

The 30th CREST Open Workshop

Search Based Software Testing (SBST) and Dynamic Symbolic Execution (DSE)

	++++++++27 January 2014 – DAY 1+++++++
10:00	Arrival, Coffee and Pastries
10:30	Welcome and Introductions
	Mark Harman, CREST Centre, SSE Group, Department of Computer Science, UCL
11:15	Field Failure Reproduction Using Symbolic Execution and Genetic Programming
	Alex Orso, College of Computing - School of Computer Science, Georgia Institute of Technology, USA
11:35	Discussion
11:50	Improving Search-based Unit Test Suite Generation with Dynamic Symbolic Execution
	Gordon Fraser, University of Sheffield, UK & Juan Pablo Galeotti, Saarland University, Germany
12:10	Discussion
12:25	SEMFIX: Automated program repair via semantic analysis
	Abhik Roychoudhury, National University of Singapore, Republic of Singapore
12:45	Discussion
13:00	Sandwich lunch at the venue
14:00	Evolutionary Testing of ECUs
	Joachim Wegener, Berner & Mattner, Germany
14:20	Discussion
14:35	A Testing Service for Software Binaries
	Cristian Zamfir, École polytechnique fédérale de Lausanne, Switzerland
14:55	Discussion
15:10	Refreshments
15:40	DSE+SBST: Marriage or Divorce
	Paolo Tonella, Software Engineering (SE) Research Unit, Fondazione Bruno Kessler (FBK), Italy
16:00	Discussion
16:15	Some Theoretical Results in (Search-Based) Software Testing
	Andrea Arcuri, Simula Research Laboratory, Norway
16:35	Discussion
16:50	Combine SBST and DSE for mutation based test data generation
	Yue Jia, CREST Centre, SSE Group, Department of Computer Science, UCL, UK
17:10	Discussion
18:00	Wrap-up
18:30	Close



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++++++++28 January 2014 – DAY 2+++++++

9:30	Arrival, Coffee and Pastries
10:00	500 Machine-Years of Software Model Checking (and DSE) at Microsoft + What Next
	Patrice Godefroid, Microsoft Research, Redmond, USA
10:20	Discussion
10:35	KATCH: High-Coverage Testing of Software Patches
	Paul Marinescu, Software Reliability Group, Imperial College London, UK
10:55	Discussion
11:10	Refreshments
11:40	Breakout groups
12:40	Lunch at the venue
13:40	Plenary and feedback for groups
14:40	Searching for Readable, Realistic Test Cases
	Phil McMinn, University of Sheffield, UK
15:00	Discussion
15:15	Refreshments
15:45	Search based test data generation for server-side web application testing
	Nadia Alshahwan, CREST Centre, SSE Group, Department of Computer Science, UCL
16:05	Discussion
16:20	Wrap-up
16:45	Close