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Testing of Component-Based Systems and Software Quality

Net.ObjectDays Workshops on Testing of Component-Based Systems (TECOS 2004) and Software Quality (SOQUA 2004)

in Erfurt, Germany
September 30, 2004

Gesellschaft für Informatik 2004
Preface

Quality is generally an important issue in the development of products. Various methods and techniques have been developed to ensure high quality. One of these methods is the use of components. Prefabricated components can also be used in the development of software systems. Even though they can contribute to a quality increase, they do not obviate quality management. Therefore, testing of component-based systems still plays an important role. Testing can also be considered for other types of systems. Additionally, various types of tests can also be considered, such as robustness and performance tests. However, what information does a test yield? That depends on the quality of the test. Metrics, therefore, must not be forgotten, which can be applied to test suites as well as software. And in the case tests cannot be applied, static quality assurance methods such as inspections may be used. When problems have been detected through tests or inspections, these may lead to refactorings which also need assistance.

These important topics have been addressed by two satellite workshops of the Net.Object-Days 2004 in Erfurt, namely the Workshop Testing Component-Based Systems (TECOS 2004) and the First International Workshop on Software Quality (SOQUA 2004). These workshops took place on September 30, 2004.

There have been 21 high quality contributions to TECOS 2004 and 17 high quality contributions to SOQUA 2004 from all over the world. The international program committees selected 8 papers for presentation at each workshop.

The workshop organizers want to thank the organizers of the Net.ObjectDays 2004 for their support. In the first place, we thank Prof. Unland, the chair of the organization committee of the Net.ObjectDays 2004, who actively supported both workshops. Furthermore, we want to express our gratitude to tranSIT GmbH, Ilmenau for the perfect organization of the event. Finally, thanks go to the members of the program committees and all contributors without whom those inspiring workshops would not have been possible.

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