

+++++++29 October 2012 – 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

10:45 **Regression Testing: minimisation, selection, and prioritisation**

[Shin Yoo](#), CREST Centre, SSE Group, Department of Computer Science, UCL, UK

11.30 **Interactive computer based design and understanding through optimisation**

[Eric Fraga](#), Department of Chemical Engineering, UCL, UK

12.15 **Optimizing Geometric Forms: Trends and Challenges**

[Nilov J. Mitra](#), Virtual Env. and Computer Graphics, Department of Computer Science, UCL, UK

13:00 *Sandwich lunch at the venue*

14:00 **The challenge of optimising materials**

[Mark Miodownik](#), Department of Mechanical Engineering, UCL, UK

14:45 **Using computational search to automate programming**

[Mark Harman](#), CREST Centre, SSE Group, Department of Computer Science, UCL, UK

15.30 *Refreshments*

16:00 **Discussion**

17.00 **Wrap up**

17:30 *Light Dinner at the Marlborough Arms*

+++++++30 October 2012 – Day 2+++++++

9:30 *Arrival, Coffee and Pastries*

10:00 Application of multi-objective/multi-disciplinary optimization in turbomachinery and microfluidics applications
[Mehrdad Zangeneh](#), Department of Mechanical Engineering, UCL, UK

10:45 Optimisation in process engineering context
[Eva Sorensen](#), Department of Chemical Engineering, UCL, UK

11:30 *Refreshments*

12:00 Discussion

13:00 *Sandwich lunch at the venue*

14:00 Genetic Improvement Programming
[Bill Langdon](#), CREST Centre, SSE Group, Department of Computer Science, UCL, UK

14:45 UCL Decisional Tools: Biopharmaceutical Capacity Optimisation at the Bioprocess -Business Interface
[Suzanne Farid](#), Department of Biochemical Engineering, UCL, UK

15:30 *Refreshments*

16:00 Software engineers optimising the world - what could possibly go wrong? (and what to do about it)
[Emmanuel, Letier](#), SSE Group, Department of Computer Science, UCL

16:45 Wrap up

17.15 Close

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*Please note that attendance is by registration only. For registration details please visit <http://crest.cs.ucl.ac.uk/cow/>.

Through the kind support of the EPSRC (<http://www.epsrc.ac.uk>) CREST Platform Grant (<http://gow.epsrc.ac.uk/ViewGrant.aspx?GrantRef=EP/G060525/1>), we have funding to support this workshop, so registration is free. However, please appreciate that numbers are limited and catering

needs to be booked in advance, so registration followed by non-attendance will cause difficulties. For this reason, though the workshop is entirely free of charge, there will be a **cancellation fee of £100 for those who register but subsequently fail to attend.**

This is a provisional programme. There may be some changes to precise talk titles, though the topic will remain “Engineering Optimization”, and the times will remain unaltered.

For more details, including registration for this event and slides, videos and other resources from previous events, visit the CREST Open Workshop Website at: <http://crest.cs.ucl.ac.uk/cow/>