

The 15th CREST Open Workshop

Predictive Modelling and Search Based Software Engineering

24 - 25 October 2011
Engineering Front Executive Suite, Roberts Building, UCL.

+++++++24 October - DAY 1+++++++

- 10:00** *Arrival, Coffee and Pastries*
- 10:30** **Welcome and Introductions**
Mark Harman, CREST Centre, SSE Group, Department of Computer Science UCL, UK
- 11:30** **Keynote**
S.P.A.C.E. Exploration for Software Engineering
Tim Menzies, Lane Department of Computer Science & Electrical Engineering, West Virginia University, USA
- 12:30** **Discussion**
- 13:00** *Sandwich lunch at the venue*
- 14:00** **Session 1- Chair: Shin Yoo, CREST Centre, SSE Group, UCL, UK**
Failure-prediction in Practice: Lessons Learned
Nachi Nagappan, Microsoft Research, USA
Software Quality: Moving Research To Practice
Ahmed E. Hassan, School of Computing, Queen's University, Canada
Speculative Analysis: Exploring Future States of Software
Yuriy Brun, Computer Science & Engineering, University of Washington, USA
- 15:30** *Refreshments*
- 16:00** **Session 2 - Chair: Mark Harman, CREST Centre, SSE Group, UCL, UK**
On the Evaluation of Defect Prediction Models
Thilo Mende, Software Engineering Group, University of Bremen, Germany
It doesn't matter what you do but does matter who does it!
Martin Shepperd, Brunel University, West London, UK
- 17:00** **Working session: SBSE, metrics and models: collaborations, connections and opportunities**
- 18:00** **End of day 1**
Light Dinner at Marlborough Arms

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++++++25 October - Day 2++++++

9:00 *Arrival, Coffee and Pastries*

9:30 **Session 3 – Chair: David Clark, CREST Centre, SSE Group, UCL, UK**

Software effort estimation as a multi-objective learning problem

Leandro Minku, CERCIA, School of Computer Science, University of Birmingham, UK

Causal models for better fault localisation

George K. Baah, College of Computing, Georgia Institute of Technology, USA

Using Information Theory to Guide Fault Localisation

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

11:00 *Refreshments*

11:30 **Session 4 – Chair: Yuanyuan Zhang, Department of Computer Science, UCL, UK**

Search-based techniques metric definition to identify defective classes

Segla Kpodjedo, École Polytechnique de Montréal, Canada

Subgroup Discovery for Defect Prediction

Rachel Harrison, Oxford Brookes University, UK

Real-World Challenges in Building Accurate Software Fault Prediction Models

Cagatay Catal, TUBITAK-BILGEM (Research Council of TURKEY), Turkey

13:00 *Sandwich lunch at the venue*

14:00 **Session 5 – Chair: Elaine J. Weyuker, AT&T Labs Research, USA**

Cost estimation result consistency: Implications for SBSE

Marc Roper, Computer and Information Sciences, University of Strathclyde, UK

Software quality prediction

Stefan Wagner, Institute of Softwaretechnology, Universität Stuttgart, Germany

Early Failure Prediction in Feature Request Management Systems

Camilo Fitzgerald, SSE Group, Department of Computer Science, UCL, UK

15:30 *Refreshments*

16:00 **Keynote**

Reflections and Perspectives on Predictive Modelling in Industry

Thomas J. Ostrand, AT&T Labs Research, USA

17:00 **Discussion**

17:30 **Wrap-up**

18:00 **Close**