

KEYS 2009

First International Workshop on Keyword Search on Structured Data

June 28, 2009, Providence, Rhode Island, USA

<http://keys09.asu.edu>

AIMS & TOPICS OF INTEREST

Information search is an indispensable component of our lives. Web search engines are widely used for searching textual documents, images, and video. However, there are also vast collections of structured and semi-structured data both on the Web and in enterprises, such as relational databases, XML data, etc. Traditionally, to access these resources, a user must learn structured or semi-structured query languages, and must be able to access data schemas, which are most likely heterogeneous, complex, and fast-evolving. To relieve web and scientific users from the learning curve and enable them to easily access structured and semi-structured data, there is a growing research interest to support keyword search on these data sources.

The aim of this workshop is to encourage researchers from both academia and industry communities to discuss the opportunities and challenges in keyword search on (semi-)structured data, and to present the key issues and novel techniques in this area. We invite researchers and practitioners working in relational databases, data warehouses, XML, information extraction, natural language processing, probabilistic databases, and related areas to attend this workshop. The main topics include but are not limited to:

- Keyword search on relational databases and data warehouses
- Keyword search on XML data
- Keyword search on extracted data from text documents
- Keyword on other data structures (e.g. workflows, annotated images)
- Keyword search on data streams and continuous monitoring systems
- Ranking schemes
- Top-K query processing
- Result snippet generation
- Result clustering
- Query cleaning
- User preferences and feedback
- Handling data uncertainty in keyword search
- Search quality evaluation
- Performance optimization

REGISTRATION

Registration for KEYS 2009 is done via the SIGMOD/PODS 2009 conference registration web site (<https://regmaster2.com/cgi-bin/MOD09/on1/RMSs.cgi>).

KEYNOTE TALKS

Structured Data and Web Documents: Better Together?

Surajit Chaudhuri (Microsoft Research)

Querying Text Databases and the Web: Beyond Traditional Keyword Search

Luis Gravano (Columbia University)

ACCEPTED PAPERS

- Research Papers

Do We Mean the Same? Disambiguation of Extracted Keyword Queries for Database Search

Elena Demidova, Irina Oelze, Peter Fankhauser (L3S Research Center)

Keyword Query Cleaning using Hidden Markov Models

Ken Q Pu (University of Ontario Inst. of Technology)

Efficient Top-k Algorithms for Fuzzy Search in String Collections

Rares Vernica, Chen Li (University of California, Irvine)

Hierarchical Result Views for Keyword Queries over Relational Databases

Shiyuan Wang (UC Santa Barbara), Junichi Tatemura, Arsany Sawires, Oliver Po (NEC Laboratories America), Divyakant Agrawal, Amr El Abbadi (UC Santa Barbara)

Query Segmentation Using Conditional Random Fields

Xiaohui Yu and Huxia Shi (York University)

A First Study on Strategies for Generating Workflow Snippets

Tommy Ellkvist, Lena Strömbäck (Linköping University), Lauro Didier Lins, Juliana Freire (University of Utah)

- Demos and Posters

Building Search Applications with MarkLogic Server (Invited Demo)

Ron Avnur (Mark Logic Corporation)

Language-Model-Based Ranking in Entity-Relation Graphs

Shady Elbassuoni, Maya Ramanath, Gerhard Weikum (Max-Planck Institute for Informatics)

Generic and Effective Semi-structured Keyword Search

Arash Termehchy, Marianne Winslett (University of Illinois, Urbana)

XML Keyword Query Refinement

Jiaheng Lu, Zhifeng Bao (National University of Singapore), Tok Wang Ling, Xiaofeng Meng (Renmin University of China)

DBDOC: Querying and Browsing Interrelated Documents in SQL

Carlos Garcia-Alvarado, Carlos Ordonez, Zhibo Chen (University of Houston)