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2nd Newsletter (September 2006 – May 2007)

Validation of Metrics-Based Quality Control

Overview

Audience:

ARiSA, Project partners (Combitech, Alstom, Windh, Artisan), KK-foundation

Participants

ARiSA: Rüdiger Lincke, Welf Löwe
Alstom: Per Ranstad
Artisan: Slavica Stjepanovic, Sören Strömberg
Combitech: Jan Törnkvist, (Kjell Karlsson), Andreas Nilsson
Windh: Emil Eifrem

Purpose

Inform about activities in past period

Period

September 2006 – May 2007

Activities

The following activities and events can be reported for the specified period.

September 2006 – May 2007

1. **First Contact Analysis of RANDIS.**

RANDIS was submitted by Combitech. It has been analyzed as part of a First Contact Analysis. The analysis results are currently evaluated by Combitech. Their feedback will result in more specific analysis in a next step.

2. **New scientific paper.**

The foundations for our unambiguous metric description framework have been documented in a scientific paper under the title: Foundations for Defining Software Metrics. It has been submitted to the 3rd International Workshop on Metamodels, Schemas, Grammars, and Ontologies for Reverse Engineering (ATEM), Genoa, Italy, 1st Oktober, 2006. It is available at: <http://www.arisa.se/files/LL-06b.pdf>

3. **Presentation of paper.**

Our scientific paper was accepted for publication and has been presented at atem 2006. The paper has been discussed and we got some good feedback.

4. **New journal paper.**

Our scientific paper presented at the ICSM2006 was selected as one of the best papers to be extended as a Journal article, which will be published in the IEEE Transactions of Software Engineering 2007, later this year. We are currently in the process of refining the existing version.

5. **Licentiate Thesis.**

We documented and published our current project results describing the technical and scientific foundations for the experiments we want to conduct in the frame of this project as

well as two case studies in form of a licentiate thesis. The thesis was presented and successfully defended the 25th of April, at the Växjö University. A hard copy of the thesis has been sent to all project partners.

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6. Randis as kick-off project.
Combitech submitted its project RANDIS to ARiSA as first project to be analyzed. The analysis of this project is currently being prepared.
7. New scientific paper
Our project (outline and goals) has been documented in a scientific paper under the title: Validation of a Standard- and Metric-Based Software Quality Model. It has been submitted to the 10th ECOOP Workshop on Quantitative Approaches in Object-Oriented Software Engineering (QAOOSE2006). It is available for download at: <http://www.arisa.se/files/LL-06.pdf>
8. Presentation of paper
Our scientific paper was accepted for publication and has been presented at QAOOSE2006. The paper has been discussed and we got some good feedback, as well as a contact with a French company being interested in our experiment.
9. New scientific paper
To facilitate our research we need a meta-model as foundation of our analysis. We described this meta-model in a scientific paper with the title: An Extensible Meta-Model for Program Analysis. It has been submitted to the 22nd IEEE International Conference on Software Maintenance (ICSM2006). It is available for download at: <http://www.arisa.se/files/SLLL-06.pdf>
10. Presentation of paper
Our scientific paper was accepted for publication and will be presented end of the month at ICSM2006.
11. A more detailed project plan covering the current year has been created.
12. A communication plan has been created.
13. The project agreement has been signed by all parties and was submitted to KK-Foundation.
14. A Project Kick-off workshop with Alstom took place.
15. The project, its partners and the activities are documented on our homepage:
http://www.arisa.se/index_projects.html