Mini-symposium A13
Bayesian Inverse Problems and Data Assimilation

Organizer:
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Fri - 9 Jan 2015 | 11:00 – 12:30 | Room 05-98, Block S16
Chair: Viet Ha Hoang

11:00 A13-01 Keynote
Structuring Sample-Based Inference for Tomography and Other Linear Inverse Problems
Colin Fox, Richard Norton
Physics Department, University of Otago

11:30 A13-02 Invited
Posterior Contraction Rates in Bayesian Inverse Problems
Kui Lin1, Peter Mathé2, Shuai Lu1
1School of Mathematical Sciences, Fudan University, China; 2Weierstrass Institute for Applied Analysis and Stochastics, Germany

12:00 A13-03
Matrix splitting analysis of random-walk Markov chains
Richard A. Norton, Colin Fox
Department of Physics, University of Otago, PO Box 56, Dunedin 9054, New Zealand

12:15 A13-04
Choice of flaw models in Eddy-Current testing by using Nested Sampling
Caifang Cai1, Thomas Rodet2, Marc Lambert3
1Laboratoire des Signaux et Systèmes UMR8506 (CNRS-Supelec-Univ. Paris Sud), 3 rue Joliot-Curie, 91192 Gif-sur-Yvette, France; 2Laboratoire des Systèmes et Applications des Technologies de l'Information et de L'Energie, ENS-Cachan, 61 avenue du Président Wilson, 94230 Cachan, France

Fri - 9 Jan 2015 | 14:00 – 15:30 | Room 05-98, Block S16
Chair: Andrew Stuart

14:00 A13-05 Invited
Multi-Level sequential Monte Carlo samplers
Alex Beskos1, Ajay Jasra2, Kody Law3, Ege Muzaffer2, Raul Tempone3
1University College London, 2National University of Singapore, 3King Abdullah University of Science and Technology

14:30 A13-06 Invited
Data-driven tight frame and sparse image modelling
Jianfeng Cai, Hui Ji, Zuowei Shen and Guibo Ye
Department of Mathematics, National University of Singapore

15:00 A13-07 Invited
Multilevel Markov Chain Monte Carlo method for Bayesian inverse problems
Viet Ha Hoang
Division of Mathematical Sciences, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore