

The 19th CREST Open Workshop

Interference and Dependence

30 April – 1 May 2012

Engineering Front Executive Suite, Roberts Building, UCL

Programme

+++++++30 April 2012 – DAY 1+++++++

10:00 *Arrival, Coffee and Pastries*

10:30 **Welcome and Introductions**

Kelly Androutsopoulos, CREST Centre, SSE Group, Department of Computer Science UCL, UK

11:00 **Consistency Management**

Anthony Finkelstein, SSE Group, Department of Computer Science, UCL, UK

11.30 **Typing illegal information flows as program effects**

José Santos, Departamento de Engenharia Informática, Lisbon, Portugal

12.00 **An Overview of UPPAAL and Its Applications**

Alexandre David, Department of Computer Science, Aalborg University, Denmark

12:30 *Sandwich lunch at the venue*

14:00 **Fault Tolerant Noninterference**

David Sands, Department of Computer Science & Engineering, Chalmers University of Technology, Sweden

14:30 **Using QIF on Software Testing**

David Clark, CREST Centre, SSE Group, Department of Computer Science, UCL, UK

15:00 **Adaptation of Service Composition**

Andrea Zisman, Department of Computing, School of Informatics, City University London, UK

15.30 *Refreshments*

16:00 **Abstract non-interference**

Roberto Giacobazzi, Dipartimento di Informatica, Università degli Studi di Verona, Italy

16:30 **Abstract Slicing - Abstract interpretation-based approaches to slicing**

Isabella Mastroeni, Dipartimento di Informatica, Università degli Studi di Verona, Italy

17.00 **Discussion**

18.00 **Wrap up**

18.15 **Light Dinner at the Marlborough Arms**

+++++++1 May 2012 – Day 2+++++++

9:00 *Arrival, Coffee and Pastries*

9:30 **Interference, Dependence and Bell's Theorem**
Samson Abramsky, Department of Computer Science, University of Oxford, UK

10:00 **The Thermodynamics of Interference**
Pasquale Malacaria, School of Electronic Engineering and Computer Science, Queen Mary University of London, UK

10:30 **Dependence Communities in Software**
Sebastian Danicic & James Hamilton, Department of Computing, Goldsmiths University of London, UK

11:00 *Refreshments*

11:30 **Differential Privacy at work: Controlling the privacy threats induced by Data Dependence**
Catuscia Palamidessi, INRIA Saclay and LIX, École Polytechnique, France

12:00 **Information Flow Analysis for JavaScript**
Christian Hammer, CISPA, Saarland University, Germany

12:30 **Using Probabilistic Strategies to Reason About Information Flow**
Sebastian Hunt, School of Informatics, City University London, UK

13:00 *Sandwich lunch at the venue*

14:30 **Dependence clusters**
Mark Harman, CREST Centre, SSE Group, Department of Computer Science, UCL, UK

15:00 **A General Model Based Slicing Framework**
Tony Clark, Department of Business Information Systems, Middlesex University, UK

15.30 **Hoare-like Logics for Verifying and Inferring Conditional Information Flow**
Torben Amtoft, Department of Computing & Information Sciences, Kansas State University, USA

16:00 **Wrap-up**

17.15 **Close**