





## **Paper Session 4 - PhD Papers**

Test Effort Estimation Models Based on Test Specifications.....	67
<i>Eduardo Aranha and Paulo Borba</i>	
On Test Data Generation of Object-Oriented Software .....	72
<i>Andrea Arcuri and Xin Yao</i>	
Automatic Test-Data Generation: An Immunological Approach .....	77
<i>Konstantinos Liaskos and Marc Roper</i>	
How Good are Your Testers? An Assessment of Testing Ability .....	82
<i>Liang Huang, Chris Thomson, and Mike Holcombe</i>	

## **Paper Session 5 - Fault Localisation and Prediction**

On the Accuracy of Spectrum-Based Fault Localization.....	89
<i>Rui Abreu, Peter Zoetewij, and Arjan J.C. van Gemund</i>	
Software Fault Prediction Using Language Processing .....	99
<i>David Binkley, Henry Feild, Dawn Lawrie, and Maurizio Pighin</i>	

## **Paper Session 6 - Constraint-Based Testing and Constraint Solving**

Modelling Dynamic Memory Management in Constraint-Based Testing .....	111
<i>Florence Charretre, Bernard Botella, and Arnaud Gotlieb</i>	
Exploiting Constraint Solving History to Construct Interaction Test Suites .....	121
<i>Myra B. Cohen, Matthew B. Dwyer, and Jiangfan Shi</i>	

## **Posters**

Opportunities in System Testing .....	133
<i>Arun Bahulkar and Rahul Kelkar</i>	
Tabular Expression-Based Testing Strategies: A Comparison .....	134
<i>Xin Feng, David Lorge Parnas, and T.H. Tse</i>	
A Case for GUI Testing Using Symbolic Execution .....	135
<i>Svetoslav Ganov, Sarfraz Khurshid, and Dewayne Perry</i>	
Testing of Changing Requirement in an Agile Environment—A Case Study of Telecom Project .....	136
<i>Dipak S. Pagrut</i>	
A Case for White-Box Testing Using Declarative Specifications .....	137
<i>Danhua Shao, Sarfraz Khurshid, and Dewayne E. Perry</i>	
Lazy Systematic Testing: JWalk versus JUnit .....	138
<i>Anthony J. H. Simons and Christopher D. Thomson</i>	



Comparative Assessment of Testing and Model Checking Using Program Mutation..... 210  
*Jeremy S. Bradbury, James R. Cordy, and Juergen Dingel*

**Paper Session 4 – Mutation for Security Testing**

Lightweight State Based Mutation Testing for Security ..... 223  
*Songtao Zhang, Thomas Dean, and Scott Knight*

Mutation Analysis for Security Tests Qualification ..... 233  
*Tejeddine Mouelhi, Yves Le Traon, and Benoit Baudry*

**Author Index ..... 243**