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Call for Papers

1st International Workshop on Refactoring (IWoR 2016)

September 4, 2016 | Singapore, Singapore

to be held in conjunction with the
The 31st IEEE/ACM Automated Software Engineering Conference (ASE 2016)

Successful software products evolve through a process of continuous changes as bugs are fixed, new features added, and quality issues addressed. Refactoring supports the volatile software lifecycle by providing better ways to reduce and manage the growing complexity of software systems while improving developer productivity. Refactoring can be performed at all levels from requirement specification down to source code level, and, in essence, involves improving the internal structure of a software artefact without altering its functionality. In spite of the popularity of refactoring both in practice and as a research topic, many open questions remain, particularly in terms of understanding how refactoring is performed, measuring the impact of refactoring, and improving tool support in all areas of refactoring.

We invite submissions from both academia and industry on any topic that is refactoring related, including, but not limited to:

- Source code refactoring
- Requirement, design and architectural refactoring
- Refactoring opportunities detection and recommendation
- Tool support for refactoring
- Mining refactoring changes from software repositories
- Evaluation and benchmarking of refactoring methods
- Refactoring for Model Driven Engineering
- Code smell detection and correction
- Search based refactoring
- Effect of refactoring on system complexity and quality

- Empirical studies and experience reports
- Software remodularization
- Model transformation
- Introduction of design patterns through refactoring
- Machine learning applied to software refactoring
- Role of refactoring in evolution and migration
- Refactoring of mobile, web and cloud applications
- Refactoring in the software lifecycle
- Refactoring and testing
- Search-based Refactoring

Submission

We solicit novel papers related to the main topics of the workshop. Papers should be one of the following types:
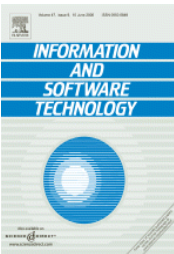
- Research paper (must not exceed 8 pages)
- Position paper (must not exceed 4 pages)
- Tool demo paper (must not exceed 4 pages)
- Industry presentations (2 pages overview)

Papers should be submitted through Easychair as PDF files in standard ACM formatting guidelines (Latex, Word).

Each paper will be reviewed by at least three referees.

Proceedings and Special Issue

Papers accepted for the workshop will be published in the ACM digital library.

A selection of the **best papers** will be invited to submit extended versions for tentative publication in a Special Issue of the journal of Information and Software Technology published by Elsevier (Journal website: http://www.elsevier.com/locate/infsof)