1 Introduction

The International Workshop Series on Comparison and Versioning of Software Models (CVSM) brings together researchers and practitioners in the field of model versioning. It aims at collecting and consolidating experience gained in this technology, at distinguishing unresolved from solved questions, at identifying reasons why questions have remained unsolved, and at identifying new technical challenges which emerged after first practical applications. The goal of this year’s issue is to initiate a joint effort of the community to identify scientific problems and commercial use cases which enable different approaches to be compared with respect to coverage of requirements, performance or tool integration issues. To this end we want to establish a widely accepted community-based benchmark set.

While several qualitative comparisons and assessments of the known approaches have been published, these assessments rely only on a functional analysis of the basic algorithms. There are virtually no comparisons which address non-functional properties. Empirical evaluations have been conducted so far mostly by suppliers of the technologies, typically using a small set of use cases and data sets. They cannot be reproduced or repeated with competing approaches. There are no standard benchmarks, challenges, test cases, or contests which enable different approaches to be assessed on a common basis. Such standard benchmarks can only be defined by the community as a whole; benchmarks which are not accepted by a community are useless. This workshop aims at initiating such a community process and at identifying an initial set of benchmarks.

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2 Submission Details

We invite submissions of three types of benchmarks, performance benchmarks, challenges and use cases.

2.1 Performance Benchmarks

Performance benchmarks are intended to be used to measure the runtime of different algorithms and compare the different runtimes of the approaches. Since the focus lies mostly on the time needed to calculate results and not on quality aspects, they usually consists of several large models.

2.2 Challenges

Challenges are usually small, artificially created models which can be used to highlight certain quality aspects of algorithms. Challenges usually pose problems to one or more of the state-of-the-art algorithms. A set of challenges can be used to identify implicit or explicit constraints that exist for the algorithms. Furthermore it helps to evaluate whether an algorithm is a good choice in a given application context.

2.3 Real Use-Cases

Thus type of benchmark may or may not pose problems for existing algorithms, but they all must stem from real-world application scenarios and projects. Real Use-Cases should help to assess the usefulness of known algorithms in the context of real world application scenarios or trigger research into new, better fitting algorithms.

2.4 Format

A Submission must consist of a paper describing the benchmark. The paper should not exceed 6 pages in the one-column LNI format and must be in English. The following points should be addressed:

- A textual and if possible a visual description of the benchmark.
- Information on how the benchmark was created, including the tools and meta-model used, information of the system environment, etc.
- The type of benchmark to which the benchmark belongs.
• Why this benchmark is of relevance for the community.
• How the benchmarks should be part of the community benchmark set.
• A link to a download location for the benchmark.

Deadline for submissions is February 14, 2013. Submissions are handled electronically via EasyChair: http://www.easychair.org/conferences/?conf=cvsm2013. This page contains further instructions. All submissions will be made available on the workshop website (http://pi.informatik.uni-siegen.de/CVSM2013/).

Authors will get a time slot on the workshop day to present their proposal and to answer questions. Submissions will be discussed and evaluated by all participants of the workshop. Based on these evaluations, the workshop will decide which benchmarks to include in the initial version of community benchmark set.

3 Important Dates

2013-01-21 End of Early Bird Rates for the Workshop
2013-02-14 Submission Deadline
2013-02-27 Workshop

4 Organizers

Udo Kelter, Universität Siegen
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Jan Oliver Ringert, RWTH Aachen

5 Program Committee

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