



School of
Mathematics and Systems Engineering
Computer Science Department

Prof. Dr. Welf Löwe

Postal: Växjö University
S-351-95 Växjö,
Sweden

Phone: +46 470 70-8495
E-mail: Welf.Lowe@msi.vxu.se
Web: <http://www.msi.vxu.se/~wlo>

Call for Participation

Workshop on Software Quality

19 August 2005
Växjö University, Växjö

Goals

This workshop presents the state-of-the-art and benefits of software quality assessment and discusses research directions for further improvements. Goal of the workshop is to develop an applied research project in software quality assessment with both scientific quality and industrial relevance. This project will then be proposed to the KK-foundation in September 2005 as a relaunch of an application from 2004.

Motivation and Background

Software maintenance is expensive today. Cost estimations of resources and time range from 50% to 80% of the total costs of ownership of a piece of software. It seems to be obvious that high internal software quality can reduce these costs considerably. This hypothesis, however, is not validated scientifically in industrial settings, which will be the basis for the research questions in the applied research project. Such a validation requires an implementation of software quality methods suiting real-world development process. Getting manpower and technical support in this development work is the prospected benefit of the applied research project for participating companies.

Currently, we research how to assess, assure and improve software quality during the development of new software systems and in the maintenance of legacy systems. Tools and processes are available and even an ISO standard is defined. Methods, tools, and processes are already applied and there is a proof of concepts in controlled settings.

Registration

Please confirm your participation by sending an e-mail to Rüdiger Lincke,
rudiger.lincke@msi.vxu.se.

- Final registration date: 12 August 2005.
- Workshop fee: **2000 SEK**
Companies that contributed to our research project applications EU – OSCAR and KK stiftelsen – Quality Control in Software, i.e. AerotechTelub, Alstom Power Sweden, Artison Global Media, IST, and Windh, may send up to three participants **without any costs**.
- Maximum number of participants: 20.

Organizers

Prof. Dr. Welf Löwe, Växjö University
Rüdiger Lincke, Växjö University

Agenda

9.00h	Breakfast
9.15h	<p>Opening remarks Speaker: Welf Löwe</p> <p>Outlining the motivation for and goals of this workshop and the goals and frame of the project this workshop is to develop.</p>
9.30h	<p>Overview about current status in Software Quality assessment Speaker: Welf Löwe</p> <p>Presentation of state-of-the-art in Software Quality assessment using ISO standards (ISO9126), general quality models, and current tool support and its use in forward engineering and maintenance. Emphasizing of the improvement potential of the current solutions.</p> <p>Discussion with participants.</p>
10.30h	Coffee break
10.45h	<p>Introduction to our flexible Software Quality assessment Speaker: Rüdiger Lincke</p> <p>Presentation of our approach and a relation to existing standards. Presentation of currently available metrics, their relation to ISO standards and the expressiveness potential of these metrics (Software Quality Matrix). Outlining a framework, which would unite these metrics and allow for easy adaptation of new metrics. Explanation and presentation of the current status of the VizzAnalyzer framework and how it supports our approach.</p> <p>Discussion with participants.</p>
11.45h	Coffee break
12.00h	<p>VizzAnalyzer demonstration Speaker: Rüdiger Lincke</p> <p>Demonstration of the application of our flexible approach and the VizzAnalyzer framework in a concrete case.</p>
13.00h	Lunch buffet
14.30h	<p>Project Proposal Speaker: Welf Löwe</p> <p>Lessons learned from the previous application. Explanation of how a participation in this project would look like and of the next steps, including the application at the KK-foundation.</p>
15.00h	<p>Closing session</p> <p>Summary of the workshop and project goals and project discussion.</p>