

Optimization problems in Computer Vision: Algorithms, Principles and Practice

One Day BMVA symposium at the [Royal Statistical Society](http://www.royalsocietypublishing.org/royalsocietypublishing/doi/10.1098/rsos.120000), 12
Errol Street, London, UK on November 17th 2004.
www.bmva.ac.uk/meetings

Chairs: Dr. Andrew Fitzgibbon (University of Oxford) and
Dr. Daniel Alexander (University College London)

- 10.00 **Registration and coffee**
10.25 **Welcome and Introduction**
10.30 **Tutorial: When Innovation is Just Optimization**
Andrew Fitzgibbon (University of Oxford)
11.30 **A non-linear optimization method for non-rigid structure from motion recovery**
Alessio Del Bue and Lourdes Agapito (QMW)
11.55 **The Gauss-Newton-Krylov method for non-linear inverse problems**
Martin Schweiger (Dept. Computer Science, UCL)
12.20 **Markov-Chain Monte-Carlo strategies applied to non-linear inverse problems**
Robert G. Aykroyd, Brian A. Cattle and Robert M. West (University of Leeds)
12.45 **Lunch**
13:45 **The Equal Variance Domain: Issues Surrounding the Use of Probability
Densities in Algorithm Design**
Neil Thacker and Paul Bromiley (Manchester University)
14.45 **Simulation of Random Tree Models using Markov Chain Monte Carlo**
D. Fan, A. Bhalerao, E. Thonnes, R. Wilson and W. Kendall (U. of Warwick)
15.10 **Tea**
15.35 **A Hybrid Newton Method for Matrix Factorization**
Aeron Morgan (University of Oxford)
16.00 **Classical and Stochastic Optimization for Void Boundary Detection in Scattering
Media**
Bin Liu and Simon Arridge (Dept. Computer Science, UCL)
16.25 **Close**

REGISTRATION FORM: 17th November 2004 Meeting

Please return this form to Leanne Pring, Royston Parkin, 95 Queen Street, Sheffield, S1 1WG, Tel 0114 272 0306, Fax 0114 272 6158 or via email to BMVA@roystonparkin.co.uk. The meeting is free to members of the BMVA but a charge of £20 is payable by non-members. A sandwich lunch is available at a cost of £5 and should be booked in advance. When registering please enclose a cheque for the appropriate amount made payable to "The British Machine Vision Association".

NAME:
ADDRESS:
TEL:
email:
BMVA MEMBER: YES/NO
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VEGETARIAN: YES/NO