

# Suite 2010

2nd Intl. Workshop on Search-driven development: Users, Infrastructure, Tools and Evaluation.  
Co-located with 32st International Conference on Software Engineering (ICSE 2010).  
Cape Town, South Africa, May 1st, 2010.

## Motivation and Goals

As software development is a process of both information creation and information gathering, software developers are constantly searching for the pertinent information to solve their problems at hand. The information needs of software developers range from those related to code (writing, changing, fixing, communicating code) to process (design) and people (colleagues). The general theme of the workshop is to understand and find solutions for various information needs of software developers. The workshop seeks contributions that address core technical issues as well as more human aspects of this problem. The goal of the workshop is to identify the search-driven nature of software development as a key research topic. Participants will have broad range of expertise in topics such as: program analysis, building software tools and infrastructure, information retrieval, user studies and HCI, benchmarking and evaluation.

## Search-driven Software Development

The workshop is concerned with all aspects of the search experience of software developers. Search-driven development involves a broad range of activities and topics, including but are not limited to:

- Approaches and tools to search software artifacts.
- Approaches to search for developer expertise.
- Behavioral and executable specifications (e.g. unit tests) as queries for automated search and reuse.
- Crawling and parsing of internet-scale repositories.
- Empirical studies of search and navigation in software development.
- Experience reports on setting up and running large software search engines.
- Information retrieval techniques and machine learning approaches to search software.
- Integration of search engines with IDEs.
- Just in time comprehension tools for developers.
- Leveraging Web 2.0 and social networking techniques for developer's information needs.
- Methods of integrating indexed data from various sources and histories.
- Natural language processing to support software development.
- Novel argumentation models for searching in software message boards and email archives.
- Pragmatic reuse of components, i.e. through code transformation rather than via frameworks.
- Programming by example.
- Program analysis techniques. For example, automatic extraction of API usage patterns.
- Query languages for software search.
- Ranking strategies and heuristics for code search.
- Searching aids for debugging and profiling.
- Searching the computation space, i.e. runtime object graph / memory.
- Slicing and generative techniques for search results extraction and synthesis.
- Standards and benchmarks for the evaluation of search tools.
- Suitability and Trustability of search results.
- The use of visualizations in software search.
- Understanding information needs of software developers.

We are looking forward to exciting and stimulating discussions from:

- Researchers with interest in enhancing search technology for developers.
- Tool builders that want to improve the search experience of developers.
- HCI Researchers with interest in better understanding of the search needs of developers.
- Search-engine providers from the industry targeting the needs of developers in industry.

## Submission Guidelines

**Be electronic.** Submit your position paper in PDF, using the workshop's Cyberchair website, so that we can collect and publish all of the submissions on the web-site. Accepted submissions will be included in the ACM digital library. Submissions should be made in the ACM Proceedings format. Please follow the style guidelines as prescribed by ICSE, also detailed in the ACM web page.

**Be short.** Please keep all position papers under four pages.

**Be innovative.** It is okay to propose a recent idea that still has some unfinished sides to it. It is supposed to be a workshop, not a mini-conference.

**Be a rebel.** Neglect these guidelines if you feel that your idea needs a special treatment in some way.

→ Please visit <http://scg.unibe.ch/wiki/events/suite2010/cfp> for more information.



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## Important Dates

- Submissions: Wed, Jan 19, 2010
- Notification: Wed, Feb 17, 2010
- Workshop: Sat, May 1, 2010

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