



清华大学

计算机系

Department of Computer Science and Technology, Tsinghua University

李国良

副教授

清华大学计算机科学与技术系

<http://dbgroup.cs.tsinghua.edu.cn/ligl>



地址：清华大学计算机系东主楼 10-204 室

电话：(86-10) 6278-9150

电子邮件：liguoliang@tsinghua.edu.cn

教育情况

- 2012 年 12 月-今：清华大学计算机科学与技术系数据库组**副教授**
- 2009 年 9 月-2012 年 11 月：清华大学计算机科学与技术系数据库组**助理教授**
- 2004 年 9 月-2009 年 7 月：清华大学计算机科学与技术系数据库组，获得**工学博士学位**
- 2000 年 9 月-2004 年 7 月：哈尔滨工业大学计算机科学与技术系本科，获得**工学学士学位**

主要研究方向

- ◇ 海量数据清洗与集成
- ◇ 众包中的数据处理
- ◇ 空间数据管理

获奖情况

1. 2011 全国优秀博士论文提名奖
2. 2010 北京市优秀博士论文

兼职情况

1. 程序委员会委员
 - a) VLDB: 2012, 2013
 - b) KDD: 2012, 2013
 - c) ICDE: 2012, 2013
 - d) CIKM: 2010, 2012
2. VLDB Journal, IEEE TKDE 审稿人

科研项目

项目名称	项目来源	起止时间	负责人	年度经费	本人任务
数据库的新型查询技术研究	国家自然科学基金	2011-2013	李国良	21万	负责人
网络环境下海量实时数据管理关键技术研究	自主科研	2011-2013	李国良	39万	负责人



清华大学

计算机系

Department of Computer Science and Technology, Tsinghua University

云数据一致性研究	美国IBM公司	2012	李国良	6.3万	负责人
海量数据清洗关键技术研究	信息技术实验室	2012	李国良	10万	负责人
未来新型数据管理技术趋势和挑战	华为公司	2012	李国良	12万	负责人
基于位置的广告推送	微软	2012	李国良	2.5万	负责人
普适计算环境支撑系统	863重点	2011	陈渝	25万	普适数据管理
分布式存储系统与搜索技术	企业委托	2011	陈文光	20万	智能搜索
列数据库系统	企业委托	2011	邢春晓	15万	列数据库检索
下一代搜索引擎与浏览器	核高基	2011	胡事民		地图搜索
互联网创新技术联合实验室	腾讯联合实验室	2011-2013	胡事民		移动搜索
网络可视媒体的有效搜索与服务	973子课题	2011-2015	杨士强		地图搜索
全民电子健康档案关键技术研究	自主科研	2011	李崇荣		数据安全与隐私保护
Next Search (NUS)	海外合作	2011-2015	孙茂松		位置服务

论文列表

● 期刊论文

1. **Guoliang Li**, Jianhua Feng, Chen Li. Supporting Search-As-You-Type Using SQL in Databases. **IEEE Transactions on Knowledge and Data Engineering (TKDE)**, 25(2): 461-475 (2013).
2. Jianhua Feng, Jiannan Wang, **Guoliang Li**. Trie-join: a trie-based method for efficient string similarity joins. **The VLDB Journal**, 21(4):437-461, 2012
3. **Guoliang Li**, Shengyue Ji, Chen Li, Jianhua Feng. Efficient Fuzzy Full-Text Type-Ahead Search. **The VLDB Journal**, 20(4): 617-640, 2011.
4. **Guoliang Li**, Jianhua Feng, Xiaofang Zhou, Jianyong Wang. Providing Built-in Keyword Search Capabilities in RDBMS. **The VLDB Journal**, 20(1):1-19, 2011.
5. Jianhua Feng, **Guoliang Li**: Fuzzy Type-Ahead Search in XML Data. **IEEE Transactions on Knowledge and Data Engineering (TKDE)**, 24(5):882-895, 2012.
6. **Guoliang Li**, Jianhua Feng, Jianyong Wang, Lizhu Zhou: KEMB: A Keyword-Based XML Message Broker. **IEEE Transactions on Knowledge and Data Engineering (TKDE)** 23(7):1035-1049 (2011)



7. Jianhua Feng, **Guoliang Li**, Jianyong Wang: Finding Top-k Answers in Keyword Search over Relational Databases Using Tuple Units. **IEEE Transactions on Knowledge and Data Engineering (TKDE)**23(12):1781-1794 (2011)
8. **Guoliang Li**, Jianhua Feng, Beng Chin Ooi, Jianyong Wang, and Lizhu Zhou. An effective 3-in-1 keyword search method over heterogenous data sources. **Information Systems**, Volume 36, Issue 2, Pages 248-266, 2011.
9. Jiannan Wang, Inci Cetindil, Shengyue Ji, Chen Li, Xiaohui Xie, **Guoliang Li**, and Jianhua Feng. Interactive and fuzzy search: a dynamic way to explore MEDLINE. **Bioinformatics (2010) 26(18)**: 2313-2320.
10. Jianhua Feng, **Guoliang Li**, Lizhu Zhou: Finding and Ranking Compact Connected Trees for Effective Keyword Proximity Search over XML Documents. **Information Systems**, Volume 35, Issue 2, Pages 186-203, 2010.
11. **Guoliang Li**, Jianhua Feng, Jianyong Wang, and Lizhu Zhou. Incremental sequence-based frequent query pattern mining from xml queries. **Data Mining and Knowledge Discovery**, Volume 18, Number 3, pages 472-516, 2009.
12. **Guoliang Li**, Jianhua Feng, Chen Li, Lizhu Zhou: SAIL: Structure-aware Indexing for Effective Keyword Search over XML Documents. **Information Sciences**, Volume 179, Issue 21, Pages 3745-3762, 2009.

● 会议论文

13. Dong Deng, **Guoliang Li**, Jianhua Feng: Top-k String Similarity Search with Edit-Distance Constraints. **ICDE** 2013.
14. Weihuang Huang, **Guoliang Li**, Kian-lee Tan, Jianhua Feng: Efficient Safe-Region Construction for Moving Top-K Spatial Keyword Queries. **CIKM** 2012:932-941
15. Ruicheng Zhong, Ju Fan, **Guoliang Li**, Kian-lee Tan, Lizhu Zhou: Location-Aware Instant Search. **CIKM**, 2012:385-394
16. Jiannan Wang, **Guoliang Li**, Jianhua Feng. Can We Beat The Prefix Filtering? An Adaptive Framework for Similarity Join and Search. **SIGMOD** 2012 :85-96
17. Ju Fang, **Guoliang Li**, Lizhu Zhou. SEAL: Spatio-Textual Similarity Search. **VLDB** 2012:253-264
18. **Guoliang Li**, Dong Deng, Jiannan Wang, Jianhua Feng: PASS-JOIN: A Partition-based Method for Similarity Joins. **VLDB** 5(3):253-264 (2012)
19. **Guoliang Li**, Jing Xu, Jianhua Feng: Desks: Direction-Aware Spatial Keyword Search. **ICDE**, 2012:474-485
20. **Dong Deng**, Guoliang Li, Jianhua Feng: An Efficient Trie-based Method for Approximate Entity Extraction with Edit-Distance Constraints. **ICDE**, 2012:762-773
21. Jiannan Wang, **Guoliang Li**, Jeffrey Xu Yu, Jianhua Feng: Entity Matching: How Similar Is Similar. **VLDB** 4(10):622-633 (2011)
22. **Guoliang Li**, Dong Deng, Jianhua Feng: Faerie: Efficient Filtering Algorithms for Approximate Dictionary-based Entity Extraction. **SIGMOD**, 2011:529-540.
23. Dongzhe Ma, Jianhua Feng, **Guoliang Li**: LazyFTL: A Page-level Flash Translation Layer Optimized for NAND Flash Memory. **SIGMOD**, 2011:1-12.
24. **Guoliang Li**, Ju Fan, Hao Wu, Jiannan Wang, Jianhua Feng. DBease: Making Databases User-Friendly and Easily Accessible. **CIDR**, 2011: 45-56



25. Ju Fan, **Guoliang Li**, Lizhu Zhou. Interactive SQL Query Suggestion: Making Databases User-Friendly. **ICDE**, 2011:351-362
26. Jiannan Wang, **Guoliang Li**, Jianhua Feng. Extending String Similarity Join to Allow Fuzzy Token Matching. **ICDE**, 2011:458-469
27. Jiannan Wang, **Guoliang Li**, Jianhua Feng, Trie-Join: Efficient Trie-based String Similarity Joins with Edit-Distance Constraint. **VLDB**, 2010:1219-1230
28. Hao Wu, **Guoliang Li**, Chen Li, Lizhu Zhou: Seaform: Search-As-You-Type in Forms. **VLDB**, 2010:1565-1568
29. **Guoliang Li**, Shengyue Ji, Jiannan Wang, Chen Li, Jianhua Feng. Efficient Fuzzy Type-Ahead Search in TASTIER. **ICDE 2010**:1105-1108
30. **Guoliang Li**, Jianhua Feng. Extending Dictionary-based Entity Recognition to Tolerate Errors. **CIKM**, 2010:1341-1344
31. **Guoliang Li**, Shengyue Ji, Chen Li, Jianhua Feng. Efficient Type-Ahead Search on Relational Data: a TASTIER Approach. **SIGMOD 2009**:695-706.
32. **Guoliang Li**, Jianhua Feng, Lizhu Zhou. Interactive Search in XML Data. **WWW 2009**:1063-1064.
33. Shengyue Ji, **Guoliang Li**, Chen Li, Jianhua Feng. Effective Fuzzy Interactive Search. **WWW 2009**: 371-380.
34. Mei Hui, **Guoliang Li**, Yuan Zhou, Dawei Jiang. Supporting Database Applications as a Service. **ICDE**, 2009:832-843.
35. **Guoliang Li**, Xiaofang Zhou, Jianhua Feng, Jianyong Wang. Progressive Top-k Keyword Search in Relational Database. **ICDE**, 2009:1183-1186.
36. **Guoliang Li**, Jianhua Feng, Jianyong Wang: Structure-aware indexing for keyword search in databases. **CIKM 2009**:1453-1456
37. Jiannan Wang, **Guoliang Li**, Jianhua Feng: Automatic URL completion and prediction using fuzzy type-ahead search. **SIGIR 2009**:634-635
38. **Guoliang Li**, Jianhua Feng, Jianyong Wang, Lizhu Zhou. An Effective and Versatile Keyword Search Engine on Heterogeneous Data Sources. **VLDB**, 2008:1452-1455.
39. **Guoliang Li**, Beng Chin Ooi, Jianhua Feng, Jianyong Wang, Lizhu Zhou: EASE: an effective 3-in-1 keyword search method for unstructured, semi-structured and structured data. **SIGMOD 2008**: 903-914.
40. **Guoliang Li**, Jianhua Feng, Jianyong Wang, Xiaoming Song, Lizhu Zhou: Sailer: an effective search engine for unified retrieval of heterogeneous xml and web documents. **WWW 2008**: 1061-1062.
41. **Guoliang Li**, Jianhua Feng, Jianyong Wang, Lizhu Zhou: Effective keyword search for valuable links over xml documents. **ACM CIKM 2007**: 31-40
42. Beng Chin Ooi, Bei Yu, **Guoliang Li**: One table stores all: Enabling painless free-and-easy data publishing and sharing. **CIDR 2007**: 142-153.
43. Bei Yu, **Guoliang Li**, Karen R. Sollins, Anthony K. H. Tung: Effective keyword-based selection of relational databases. **SIGMOD 2007**: 139-150.
44. **Guoliang Li**, Jianhua Feng, Jianyong Wang, Yong Zhang, Lizhu Zhou: Incremental Mining of Frequent Query Patterns from XML Queries for Caching. **ICDM 2006**: 350-361.