The 20th CREST Open Workshop

The Oracle Problem for Automated Software Testing

21 - 22 May 2012
Engineering Front Executive Suite, Roberts Building, UCL

Programme

++++++++++21 May 2012 – DAY 1++++++++++

09:30 Arrival, Coffee and Pastries

10:15 Welcome and Introductions
   Mark Harman, CREST Centre, SSE Group, Department of Computer Science, UCL, UK

11:00 Overview of Oracles in Testing
   Shin Yoo, CREST Centre, SSE Group, Department of Computer Science, UCL, UK and Muzammil Shahbaz, University of Sheffield, UK

11:30 Refreshments

12:00 Runtime monitoring and testing of cloud services
   Wolfgang Grieskamp, Google Inc., USA

12:30 Supporting Test Oracle Construction
   Matt Staats, Department of Computer Science and Engineering, University of Minnesota, USA

13:00 Sandwich lunch at the venue

14:00 Testing is nothing but reckoning: An Empiricist Perspective on Testing
   Neil Walkinshaw, University of Leicester, UK

14:30 Mining anomaly detectors
   Paolo Tonella, Software Engineering (SE) Research Unit, Fondazione Bruno Kessler (FBK), Italy

15:00 Popular Delusions, Crowds, and the Coming Deluge: end of the Oracle?
   Robert Binder, System Verification Associates LLC, USA

15:30 Refreshments

16:00 Automating Test Automation
   Saurabh Sinha, IBM Research, India

16:30 Oracles and testing at Microsoft
   Wofram Schulte, Microsoft Research, USA

17:00 Wrap up and discussion
   Mark Harman, CREST Centre, SSE Group, Department of Computer Science, UCL, UK

18:00 Close

18:15 Light Dinner at the Marlborough Arms
22nd May 2012 – Day 2

09:30 Arrival, Coffee and Pastries

10:00 Oracles in TTCN-3 and UTP
    Ina Schieferdecker, Fraunhofer-Institut für Offene Kommunikationssysteme (FOKUS), Germany

10:30 When the earth is the oracle
    Robert Nilsson, Google Inc., Switzerland

11:00 Metamorphic Testing
    Tsong Chen, Centre for Computing and Engineering Software Systems, Swinburne University of Technology, Australia

11:30 Refreshments

12:00 Oracle Problem: An Industrial Perspective
    Andrea Arcuri, Schlumberger and Simula Research Laboratory, Norway

12:30 Which Test Oracle Should I Use for Effective GUI Testing?
    Atif Memon, Dept. of Computer Science, University of Maryland, USA

13:00 Sandwich lunch at the venue

14:00 Implicit oracles from software redundancy
    Mauro Pezzè, University of Milano Bicocca, Italy and University of Lugano, Switzerland

14:30 Carving invariants
    Andreas Zeller, Computer Science, Saarland University, Germany

15:00 Refreshments

15:30 Mining web pages for realistic test inputs to lower oracle cost
    Phil McMinn, University of Sheffield, UK

16:00 Generating oracles with mutation testing and the crowd
    Gordon Fraser, University of Sheffield, UK

16:30 Wrap up

17:30 Close