



The 28th CREST Open Workshop
Genetic Programming for Software Engineering

+++++++14 October 2013 – 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 Gen-O-Fix Embedded Genetic Improvement Programming via Reflection

John R. Woodward, Computing Science and Mathematics, University of Stirling, UK

11:35 Discussion

11:50 Bloat vs. overfitting in test-driven GP for program repair

Claire Le Goues, School of Computer Science at Carnegie Mellon University, USA

12:10 Discussion

12:25 Co-operative Co-evolution for Game Design from a Computational Creativity Perspective

Simon Colton, Department of Computing, Goldsmiths, University of London, UK

12:45 Discussion

13:00 Sandwich lunch at the venue

14:00 Evolutionary Optimisation of Python Programs Based on Execution Times

Gabriela Ochoa, Computing Science and Mathematics, University of Stirling, UK

14:20 Discussion

14:35 The calculator problem and the evolutionary synthesis of arbitrary software

Lee Spector, School of Cognitive Science, Hampshire College

14:55 Discussion

15:10 Refreshments

15:40 Genetic Programming with Meaning and Confidence

Colin Johnson, School of Computing, University of Kent, UK

16:00 Discussion

16:15 Genetically Improving MiniSAT

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

16:35 Discussion

16:50 Wrap-up

17:15 Close



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+++++++15 October 2013 – Day 2+++++++

9:30 *Arrival, Coffee and Pastries*

10:00 **Genetic Improvement Programming**
Bill Langdon, CREST Centre, SSE Group, Department of Computer Science, UCL, UK

10:20 **Discussion**

10:35 **Fraglets and the Evolution of Chemical Programs**
Lidia A. R. Yamamoto, University of Strasbourg, France

10:50 **Discussion**

11:05 *Refreshments*

11:30 **Breakout groups**

12:30 *Lunch at the venue*

13:30 **Plenary and feedback for groups**

14:05 **Genetic Software Transplantation**
Mark Harman, CREST Centre, SSE Group, Department of Computer Science, UCL

14:25 **Discussion**

14:40 *Refreshments*

15:10 **Genetic Programming, Grammars, and Program Maintenance**
Bob McKay, Seoul National University, Korea

15:30 **Discussion**

15:45 **Human maintainability of patches**
Westley Weimer, Department of Computer Science, University of Virginia, USA

16:05 **Discussion**

16:20 **Wrap-up**

17:00 **Close**