dl.acm.org/doi/abs/10.1145/3477495.3531657
AUTHORS: Andrew Trotman, Joel Mackenzie, Pradeesh Parameswaran, Jimmy Lin
HIGHLIGHT: Our contribution is a framework that enables future research comparing DaaT and SaaT methods in the context of modern neural retrieval models.

378, TITLE: Asyncval: A Toolkit for Asynchronously Validating Dense Retriever Checkpoints During Training
https://dl.acm.org/doi/abs/10.1145/3477495.3531658
AUTHORS: Shengyao Zhuang, Guido Zuccon
HIGHLIGHT: Thus, a naïve use of validation loops during training will significantly increase training time. To address this issue, we propose Asyncval: a Python-based toolkit for efficiently validating DR checkpoints during training.

379, TITLE: TaskMAD: A Platform for Multimodal Task-Centric Knowledge-Grounded Conversational Experimentation
https://dl.acm.org/doi/abs/10.1145/3477495.3531679
AUTHORS: Alessandro Speggiorin, Jeffrey Dalton, Anton Leuski
HIGHLIGHT: In this demo, we introduce Task-oriented Multimodal Agent Dialogue (TaskMAD), a new platform that supports the creation of interactive multimodal and task-centric datasets in a Wizard-of-Oz experimental setup.

380, TITLE: Golden Retriever: A Real-Time Multi-Modal Text-Image Retrieval System with the Ability to Focus
https://dl.acm.org/doi/abs/10.1145/3477495.3531666
AUTHORS: Florian Schneider, Chris Biemann
HIGHLIGHT: In this work, we present the Golden Retriever, a system leveraging state-of-the-art visio-linguistic models (VLMs) for real-time text-image retrieval.

381, TITLE: BiTe-REx: An Explainable Bilingual Text Retrieval System in the Automotive Domain

https://dl.acm.org/doi/abs/10.1145/3477495.3531665
AUTHORS: Viju Sudhi, Sabine Wehnert, Norbert Michael Homner, Sebastian Ernst, Mark Gonter, Andreas Krug, Ernesto William De Luca
HIGHLIGHT: This work presents the first-of-its-kind Bilingual Text Retrieval Explanations (BiTe-REx) aimed at users performing competitor or wage analysis in the automotive domain.

382, TITLE: TARexp: A Python Framework for Technology-Assisted Review Experiments
https://dl.acm.org/doi/abs/10.1145/3477495.3531663
AUTHORS: Eugene Yang, David D. Lewis
HIGHLIGHT: Drawing on past open source TAR efforts, as well as design patterns from the IR and ML open source software, we present an open source Python framework for conducting experiments on TAR algorithms.

383, TITLE: ZeroMatcher: A Cost-Off Entity Matching System
https://dl.acm.org/doi/abs/10.1145/3477495.3531661
AUTHORS: Congcong Ge, Xiaocan Zeng, Lu Chen, Yunjun Gao
HIGHLIGHT: The existing EM techniques can be either costly or tailored for a specific data type. We present ZeroMatcher, a cost-off entity matching system, which supports (i) handling EM tasks with different data types, including relational tables and knowledge graphs; (ii) keeping its EM performance always competitive by enabling the sub-modules to be updated in a lightweight manner, thus reducing development costs; and (iii) performing EM without human annotations to further slash the labor costs.

384, TITLE: Table Enrichment System for Machine Learning
https://dl.acm.org/doi/abs/10.1145/3477495.3531678
AUTHORS: Yuyang Dong, Masafumi Oyamada
HIGHLIGHT: We propose a table enrichment system that enriches a query table by adding external attributes (columns) from data lakes and improves the accuracy of machine learning predictive models.

385, TITLE: QFinder: A Framework for Quantity-centric Ranking
https://dl.acm.org/doi/abs/10.1145/3477495.3531672
AUTHORS: Satya Almasian, Milena Bruseva, Michael Gertz
HIGHLIGHT: In this work, we demonstrate QFinder, our quantity-centric framework for ranking search results for queries with quantity constraints.

386, TITLE: ROGUE: A System for Exploratory Search of GANs
https://dl.acm.org/doi/abs/10.1145/3477495.3531675
AUTHORS: Yang Liu, Alan Medlar, Dorota Glowacka
HIGHLIGHT: In this article, we present ROGUE, a system to support exploratory search of images generated from GANs.

387, TITLE: CHERCHE: A New Tool to Rapidly Implement Pipelines in Information Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3531695
AUTHORS: Raphaël Sourty, Jose G. Moreno, Lynda Tamine, Francois-Paul Servant
HIGHLIGHT: In this demo paper, we present a new open-source python module for building information retrieval pipelines with transformers namely CHERCHE.

388, TITLE: Online DATEing: A Web Interface for Temporal Annotations
https://dl.acm.org/doi/abs/10.1145/3477495.3531670
AUTHORS: Dennis Aumiller, Satya Almasian, David Pohl, Michael Gertz
HIGHLIGHT: In this work, we aim to increase the accessibility of temporal tagging systems by presenting an intuitive web interface, called "Online DATEing", which simplifies the interaction with existing temporal annotation frameworks.

389, TITLE: Are Taylor's Posts Risky? Evaluating Cumulative Revelations in Online Personal Data: A persona-based tool for evaluating awareness of online risks and harms
https://dl.acm.org/doi/abs/10.1145/3477495.3531659
AUTHORS: Leif Azzopardi, Jo Briggs, Melissa Duheric, Callum Nash, Emma Nicol, Wendy Moncur, Burkhard Schafer
HIGHLIGHT: In this demonstration paper, we present a tool designed to investigate how people assess and judge the relevance and potential risks ofsmall, apparently innocuous pieces of information associated with fictitious personas, such as Taylor Addison, when searching and browsing online profiles and social media.

390, TITLE: LawNet-Viz: A Web-based System to Visually Explore Networks of Law Article References
https://dl.acm.org/doi/abs/10.1145/3477495.3531668
AUTHORS: Lucio La Cava, Andrea Simeri, Andrea Tagarelli
HIGHLIGHT: We present LawNet-Viz, a web-based tool for the modeling, analysis and visualization of law reference networks extracted from a statute law corpus.

391, TITLE: SpaceQA: Answering Questions about the Design of Space Missions and Space Craft Concepts
https://dl.acm.org/doi/abs/10.1145/3477495.3531697
AUTHORS: Andres Garcia-Silva, Cristian Berrio, Jose Manuel Gomez-Perez, Jose Antonio Martínez-Heras, Alessandro Donati, Ilaria Roma
HIGHLIGHT: We present SpaceQA, to the best of our knowledge the first open-domain QA system in Space mission design.

392, TITLE: DIANES: A DEI Audit Toolkit for News Sources

https://dl.acm.org/doi/abs/10.1145/3477495.3531660
AUTHORS: Xiaoxiao Shang, Zhiyuan Peng, Qiming Yuan, Sabiq Khan, Lauren Xie, Yi Fang, Subramaniam Vincent
HIGHLIGHT: In this paper, we present DIANES, a DEI Audit Toolkit for News Sources.

393, TITLE: A2A-API: A Prototype for Biomedical Information Retrieval Research and Benchmarking
https://dl.acm.org/doi/abs/10.1145/3477495.3531667
AUTHORS: Maciej Rybinski, Liam Watts, Sarvnaz Karimi
HIGHLIGHT: Finally, many of the existing baselines and systems are difficult to reproduce. We aim to alleviate all three of these bottlenecks with the launch of A2A-API.

394, TITLE: NeuralKG: An Open Source Library for Diverse Representation Learning of Knowledge Graphs
https://dl.acm.org/doi/abs/10.1145/3477495.3531669
AUTHORS: Wen Zhang, Xiangnan Chen, Zhen Yao, Mingyang Chen, Yushan Zhu, Hongtao Yu, Yufeng Huang, Yajing Xu, Ningyu Zhang, Zezhong Xu, Zonggang Yuan, Feiyu Xiong, Huajun Chen
HIGHLIGHT: NeuralKG is an open-source Python-based library for diverse representation learning of knowledge graphs.

395, TITLE: IRVILAB: Gamified Searching on Multilingual Wikipedia
https://dl.acm.org/doi/abs/10.1145/3477495.3531662
AUTHORS: Paavo Arvola, Tuulikki Alamettälä
HIGHLIGHT: This paper introduces a learning environment based on gamification of query construction for document retrieval, called IRVILAB (Information Retrieval Virtual Lab).

396, TITLE: PKG: A Personal Knowledge Graph for Recommendation
https://dl.acm.org/doi/abs/10.1145/3477495.3531671
AUTHORS: Yu Yang, Jiangxu Lin, Xiaolian Zhang, Meng Wang
HIGHLIGHT: In this paper, we demonstrate a novel system for integrating the data of a user from different sources into a Personal Knowledge Graph, i.e., PKG.

397, TITLE: A Python Interface to PISA!
https://dl.acm.org/doi/abs/10.1145/3477495.3531656
AUTHORS: Sean MacAvaney, Craig Macdonald
HIGHLIGHT: In this work, we demonstrate a new tool that provides a native Python wrapper around PISA.

398, TITLE: Arm: Efficient Learning of Neural Retrieval Models with Desired Accuracy by Automatic Knowledge Amalgamation
https://dl.acm.org/doi/abs/10.1145/3477495.3531664
AUTHORS: Linzhu Yu, Dawei Jiang, Ke Chen, Lidan Shou
HIGHLIGHT: This paper will demonstrate the major workflow of Arm and present the produced student models to users.

399, TITLE: Quote Erat Demonstrandum: A Web Interface for Exploring the Quotebank Corpus
https://dl.acm.org/doi/abs/10.1145/3477495.3531696
AUTHORS: Vuk Vuković, Akhil Arora, Huan-Cheng Chang, Andreas Spitz, Robert West
HIGHLIGHT: Here, we present an adaptive web interface for searching Quotebank, a massive collection of quotes from the news, which we make available at https://quotebank.dlab.tools.

400, TITLE: DDEN: A Heterogeneous Learning-to-Rank Approach with Deep Debiasing Experts Network
https://dl.acm.org/doi/abs/10.1145/3477495.3536320
AUTHORS: Wenchao Xiu, Yiran Wang, Taofeng Xue, Kai Zhang, Qin Zhang, Zhonghuo Wu, Yifan Yang, Gong Zhang
HIGHLIGHT: New challenges are faced when conducting heterogeneous ranking, including inconsistent feature space and more serious position bias caused by distinct representation spaces. Therefore, we propose Deep Debiasing Experts Network (DDEN), a novel heterogeneous LTR approach based on Mixture-of-Experts architecture and gating network, to deal with the inconsistent feature space of documents in ranking system.

401, TITLE: ClueWeb22: 10 Billion Web Documents with Rich Information
https://dl.acm.org/doi/abs/10.1145/3477495.3536321
AUTHORS: Arnold Overwijk, Chenyan Xiong, Jamie Callan
HIGHLIGHT: Several aspects of ClueWeb22 are available to the research community for the first time at this scale, for example, visual representations of rendered web pages, parsed structured information from the HTML document, and the alignment of document distributions (domains, languages, and topics) to commercial web search. This talk shares the design and construction of ClueWeb22, and discusses its new features.

402, TITLE: An Auto Encoder-based Dimensionality Reduction Technique for Efficient Entity Linking in Business Phone Conversations
https://dl.acm.org/doi/abs/10.1145/3477495.3536322
AUTHORS: Md Tahmid Rahman Laskar, Cheng Chen, Jonathan Johnston, Xue-Yong Fu, Shashi Bhushan TN, Simon Corston-Oliver
HIGHLIGHT: In this work, we present an entity linking system that leverages a transformer-based BERT encoder (the BLINK model) to connect the product and organization type entities in business phone conversations to their corresponding Wikipedia entries.

403, TITLE: An Intelligent Advertisement Short Video Production System via Multi-Modal Retrieval

https://dl.acm.org/doi/abs/10.1145/3477495.3536323
AUTHORS: Yanheng Wei, Lianghua Huang, Yanhao Zhang, Yun Zheng, Pan Pan
HIGHLIGHT: paper proposes an intelligent advertising video production system driven by multi-modal retrieval, which only requires the input of descriptive copy.

404, TITLE: Applications and Future of Dense Retrieval in Industry
https://dl.acm.org/doi/abs/10.1145/3477495.3536324
AUTHORS: Yubin Kim
HIGHLIGHT: In this panel, we bring together experts in dense retrieval across multiple industry applications, including web search, enterprise and personal search, e-commerce, and out-of-domain retrieval.

405, TITLE: Scalable User Interface Optimization Using Combinatorial Bandits
https://dl.acm.org/doi/abs/10.1145/3477495.3536325
AUTHORS: Ioannis Kangas, Maud Schwoerer, Lucas Bernardi
HIGHLIGHT: In this work, we demonstrate how we deal with these issues using Combinatorial Bandits, an extension of Multi-Armed Bandits (MAB) where the agent selects not only one but multiple arms at the same time.

406, TITLE: Flipping the Script: Inverse Information Seeking Dialogues for Market Research
https://dl.acm.org/doi/abs/10.1145/3477495.3536326
AUTHORS: Josh Seltzer, Kathy Cheng, Shi Zong, Jimmy Lin
HIGHLIGHT: In this work, we introduce and provide a formal definition of an inverse information seeking agent, outline some of its unique challenges, and propose our novel framework to tackle this problem based on techniques from natural language processing (NLP) and IIR.

407, TITLE: Information Ecosystem Threats in Minoritized Communities: Challenges, Open Problems and Research Directions
https://dl.acm.org/doi/abs/10.1145/3477495.3536327
AUTHORS: Shiri Dori-Hacohen, Scott A. Hale
HIGHLIGHT: In this panel, we will present and discuss the challenges and open problems facing such communities and the researchers hoping to serve them.

408, TITLE: Extractive Search for Analysis of Biomedical Texts
https://dl.acm.org/doi/abs/10.1145/3477495.3536328
AUTHORS: Daniel Clothiaux, Ravi Starzl
HIGHLIGHT: We present a two-stage system targeted towards biomedical texts.

409, TITLE: Organizing Portuguese Legal Documents through Topic Discovery
https://dl.acm.org/doi/abs/10.1145/3477495.3536329
AUTHORS: Daniela Vianna, Edleno Silva de Moura
HIGHLIGHT: Using a dataset partially curated by the Jusbrasil legal team, we explore topic modeling solutions using state of the art language models, trained with legal Portuguese documents, to automatically organize and summarize this complex collection of documents.

410, TITLE: Query Facet Mapping and its Applications in Streaming Services: The Netflix Case Study
https://dl.acm.org/doi/abs/10.1145/3477495.3536330
AUTHORS: Sudeep Das, Ivan Provalov, Vickie Zhang, Weidong Zhang
HIGHLIGHT: In this paper, we present a high level overview of a Query Facet Mapping system that we have developed at Netflix, describe its main components, provide evaluation results with real-world data, and outline several potential applications.

411, TITLE: A Low-Cost, Controllable and Interpretable Task-Oriented Chatbot: With Real-World After-Sale Services as Example
https://dl.acm.org/doi/abs/10.1145/3477495.3536331
AUTHORS: Xiangyu Xi, Chenxu Lv, Yuncheng Hua, Wei Ye, Chaobo Sun, Shuaipeng Liu, Fan Yang, Guanglu Wan
HIGHLIGHT: A framework is presented to automatically construct TaskFlow from large-scale dialogues and deploy online.

412, TITLE: An Industrial Framework for Cold-Start Recommendation in Zero-Shot Scenarios
https://dl.acm.org/doi/abs/10.1145/3477495.3536332
AUTHORS: Zhaoxin Huan, Gongduo Zhang, Xiaolu Zhang, Jun Zhou, Qintong Wu, Lihong Gu, Jinjie Gu, Yong He, Yue Zhu, Linjian Mo
HIGHLIGHT: In this applied paper, we present an industrial framework recently deployed on Alipay to address the item cold-start problem in zero-shot scenarios.

413, TITLE: Unsupervised Product Offering Title Quality Scores
https://dl.acm.org/doi/abs/10.1145/3477495.3536333
AUTHORS: Henry S. Vieira
HIGHLIGHT: The focus of this work is to show how it is possible to assign a score that indicates the descriptive quality of product offers in an e-commerce marketplace environment using unsupervised methods.

414, TITLE: Learning to Rank Instant Search Results with Multiple Indices: A Case Study in Search Aggregation for Entertainment

https://dl.acm.org/doi/abs/10.1145/3477495.3536334
AUTHORS: Scott Rome, Sardar Hamidian, Richard Walsh, Kevin Foley, Ferhan Ture
HIGHLIGHT: Since results can be based on lexical matches, semantic matches, item-to-item similarity matches, or a variety of business logic driven sources, a key challenge is how to combine results into a single list. To accomplish this, we propose merging the lists via a Learning to Rank (LTR) neural model which takes into account the search query.

415, TITLE: Recent Advances in Retrieval-Augmented Text Generation
https://dl.acm.org/doi/abs/10.1145/3477495.3532682
AUTHORS: Deng Cai, Yan Wang, Lemao Liu, Shuming Shi
HIGHLIGHT: Recently retrieval-augmented text generation has achieved state-of-the-art performance in many NLP tasks and has attracted increasing attention of the NLP and IR community, this tutorial thereby aims to present recent advances in retrieval-augmented text generation comprehensively and comparatively.

416, TITLE: Retrieval and Recommendation Systems at the Crossroads of Artificial Intelligence, Ethics, and Regulation
https://dl.acm.org/doi/abs/10.1145/3477495.3532683
AUTHORS: Markus Schedl, Emilia Gómez, Elisabeth Lex
HIGHLIGHT: Retrieval and Recommendation Systems at the Crossroads of Artificial Intelligence, Ethics, and Regulation

417, TITLE: Sequential/Session-based Recommendations: Challenges, Approaches, Applications and Opportunities
https://dl.acm.org/doi/abs/10.1145/3477495.3532685
AUTHORS: Shoujin Wang, Qi Zhang, Liang Hu, Xiuzhen Zhang, Yan Wang, Charu Aggarwal
HIGHLIGHT: There is a lack of work to provide a comprehensive and systematic demonstration of the data characteristics, key challenges, most representative and state-of-the-art approaches, typical real- world applications and important future research directions in the area. This work aims to fill in these gaps so as to facilitate further research in this exciting and vibrant area.

418, TITLE: Continual Learning Dialogue Systems - Learning during Conversation
https://dl.acm.org/doi/abs/10.1145/3477495.3532677
AUTHORS: Sahisnu Mazumder, Bing Liu
HIGHLIGHT: In this tutorial, we introduce and discuss methods to give chatbots the ability to continuously and interactively learn new knowledge during conversation, i.e. "on-the-job" by themselves so that as the systems chat more and more with users, they become more and more knowledgeable and improve their performance over time.

419, TITLE: Improving Efficiency and Robustness of Transformer-based Information Retrieval Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3532681
AUTHORS: Edmon Begoli, Sudarshan Srinivasan, Maria Mahbub
HIGHLIGHT: This tutorial focuses on both theoretical and practical aspects of improving the efficiency and robustness of transformer-based approaches, so that these can be effectively used in practical, high-scale, and high-volume information retrieval (IR) scenarios.

420, TITLE: Gender Fairness in Information Retrieval Systems
https://dl.acm.org/doi/abs/10.1145/3477495.3532680
AUTHORS: Amin Bigdeli, Negar Arabzadeh, Shirin SeyedSalehi, Morteza Zihayat, Ebrahim Bagheri
HIGHLIGHT: In this tutorial, we inform the audience of various studies that have systematically reported the presence of stereotypical gender biases in Information Retrieval (IR) systems.

421, TITLE: Self-Supervised Learning for Recommender System
https://dl.acm.org/doi/abs/10.1145/3477495.3532684
AUTHORS: Chao Huang, Xiang Wang, Xiangnan He, Dawei Yin
HIGHLIGHT: In this tutorial, we aim to provide a systemic review of existing self-supervised learning frameworks and analyze the corresponding challenges for various recommendation scenarios, such as general collaborative filtering paradigm, social recommendation, sequential recommendation, and multi-behavior recommendation.

422, TITLE: What the Actual...Examining User Behaviour in Information Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3532687
AUTHORS: George Buchanan, Dana Mckay
HIGHLIGHT: In this tutorial we will address the main strategic and tactical choices for engaging with, designing and executing user studies, considering both evaluation and formative investigation.

423, TITLE: Beyond Opinion Mining: Summarizing Opinions of Customer Reviews
https://dl.acm.org/doi/abs/10.1145/3477495.3532676
AUTHORS: Reinald Kim Amplayo, Arthur Brazinskas, Yoshi Suhara, Xiaolan Wang, Bing Liu
HIGHLIGHT: In this tutorial, we present various aspects of opinion summarization that are useful for researchers and practitioners.

424, TITLE: Deep Knowledge Graph Representation Learning for Completion, Alignment, and Question Answering
https://dl.acm.org/doi/abs/10.1145/3477495.3532679
AUTHORS: Soumen Chakrabarti
HIGHLIGHT: The goal of this tutorial is to give IR researchers a thorough update on the best practices of neural KG representation and inference from AI, ML and NLP communities, and then explore how KG representation research in the IR community can be better driven by the needs of search, passage retrieval, and QA.

425, TITLE:	Conversational Information Seeking: Theory and Application
https://dl.acm.org/doi/abs/10.1145/3477495.3532678
AUTHORS:	Jeffrey Dalton, Sophie Fischer, Paul Owoicho, Filip Radlinski, Federico Rossetto, Johanne R. Trippas, Hamed Zamani
HIGHLIGHT:	This tutorial follows the content of the recent Conversational Information Seeking book authored by several of the tutorial presenters.

426, TITLE:	Towards Reproducible Machine Learning Research in Information Retrieval
https://dl.acm.org/doi/abs/10.1145/3477495.3532686
AUTHORS:	Ana Lucic, Maurits Bleeker, Maarten de Rijke, Koustuv Sinha, Sami Jullien, Robert Stojnic
HIGHLIGHT:	We propose this tutorial as a gentle introduction to help ensure reproducible research in IR, with a specific emphasis on ML aspects of IR research.