

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*

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

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 – 15:45 *Coffee Break*

15:45 **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**