



AST 2010
Fifth International Workshop on Automation of Software Test
<http://www.cs.allegheeny.edu/ast2010>

CALL FOR PARTICIPATION

Special Theme Charette Discussion: Integration Testing
Special Session: Business and Industrial Case Studies

Cape Town, South Africa, 3–4 May 2010

part of ACM/IEEE ICSE 2010 (<http://www.sbs.co.za/ICSE2010/>)

Early registration

Until 28 February 2010

Late and Onsite Registration

After 28 February 2010

Workshop dates

3–4 May 2010

Workshop Co-Chairs

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*Please see the workshop website
for more details and the workshop
Program Committee.*

In software development practice, testing often accounts for as much as 50% of the total development effort. It is therefore imperative to reduce the cost and improve the effectiveness of software testing by automating the testing process. In the past decades, a substantial amount of research effort has been invested into the development and study of automatic test case generation, automatic test oracles, and other (semi-)automated testing techniques. As the theory and practice of software testing becomes more mature, a deeper and more meaningful automation of the testing process is possible. Therefore, the automation of various testing activities is now becoming an integral part of industrial practice. In response to and in support of these exciting developments, the 5th Workshop on the Automation of Software Test provides a publication forum that bridges the gap between the theory and practice of automated testing.

PROGRAM

The workshop is the successor of the first four AST workshops held at the *International Conference on Software Engineering* from 2006 to 2009. It provides researchers and practitioners a forum for exchanging ideas and experiences, developing an understanding of the fundamental challenges, articulating a vision for the future, and finding promising solutions to pressing problems. It aims at bridging the gap between theory and practice in order to improve the current state of practice and to foster innovative research in the area. The workshop also provided a platform for researchers and developers of testing tools to work together in an attempt to identify the problems in the theory and practice of software test automation and to lay the foundation for future development. The workshop accepted contributions of four different types: research papers, case study papers, case study presentations, and posters.

Research papers will report on original research and practical experience. Selected papers will cover the following area of software test automation:

- Model-based testing
- Coverage-based testing
- Performing testing
- Test oracles
- Test case generation
- Test plan generation
- Debugging

The case study session will report on the practical application of software test automation. Selected case study contributions will provide practical and generalizable insights

into how to apply and extend existing approaches to automated software testing. Accepted posters will describe late breaking results or works in progress. The final program will be available at the workshop website <http://www.cs.allegheeny.edu/ast2010/>.

CHARETTE: INTEGRATION TESTING

The AST 2010 workshop will run a multi-day charette that considered the most immediate challenges in the field of integration testing. The charette session has two purposes: stimulating near-term research and fostering group discussion and cooperation among participants. The charette shall identify the key aspects of automated integration testing that are worth research efforts in the near future. The conference organizers will ask participants to envision approaches that address these aspects and formed potential collaborations in order to solve the identified problems more effectively.

KEYNOTES

The keynote speakers of this year are Willem Visser and Steve Quam.

Willem Visser is currently a Full Professor of Computer Science and Head of the Computer Science Division at Stellenbosch University in South Africa. Willem has held positions at the Research Institute for Advanced Computer Science (RIACS) where he conducted collaborative work with the Robust Software Engineering group at the NASA Ames Research Center.

Steve Quam is the Vice President of Engineering for Imaging Systems and Recording Systems in the Angiography Division of Siemens Medical Solutions. He has over 20 years experience leading various technical disciplines in the Defense and Medical industries. Steve has experience in Process Improvement, Software Off-shoring, and Project Management. He helped lead the first Siemens Medical to group to achieve CMM level 4, and has also helped lead another organization to CMMi level 3.

REGISTRATION

The early conference registration is already open and provides substantial savings in comparison to registrations on the day. There are also tailored participant packages as much as possible to suit your varying needs and project purses. To register online please visit the registration page on the conference website

<http://www.sbs.co.za/ICSE2010/registration/register.html>.

The website also contains a page listing the registration fees, where you can review prices and rates.