

****** CALL FOR PAPERS ******

LSDS-IR 2010

<http://www.lsd sir.org>

8th International Workshop on

Large-Scale Distributed Systems for Information Retrieval

Friday, July 23, 2010

University of Geneva, Switzerland

Co-located with ACM SIGIR 2010 (<http://sigir2010.org>)

AIMS & TOPICS OF INTEREST:

The Web is estimated to contain at least 21 billion Web pages as of January 2010. In parallel to the growth of the Web, the population of Web users has also rapidly increased, and the patterns of interaction of those users with search engines have changed. Today, the main research challenge is to scale large-scale search engines with the growth of the Web, without sacrificing from user satisfaction.

Traditionally, large-scale commercial search engines operate on one or more data centers, each containing multiple, very large clusters of computers. Coping with the increasing number of user requests as well as crawling and indexing more pages requires adding more computational resources to data centers. There are, however, constraints in the scalability of such systems, such as financial costs and physical space constraints. Consequently, distributing the functionality of a search engine along with improving the utilization of resources in a single data center becomes of ultimate importance to the success of future generations of search systems.

Distributed search engines do not only solve the scalability issue, but they enable new classes of applications that leverage the distribution of processing units across a geographical area. As another facet of distributed IR, we are interested in contributions that propose different ways of using diversity and multiplicity of resources available in such distributed systems. More specifically, we are interested in novel applications, models, and architectures that deal with efficiency and scalability issues as well as data diversity and community-oriented information sharing.

This workshop aims to bring together both experienced and young researchers from distributed IR, including work on P2P search and efficiency of distributed systems for information processing. This edition of the workshop will favor novel, perhaps even outrageous ideas as opposed to finished research work, thus strongly encouraging the submission of position papers in addition to research papers. Position papers are important to foster discussion upon controversial and intriguing ideas on new ways of building distributed infrastructures for information processing.

We thus encourage submissions of position papers in the area of distributed IR, and we will also accept research papers which have the potential to generate discussion. Topics of interest will include, but will not be limited to:

- * Novel distributed IR applications
- * Web search in the cloud: application of cloud computing to IR
- * IR algorithms on novel computing architectures
- * Efficiency and scalability in distributed query processing
- * Geographically distributed search engines
- * Inverted index partitioning and replication models (with applications to distributed ranking)
- * Collection selection and result merging in federated IR
- * Distributed Web crawling
- * Distributed indexing and retrieval of dynamic information sources
- * Search engine caching in large scale systems
- * Resource selection and query routing in distributed environments
- * Heterogeneous distributed data integration and organization
- * Retrieval models for distributed IR Standards and benchmarks for distributed IR

The authors presenting the most innovative paper will receive the "Best Idea Award", according to the originality and feasibility of their contribution.

IMPORTANT DATES

Paper submission deadline: May 22, 2010

Notification of acceptance: June 25, 2010 Camera ready deadline: July 5, 2010 Workshop date: July 23, 2010

SUBMISSION INSTRUCTIONS

The workshop will accept regular papers and encourages the submission of position papers as well. Papers should not exceed 5 pages (can be extended up to 6 pages for regular papers if needed), double column, including figures, tables and references in the standard ACM conference format (<http://www.acm.org/sigs/publications/proceedings-templates>). Position papers must rise interesting ideas and intriguing new topics, and they do not need to include experiments and definitive achievements. Papers have to present original research contributions not concurrently submitted elsewhere, and must be submitted electronically in printable PDF format. Authors should include a sub-title explicitly identifying their submission as a regular or a position paper. Submitted papers will undergo a peer review process by at least three members of the program committee. The review process is single-blind. At least one author of an accepted paper must register for the workshop.

As for past editions of the workshop, the workshop chairs will consider the opportunity to organize a special issue in an international journal with extended versions of best papers.

Submission Web site: <https://cmt.research.microsoft.com/LSDSIR2010>.

WORKSHOP CHAIRS

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