

IPNet Digest Volume 20, Number 03 March 31, 2013

Today's Editor:

Patricia K. Lamm, Michigan State University

Today's Topics:

Workshop: Electromagnetics, including Inverse Electromagnetic Scattering
Postdoctoral Position: Inverse Problems and Data Assimilation
Table of Contents: Inverse Problems

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Subject: Workshop: Electromagnetics — Modelling, Simulation, Control and Industrial Applications
From: Guanghui Hu <hu@wias-berlin.de>
Date: 3/1/2013

Workshop: "Electromagnetics — Modelling, Simulation, Control and Industrial Applications" at Berlin, Germany, May 13-17, 2013

This workshop (EMSCA) will be held at Weierstrass Institute for Applied Analysis and Stochastics (WIAS), Berlin, during May 13-17, 2013.

It aims to provide an international forum for researchers working on electromagnetics — ranging through mathematical modeling, analytical methods, computational algorithms as well as multi-physics problems. The purpose of the workshop is to strengthen the collaboration link among mathematics, physics and engineering disciplines. The scientific scope and range of EMSCA includes (but is not restricted to):

Finite and boundary element methods for Maxwell's equations;
Analytic theories and methods;
Optimal control and model reduction;
Multifrequency induction hardening;
Diffractive optics;
Direct and inverse electromagnetic scattering problems;
Electromagnetics in complex and random environments.

The list of invited speakers and registration form can be found at

<http://www.wias-berlin.de/workshops/IFIP-EMSCA2013/>

The call for contributed talks is still open. We look forward to meeting you in Berlin.

Subject: Postdoctoral Positions at Warwick University
From: [andrew stuart <A.M.Stuart@warwick.ac.uk>](mailto:andrew.stuart@warwick.ac.uk)
Date: 3/5/2013

Warwick University
Two 1 Year Postdoctoral Positions
Start Date: 1st October 2013
Inverse Problems and Data Assimilation
Working in the group of Andrew Stuart
in the Bayesian Approach to Inverse Problems

<http://homepages.warwick.ac.uk/~masdr/openpositions.html>

Submitted by:
Andrew Stuart a.m.stuart@warwick.ac.uk
Mathematics Institute Office: +UK (0)24-7652-2685
University of Warwick Department: +UK (0)24-7652-4661
Coventry CV4 7AL Fax: +UK (0)24-7652-4182
England
http://www2.warwick.ac.uk/fac/sci/math/people/staff/andrew_stuart/

Subject: Inverse Problems, Volume 29, Number 3, March 2013
From: <custserv@iop.org>
Date: 3/5/2013

Inverse Problems March 2013 Volume 29, Number 3
Table of Contents

Reflection imaging of layered media without using low frequencies
Frank Natterer

Estimating the ice thickness of mountain glaciers with an inverse approach using surface topography and mass-balance
Laurent Michel, Marco Picasso, Daniel Farinotti, Andreas Bauder, Martin Funk, and Heinz Blatter

Belief-propagation reconstruction for discrete tomography
E Gouillart, F Krzakala, M Mézard, and L Zdeborová

Solving an inverse obstacle problem for the wave equation by using the boundary control method Lauri Oksanen

Reconstruction of extended sources for the Helmholtz equation
Rainer Kress, and William Rundell

Nonparametric instrumental regression with non-convex constraints
M Grasmair, O Scherzer, and A Vanhems

Minimization and parameter estimation for seminorm regularization models with I-divergence constraints
T Teuber, G Steidl, and R H Chan

Broken ray tomography in the disc
Joonas Ilmavirta

Point source identification in nonlinear advection–diffusion–reaction systems
A V Mamonov, and Y-H R Tsai

Corrigendum: On the reconstruction of interfaces using complex geometrical optics solutions for the acoustic case
Mourad Sini, and Kazuki Yoshida

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