Machine Learning and Search Based Software Engineering (ML&SBSE)

+++++++++30 January 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   **A overview of SBSE**
Shin Yoo, CREST Centre, SSE Group, Department of Computer Science, UCL, UK

12:15 **Multi-armed bandits and Monte-Carlo tree search for system control under uncertainty**
Michele Sebag, Université Paris Sud, France

13:15 Sandwich lunch at the venue

14:15 **Bandit algorithms for Online Linear Optimization**
Nicolo Cesa-Bianchi, Dipartimento di Informatica, Università degli Studi di Milano, Italy

14:45 **Discussion**

15:00 **Local Search for MAXSAT: Constant time moves and constant time lookahead for very large problems**
Darrell Whitley, Department of Computer Science, Colorado State University, USA

15:30 **Discussion**

15:45 Refreshments

16:30 **Active Learning for Multi-Objective Optimization**
Andreas Krause, Learning & Adaptive Systems Group, ETH Zurich, Switzerland

17:00 **Discussion**

18:00   **Wrap up**

18:15 Light Dinner at the Marlborough Arms

Machine Learning and Search Based Software Engineering (ML&SBSE)

+++++++++31 January 2013 2012 – Day 2+++++++++

9:30   *Arrival, Coffee and Pastries*

10:00   **Characterizing the Windows Software Development Environment**
       Brendan Murphy, Microsoft Research, Cambridge, UK

10:30   **Discussion**

10:45   **Over the Horizon: ML+SBSE = What?**
       Tim Menzies, Lane Department of Computer Science & Electrical Engineering, West Virginia University, USA

11:15   **Discussion**

11:30 *Refreshments*

12:00   **Software Effort Estimation as a Multi-objective Learning Problem**
       Leandro Minku, CERCIA, School of Computer Science, University of Birmingham, UK

12:30   **Discussion**

12:45 *Sandwich lunch at the venue*

13:45   **Machine Learning, the silver bullet?**
       Ahmed E. Hassan, School of Computing, Queen's University, Canada

14:15   **Discussion**

14:30   **Assessing the predictive performance of machine learners in software engineering**
       Martin Shepperd, Information Systems and Computing, Brunel University, UK

15:00   **Discussion**

15:15   *Refreshments*

15:45   **Sex as Gibbs Sampling: Modelling Evolution with a Tractable Markov Chain**
       Chris Watkins, Department of Computer Science in Royal Holloway, University of London, UK

16:15   **Discussion**

16:30   **TBC**
       David Silver, Department of Computer Science, UCL, UK

16.45   **Discussion**

17:00   **Wrap-up**

17:15   **Close**