TAIC PART Program

Tuesday

09:00 - 09:30	Welcome (Mark Harman & Phil McMinn)	
09:30 - 10:30	Keynote: Bill Woodworth (IBM)	
10:30 - 11:00	Questions and discussion ~ Chair: Mark Harman	
11:00 - 11:30	Coffee	
11:30 - 13:00	Paper Session 1 ~ Chair: Rob Hierons (Brunel University)	
Motivation for Testing		
11:30	Justifying Testing in the 21st Century Ian Gilchrist (IPL Ltd.)	
11:50	Questions and discussion	
Fault Prediction		
12:00	Generating a Test Strategy with Bayesian Networks, and Common Sense Jean-Jacques Gras, Elena Pérez-Miñana and Rishabh Gupta (Motorola)	
12:20	On the Automation of Software Fault Prediction Thomas Ostrand and Elaine Weyuker $(AT\&T)$	
12:40	Questions and discussion	
13:00 - 14:00	Lunch	
14:00 - 15:30	Walk	
15:30 - 16:00	Tea	
16:00 - 18:00	Paper Session 2 ~ Chair: Mary Jean Harrold (Georgia Institute of Technology)	
Automated Inference and Abstraction		
16:00	Identifying State Transitions and their Functions in Source Code Neil Walkinshaw, Kirill Bogdanov, Mike Holcombe (University of Sheffield)	
16:20	Integration Testing of Components Guided by Incremental State Machine Learning Keqin Li, Roland Groz (LSR-IMAG), Muzammil Shahbaz (France Télécom)	
16:40	Questions and discussion	
PhD papers		
17:00	Incremental Inference of Black-Box Components to support Integration Testing Muzammil Shahbaz (France Télécom)	
17:15	Feedback and questions	
17:30	AutoAbstract: Problem Statement and Hypothetical Solutions Shaukat Ali (University of Sheffield)	
17:45	Feedback and questions	
19:00	Dinner	

Wednesday

09:00 - 10:30	Paper Session 3 ~ Chair: Ian Gilchrist (IPL Ltd.)
Testing in Context	
9:00	Towards Deploying Model-Based Testing with a Domain-Specific Modeling Approach Mika Katara, Antti Kervinen, Mika Maunumaa, (<i>Tampere University of Technology</i>) Tuula Pääkkönen (<i>Nokia Technology Platforms</i>) and Mikko Satama (<i>Tampere University of Technology</i>)
9:20	TRex - The Refactoring and Metrics Tool for TTCN-3 Test Specifications Paul Baker, Dominic Evans (<i>Motorola</i>), Jens Grabowski, Helmut Neukirchen, Benjamin Zeiss (<i>University of Göttingen</i>)
9:40	A test-oriented life-cycle production strategy for building embedded biomedical applications James Miller (<i>University of Alberta</i>), Mike Smith, Jingwen Chen, Juan Qiao, Fang Huang (<i>University of Calgary</i>) and Marc Roper (<i>University of Strathclyde</i>).
10:00	Questions and discussion
10:30 – 11:00	Coffee
11:00 – 13:00	Paper Session 4 ~ Chair: Marc Roper (University of Strathclyde)
Techniques	
11:00	Using program data-state diversity in test data search Mohammad Alshraideh and Leonardo Bottaci (University of Hull)
11:20	Testing the Implementation of Business Rules using Intensional Database Tests David Willmor and Suzanne Embury (<i>University of Manchester</i>)
11:40	Questions and discussion
PhD papers	
12:00	Generation of Conformance Test Suites for Compositions of Web Services Using Model Checking José García-Fanjul, Claudio De la Riva and Javier Tuya (University of Oviedo)
12:15	Feedback and questions
12:30	Enabling Run-Time System Verification through Built-In Testing Daniel Brenner
12:45	Feedback and questions
13:00 - 14:00	Lunch
14:00 - 15:30	Paper Session 5 ~ Chair: Joachim Wegener (DaimlerChrysler)
Techniques	
14:00	MaTRIX: Maintenance-Oriented Test Requirements Identifier and Examiner Taweesup Apiwattanapong, Raul Santelices, Pavan Kumar Chittimalli, Alessandro Orso, Mary Jean Harrold (Georgia Institute of Technology)
14:20	Extending Software Integration Testing Using Aspects in Symbian OS Jani Pesonen (Nokia)
14:40	Improving Testing Efficiency using Cumulative Test Analysis Ian Holden and Dave Dalton (IBM)
15:00	Questions and discussion
15:30 - 16:00	Tea
16:00 - 18:00	'Speed Dating' ~ Chair: Mark Harman
19:00	Dinner

Thursday

09:00 - 10:00	Keynote: John Hatcliff (Kansas State University)
10:00 - 10:30	Questions and discussion ~ Chair: Mark Harman
10:30 - 11:00	Coffee
11:00 - 13:30	Paper Session 6 ~ Chair: Mike Holcombe (University of Sheffield)
Empirical Studies	
11:00	A Framework for Comparing Efficiency, Effectiveness and Applicability of Software Testing Techniques Sigrid Eldh (<i>Ericsson</i>), Hans Hansson, Sasikumar Punnekkat, Anders Pettersson and Daniel Sundmark (<i>Mälardalen University</i>)
11:20	On the Testing Maturity of Software Producing Organizations Mats Grindal (<i>University of Skövde</i>), Jeff Offutt (<i>George Mason University</i>) and Jonas Mellin (<i>University of Skövde</i>)
11:40	The effectiveness of refactoring based on a compatibility testing taxonomy and a dependency graph Steve Counsell, Robert Hierons (<i>Brunel University</i>), Rajaa Najjar, George Loizou, and Youssef Hassoun (<i>Birkbeck College, London</i>)
12:00	Questions and discussion
PhD Papers	
12:30	Delayed Failures in Software Using High Volume Automated Testing Jeremy Gardiner (<i>Cranfield University</i>)
12:45	Feedback and questions
13:00	Empirical Assessment of Test-First Approach Liang Huang and Mike Holcombe (University of Sheffield)
13:15	Feedback and questions
13:30 - 14:30	Lunch
14:30 - 15:30	Paper Session 7 ~ Chair: Phil McMinn
Case Studies	
14:30	Testing a Datawarehouse - An Industrial Challenge Harry Sneed (ANECON)
14:50	Use Case-Based Acceptance Testing of a Large Industrial System: Approach and Experience Report Serguei Roubtsov and Petra Heck (Eindhoven University of Technology)
15:10	Questions and discussion
15:30	Voting for Best Presentation
16:00	Awards and Closing Comments (Mark Harman & Phil McMinn)
17:00	Close