The 13th CREST Open Workshop
Future Internet Testing (FITTEST) & Search Based Software Engineering (SBSE)

Programme of Day 1 – Thursday 12th May 2011

9:00  Arrival, Coffee and Pastries

9:30  Welcome and Introductions

9:45  Mutation Testing
Searching for Program Invariants using Genetic Programming and Mutation Testing
David White, University of York, UK
Search Based Mutation Testing
Mike Papadakis, Athens University of Economics and Business, Greece
Fault Injection Testing at Ericsson: Challenges for the Research Community
Sigrid Eldh, Ericsson, Sweden

11:15 – 11:45 Coffee Break

11:45  Requirements & Planning
Sensitivity Analysis for Requirements using exact Optimization
Francisco Palomo Lozano, UCASE Software Engineering Research Group, University of Cádiz, Spain
Search Based Requirements Prioritization
Soo Ling Lim, CREST Centre, SSE Group, Department of Computer Science UCL, UK
Machine Learning for Software Effort Estimation
Leandro Minku, University of Birmingham, UK

13:15 – 14:15 Lunch

14:15  Future directions in SBSE
Learning from Hamming - Why the Big Problems Matter
Peter Bentley, Department of Computer Science, UCL, UK
Evolving a CUDA Kernel from an nVidia Template
Bill Langdon, CREST Centre, SSE Group, Department of Computer Science, UCL, UK
Evolving Reasons for Software Tests
Robert Feldt, Chalmers and Gothenburg University, Sweden

15:45 – 16:15 Coffee Break

16:15  Future directions in SBSE
A GP Approach to Shader Optimization
Westley Weimer, Department of Computer Science, University of Virginia, USA
Using Search Based Optimization for Chemical Engineering
Eric S Fraga, Department of Chemical Engineering, UCL, UK
Crunch: Search-based Hierarchy Generation for State Machines
Mathew Hall, Department of Computer Science, University of Sheffield, UK

17:45  Discussions, Wrap Up and Close of Day 1

18:30  Dinner at the Terrace Restaurant at UCL

http://crest.cs.ucl.ac.uk/cow/13
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Programme of Day 2 – Friday 13th May 2011

9:00  Arrival, Coffee and Pastries

9:30  Future directions in SBSE
Motorola Software Engineering and Testing: Challenges for the Search Based Software Engineering Community
Paul Baker, Motorola, UK
Search Based Software Engineering for Model Based Development and Testing
Alin Stefanescu, University of Pitesti, Romania
Industrial Future Internet Testing Optimisation Needs
Emitzá Guzmán Ortega, FastFix project, Institut für Informatik, Technische Universität München, Germany

10:45 – 11:15 Coffee Break

11:15  Industrial Future Internet Testing Optimisation Needs
Search based Test Optimisation: An Industrial Perspective
Joachim Wegener, Berner & Mattner, Germany
Testing Challenges for the Research Community from IBM
Eitan Farchi, IBM Haifa Research Lab, Israel
Testing Challenges for the Research Community from Softeam
Cyril Ballagny, Softeam, France

12:45 – 13:45 Lunch

13:45  Working groups

15:15  Future Directions in SBSE
Theoretical Foundations of SBSE
Xin Yao, University of Birmingham, UK
Automatically Documenting Program Changes
Westley Weimer, Department of Computer Science, University of Virginia, USA
Adventures in Quantum Programming Synthesis
John Clark, University of York, UK

17:15  Concluding remarks

17:30  Close