

The First International Workshop on Automation of Software Test (2006)

Provisional Programme (revised)

9:00- 9:10am: *Opening*

Welcome Message from the co-chairs

9:10-10:30: *Session 1: Model-Driven Software Test* (Chair: Shing-Chi Cheng)

Automatic Test Case Generation for UML Activity Diagrams, by Mingsong Chen, Xiaokang Qiu and Xuandong Li, Nanjing University, China

Automation of GUI Testing Using a Model-driven Approach, by Marlon Vieira, Johanne Leduc, Bill Hasling and Rajesh Subramanian, Siemens Corporate Research, USA

On the Integration of Design and Test - A Model Based Approach for Embedded Systems, by Christian Pfaller, Andreas Fleischmann, Judith Hartmann, Martin Rapp, Sabine Rittmann and Doris Wild, Technische Universität München, Germany

Deriving tests from UML 2.0 sequence diagrams with neg and assert, by Mass Soldal Lund and Ketil Stolen, University of Oslo and SINTEF ICT, Norway

10:30-11:00: *Coffee Break*

11:00-12:40: *Session 2: Test Case Generation* (Chair: Rudolph Seiviora)

Automated Verification and Test Case Generation for Input Validation, by Hui Liu and Hee Beng Kuan Tan, Nanyang Technological University, Singapore

Automated WCET Analysis based on Program Modes, by Meng-Luo Ji, Ji Wang, National University of Defense Technology, China; Shuhao Li, National Lab for Parallel & Distributed Processing, China; Zhi-Chang Qi, National University of Defense Technology, China

Testing Software Modelling Tools Using Data Mutation, by Lijun Shan, National University of Defence Technology, China; Hong Zhu, Oxford Brookes University, UK

Automatically Testing Interacting Software Components, by Leonard Gallagher, National Institute of Standards and Technology, USA; Jeff Offutt, George Mason University, USA

Substra: A Framework for Automatic Generation of Integration Tests, by Hai Yuan and Tao Xie, North Carolina State University, USA

12:40-14:00: *Lunch break*

14:00-15:40: *Session 3: Economics of Test Automation: Test Cost and Effectiveness* (Chair: Jenny Li)

Optimal and Adaptive Testing with Cost Constraints, by Kai-Yuan Cai, Yong-Chao Li and Wei-Yi Ning, Beijing University of Aeronautics and Astronautics, China; Eric Wong, and Hai Hu, University of Texas at Dallas, USA

The Class Level Mutants of MuJava, by Jeff Offutt, George Mason University, USA; Yu-Seung Ma, Electronics & Telecommunications Research Institute, Korea; Yong-Rae Kwon, Korean Advanced Institute of Science and Technology, Korea

Economic Perspectives in Test Automation: Balancing Automated and Manual Testing with Opportunity Cost, by Rudolf Ramler and Klaus Wolfmaier, Software Competence Center Hagenberg, Austria

Advanced Unit Testing -- How to scale up a unit test framework, by Cyrille Artho, National Institute of Informatics, Japan; Armin Biere, Johannes Kepler Universitaet, Austria

Coupling-based Class Integration and Test Order, by Aynur Abdurazik and Jeff Offutt, George Mason University, USA

15:40-16:10: *Coffee break*

16:10-17:30: *Session 4: Tools and Environments* (Chair: Eric Wong)

A Survey of Coverage Based Testing, by Qian Yang, J. Jenny Li and David Weiss, Avaya Labs Research, USA

Developing a TTCN-3 Test Harness for Legacy Software, by Joseph Okika and Zhiming Liu, The United Nations University, Macao; Anders Ravn and Lokesh Siddalingaiah, Aalborg University, Denmark

EasyAccept - A Tool to Easily Create, Run and Drive Development with Automated Acceptance Tests, by Jacques Philippe Sauvé, Osório Lopes Abath Neto and Walfredo Cirne, Universidade Federal de Campina Grande, Brazil

A Strategy to Perform Coverage Testing of Mobile Applications, by Marcio Delamaro, Centro Universitario Euripides de Marília, Brazil; Auri Vincenzi, Universidade Federal de Goiás, Brazil; Jose Maldonado, Universidade de Sao Paulo, Brazil

19:30: *Workshop Banquet at Oriental Pearl Restaurant* (To be confirmed)