Call for Papers

Sixth International Workshop on Software Clones
(IWSC 2012)

Applying Clone Technology to Industry

Monday, June 4, 2012, Zurich, Switzerland
In Conjunction with ICSE'12
http://iwsc2012.ist.osaka-u.ac.jp/

Software clones are identical or similar pieces of code, design or other artifacts. Clones are known to be closely related to various issues in software engineering, such as software quality, complexity, architecture, refactoring, evolution, licensing, plagiarism, and so on. Various characteristics of software systems can be uncovered through clone analysis, and system restructuring can be performed by merging clones.

The purpose of this workshop is to continue to solidify and give shape to this research area and community. More specifically, the goals are to bring together researchers and practitioners from around the world to evaluate the current state of research and applications, discuss common problems, discover new opportunities for collaboration, exchange ideas, envision new areas of research and applications, and explore synergies with similarity analysis in other areas and disciplines.

Topics of interest include, but are not limited to:

- Definition of software clones
- Types, distribution, and nature of clones in software systems
- Causes and effects of clones
- Techniques and algorithms for clone detection, analysis, and management
- Clones and clone patterns visualization
- Tools and systems for detecting and analyzing software clones
- Applications of clone analysis
- Clone management
- System architecture and clone
- Effect of clones to system complexity and quality
- Clone analysis in families of similar systems
- Industrial experiences with clone analysis
- Measures of code similarity
- Economic and trade-off models for clone removal
- Evaluation and benchmarking of clone detection methods
- Licensing and plagiarism issues
- Clone-aware software design and development
- Refactoring through clone analysis
- Higher-level clones in models and designs
- Clone evolution and variation
- Role of clones in software system evolution

Industrial use of clone technology is emerging, so in this workshop, we will particularly focus on applications of clone detection and analysis.

Both full research and experience papers limited to 7 pages and short position papers limited to 2 pages are sought. Submissions must adhere to the IEEE two-column proceedings format: http://www.ifi.uzh.ch/icse2012/how-to-submit/

Full 7-page papers are expected to present novel research ideas and open issues, significant experiences or empirical studies, or important viewpoints on the field. Short 2-page position papers

are those designed to raise new ideas and issues for which the research is not yet ready for a full paper, or to introduce a tool demonstration. Position papers should emphasize originality and potential to stimulate active discussion at the workshop, or alternatively introduce a relevant practical tool to be demonstrated. A tool demonstration session will be organized if there are enough tools submitted.

Both kinds of papers will be formally reviewed by at least three members of the workshop program committee. They must be relevant to the goals of the workshop and hold the potential for lively discussion and debate.

Accepted papers will be published in the workshop proceedings as part of the ICSE Companion Volume. Their authors will be invited to present their work during the workshop as a formal presentation and take part in an open panel discussion of the topics and issues raised.

Submissions should be uploaded online to the workshop's submission web site: http://www.easychair.org/conferences/?conf=iwsc2012

Important Dates:

Paper submissions	February 24, 2012
Notification to authors	March 19, 2012
Camera-ready copies	March 29, 2012
Workshop	June 4, 2012

Organizing Committee:

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James R. Cordy	Queen's University, Canada
Rainer Koschke	University of Bremen, Germany

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