



**The 34<sup>th</sup> CREST Open Workshop  
CREST Annual Review**

+++++++19 May 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** **Evolving Faster Nifty Reg 3D Medical Image Registration CUDA kernels**

**Bill Langdon, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**11:35** **Discussion**

**11:50** **Overview of Music Systems Engineering**

**Nicolas Gold, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**12:10** **Discussion**

**12:25** **The Plastic Surgery Hypothesis**

**Federica Sarro, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**12:45** **Discussion**

**13:00** *Sandwich lunch at the venue*

**14:00** **Experimental Assessment of Software Metrics Using Automated Refactoring**

**Iman Hemati Moghadam, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**14:20** **Discussion**

**14:35** **Learning Combinatorial Interaction Testing Strategies using Hyperheuristic Search**

**Yue Jia, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**14:55** **Discussion**

**15:10** *Refreshments*

**15:40** **Ask the Mutants: Mutating Faulty Programs for Fault Localisation**

**Shin Yoo, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**16:00** **Discussion**

**16:15** **Robust Next Release Problem: Handling Uncertainty During Optimization**

**Lingbo Li, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**16:35** **Discussion**

**16:50** **Using Genetic Improvement and Code Transplants to Specialise a C++ Program to a Problem Class**

**Justyna Petke, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**17:10** **Discussion**

**17:25** **Wrap-up**

**17:45** **Close**

**The 34<sup>th</sup> CREST Open Workshop  
CREST Annual Review**

+++++++20<sup>th</sup> May 2014 – DAY 2+++++++

**9:30** *Arrival, Coffee and Pastries*

**10:00** **Genetic Improvement for Adaptive Software Engineering**

**Fan Wu, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**10:20** **Discussion**

**10:35** **Coverage and Fault Detection of the Output-Uniqueness Test Selection Criteria**

**Nadia Alshahwan, CREST Centre, SSE Group, Department of Computer Science, UCL, 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** **Pidgin crasher: Searching for Minimised Crashing GUI Event Sequences**

**Haitao Dan, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**15:00** **Discussion**

**15:15** *Refreshments*

**15:45** **Online App Reviews: Feature Request Ecosystem**

**William Martin, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**16:05** **Discussion**

**16:20** **An Empirical Study of Meta- and Hyper-Heuristic Search for Multi-Objective Release Planning**

**Yuanyuan Zhang, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**16:40** **Discussion**

**16:55** **Comparing models of symbolic music using probabilistic grammars and probabilistic programming**

**Samer Abdallah, CREST Centre, SSE Group, Department of Computer Science, UCL, UK**

**17:15** **Discussion**

**17:30** **Wrap-up**

**17:45** **Close**