Introduction to IR groups

UIUC and U of Michigan
Zhai is one of the fastest promoting big name in IR area!

The result of Microsoft academic search, Zhai is among top 20!

Cheng-xiang Zhai
University of Illinois Urbana Champaign
Publications: 211 | Citations: 3893 | G-Index: 58 | H-Index: 31
Interests: Information Retrieval, Data Mining, Databases
88 related publication(s)

Gonzalo Navarro
Universidad de Chile
Publications: 384 | Citations: 4681 | G-Index: 57 | H-Index: 34
Interests: Algorithms & Theory, Information Retrieval, Algebra
62 related publication(s)

Ophir Frieder
Georgetown University
Interests: Information Retrieval, Networks & Communications, Databases
78 related publication(s)

Douglas W. Oard
University of Maryland
Interests: Information Retrieval, Natural Language & Speech, Social Science
81 related publication(s)
Text Information Management Group

• Language Model: (Feedback, robust retrieval, smoothing). Widely cited (e.g. Lemur) (*)
• Axiomatic Retrieval Framework (SIGIR 04 best paper)
• Personalized Search and Interactive Retrieval
• Contextual Text Mining (*)
• Web Information Retrieval and Mining (*)
• Natural Language Processing and Machine Learning (*)
Text Information Management Group

- Bioinformatics and Biomedical Literature Processing (*)
- Collaborative and Content-Based Filtering
Text Information Management Group

• Productive Group:

2011

- Dan Zhang, Chengxiang Zhai, Jiawei Han, MiTeer: Multi-Teer Cluster for Online Analysis of Text Cells, Proceedings of NAAK Conference on Intelligent Data Understanding 2011, to appear.
- Yanhui Lu, Chengxiang Zhai, Leveraging Term Frequency Normalization, Proceedings of the 16th ACM International Conference on Information and Knowledge Management (CIKM ’11), pages 7-15, 2011. (Best Student Paper Award) pdf
- Hongming Wang, Yan Lu, Chengxiang Zhai, Latest Aspect Rating Analysis without Aspect Keyword Supervision, Proceedings of the 19th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD ’11), 2011, pages 516-526 (17.9% acceptance)
- V.G. Viswanath, Chengxiang Zhai, Den Roth, Content-driven Trust Propagation Framework, Proceedings of the 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD’11), 2011, pages 974-982. (17.5% acceptance)
- Hongming Wang, Chi Wang, Chengxiang Zhai, Jiawei Han, Learning Online Discussion Structures by Conditional Random Fields, Proceedings of the 74th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR’11), 2011, pages 435-444. (10.4% acceptance)
- Yatan Li, Bo-Jen Hsu, Chengxiang Zhai, Kunseong Wang, Unsupervised Query Segmentation using Clickthrough for Information Retrieval, Proceedings of the 17th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR’11), 2011, pages 283-286. (20.6% acceptance)
- Zhile Yin, Lingfang Cao, Jinwei Han, Chengxiang Zhai, and Thomas Huang, Geographic Topic Discovery and Comparison, Proceedings of the World Wide Conference 2011 (WWW’11), pages 247-256.pdf

2010

- Yatan Li,及李, Chengxiang Zhai, Yu Chen, Improving One-Class Collaborative Filtering by Incorporating Rich User Information, Proceedings of the 16th ACM International Conference on Information and Knowledge Management (CIKM ’10), pages 999-999, 2010. (13.4% acceptance)
- Kavita Ganesan, Chengxiang Zhai, Jiawei Han, Opinosis: A Graph Based Approach to Abstractive Summarization of Highly Abusive Opinions, Proceedings of COLING 2010, pages 340-348.pdf
- Yan Lu, Hongming Duan, Hongming Wang, and Chengxiang Zhai, Exploiting Structured Ontology to Organize Scattered Online Opinions, Proceedings of COLING 2010, pages 789-792. pdf
- Pakshiraj Sundar, Manish Gupta, Chengxiang Zhai, and Julia Hockenmaier, Shallow Information Extraction from Medical Forum Data, Proceedings of COLING 2010, pages 1156-1165. pdf

The figure shows the publication in 2011! (large number and high quality)
He and his group research is mainly about web search, database and entity search
http://www-faculty.cs.uiuc.edu/~kcchang
New professor moved from UT-Austin.

Seems he has done some work on usage of temporal information in microblog search, we should pay attention.
J. Stephen Downie

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Areas of Research
Design and evaluation of IR systems, including multimedia music information retrieval; the political economy of internetworked communication systems; database design; Web-based technologies.
He is new professor in U Michigan and he graduated as Zhai’s PhD student in 2009.

His research covers many area ( web search, diversity search, personalize search, user behavior and etc ).
Their research is mainly concentrated on biological text processing, nature language processing and text summarization.