IPNet DigestVolume 21, Number 02January 30, 2014Today's Editor:Patricia K. Lamm, Michigan State University

Today's Topics:

Conference: Biomedical Applications of Electrical Impedance Tomography Conference: Inverse Problems from Theory to Application Conference: Chaotic Modeling and Simulation Position: Postdoc position in Imaging Science, University College London Journal Notice: 30th Anniversary of Inverse Problems Journal Special Issue: Inverse Problems Table of Contents: Inverse Problems in Science and Engineering Table of Contents: Inverse Problems

Submissions for IPNet Digest:

Mail to ipnet-digest@math.msu.edu

Information about IPNet:

http://www.math.msu.edu/ipnet

Subject: Call for Papers: EIT 2014 Conference: Apr 24-26, 2014 From: Andy Adler <info@eit2014.org> Date: 1/7/2014

Papers are invited for the 15th International Conference on Biomedical Applications of Electrical Impedance Tomography (EIT 2014), 24th-26th April 2014 at the Glen House Resort in Gananoque, Canada.

www.eit2014.org

Papers are invited in the following areas:

Inverse Problems and Theory
Software for Impedance Imaging
Algorithms and Data Analysis
Clinical applications of Impedance Imaging
Hardware for Impedance Imaging
Related developments in areas such as Geophysics and Process Tomography
with potential for cross-over to biomedical applications

Contributions should be prepared using the templates below and submitted online (to be announced) in either PDF or DOCX format. Additional instructions and requirements are specified in the templates:

Latex: http://www.sce.carleton.ca/faculty/adler/eit2014/tmplt_latex.zip
Word: http://www.sce.carleton.ca/faculty/adler/eit2014/tmplt word.zip

Submissions should be made using the EasyChair system available at: https://www.easychair.org/account/signin.cgi?conf=eit2014

If you already have an EasyChair account, you should use your existing credentials. Otherwise, please sign up for an account using the above link.

Dates: 15 Feb 2014 1 page paper submission 01 Mar 2014 Notification of acceptance

Best Student Paper Award An award for best student paper will be given, sponsored by the IOP PMEA. The award will be based on the quality of the scientific contribution and the clarity of the research presentation in both the abstract and the talk at the conference. To be considered for this award, authors must be students, and indicate in the submission form that they wish to be considered.

Subject: IPTA 2014: Inverse Problems from Theory to Application Conference From: Leanne Mullen <Leanne.Mullen@iop.org> Date: 1/23/2014

IPTA 2014: Inverse Problems from Theory to Application Conference

IPTA 2014, hosted by the journal Inverse Problems, will be held in Bristol at the science museum At-Bristol on 26-28th August 2014.

Scientific committee: Professor Alfred K Louis, Professor Simon Arridge and Professor Bill Rundell.

This conference will include plenary lectures, mini-symposia and a public lecture. In addition to the invited speakers, the winner of the 'Inverse Problems Young Researcher Award' will also present a plenary lecture. The following list of mini-symposia is now complete and over 60 mini-symposia speakers are already confirmed.

Full list of confirmed mini-symposia:

Inverse Problems in Industry Inverse Problems in Biology Inverse Scattering Hybrid Medical Imaging Seismic Imaging Inverse Statistical Methods Regularisation Methods - Theory Identification using PDEs Regularisation Methods - Algorithms Asymptotic Expansions Inverse Problems for Wave Phenomena Inverse Spectral Problems Compressive Sensing Inverse Boundary Problems Inverse Source Problems Tomography Physical Imaging Inverse Problems in Astronomy

Registration is now open. Early bird registration closes on 19 May 2014. http://ipta2014.iopconfs.org

We look forward to welcoming you to Bristol.

With best wishes,

Dr Leanne Mullen Publishing Editor, Inverse Problems

Subject: 7th Chaotic Modeling and Simulation International Conference, 7-10 June 2014 Lisbon, Portugal From: <Conf@cmsim.org> Date: 1/21/2014

Dear Colleague,

You are kindly invited to participate and submit an abstract or paper or to organize a special or invited session to the forthcoming Nonlinear Analysis Conference titled:

7th Chaotic Modeling and Simulation International Conference (CHAOS2014),

Lisbon, Portugal 7-10 June 2014 (http://www.cmsim.org).

* If you already have submitted your contribution ignore this message. However, you can visit the CMSIM Journal to see the 2012 and 2013 Statistics and new papers included at http://www.cmsim.eu and to submit a paper for publication.

The forthcoming International Conference (CHAOS2014) on Chaotic Modeling, Simulation and Applications will take place in VIP Executive Zurique Hotel, Lisbon, Portugal (7-10 June 2014).

The general topics and the special sessions proposed for the Conference include but are not limited to:

Chaos and Nonlinear Dynamics, Stochastic Chaos, Chemical Chaos, Data Analysis and Chaos, Hydrodynamics, Turbulence and Plasmas, Optics and Chaos, Chaotic Oscillations and Circuits, Chaos in Climate Dynamics, Geophysical Flows, Biology and Chaos, Neurophysiology and Chaos, Hamiltonian Systems, Chaos in Astronomy and Astrophysics, Chaos and Solitons, Microand Nano- Electro-Mechanical Systems, Neural Networks and Chaos, Ecology and Economy.

The publications of the conference include: 1. The Book of Abstracts in Electronic and in Paper form 2. Electronic Proceedings in CD and in the web in a permanent website 3. Publication in the Journal of "Chaotic Modeling and Simulation 4. Book Publications devoted to CHAOS2014 International Conference

For more information and Abstract/Paper submission and Special Session Proposals please visit the conference website at: http://www.cmsim.org or send email to the Conference Secretariat at: secretar@cmsim.org

Looking forward to welcoming you in Lisbon,

With best regards, Prof. Christos H. Skiadas Conference Co-Chair (http://www.cmsim.net) Email: skiadas@cmsim.net -----

Subject: Postdoc position in Imaging Science, University College London
From: "Betcke, Marta" <m.betcke@ucl.ac.uk>
Date: 1/9/2014 4:59 AM

Applications are invited for a postdoctoral Research Associate in Imaging Science to work with Prof. S. Arridge, Dr. M. Betcke and Dr. B. Cox, to develop novel spatio-temporal modelling and reconstruction methods for dynamic high-resolution photoacoustic tomography (PAT). The advertised post is a part of a large interdisciplinary group, based in the UCL Centre for Inverse Problems, the UCL Centre for Medical Imaging Computing, and the departments of Computer Science and Medical Physics & Bioengineering researching new instrumentation and algorithms for the emerging field of Imaging from Coupled Physics.

The Research Associate will contribute to the development of novel spatial temporal analysis methods including compressed sensing, generalised linear models, and state space estimation. A strong background in mathematics, scientific computing or related areas is required. In particular, candidates should have experience with dynamic imaging from undersampled data and inverse problems. Software development experience in a high level programming language and knowledge of Matlab are essential.

The post is funded until 31 December 2015 in the first instance.

Informal enquiries may be addressed to Prof. Simon Arridge, tel: +44(0)20 7679 3714, email: s.arridge@cs.ucl.ac.uk or Dr Marta Betcke, tel: +44(0)20 7679 4355, email: m.betcke@ucl.ac.uk or Dr Ben Cox, tel: +44 (0)20 7679 0292, email b.cox@ucl.ac.uk

Further details can be found at https://atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=5041178&ownertype=fair& jcode=1392111

The closing date for the applications is 24 Feb 2014.

Submitted by: Dr Marta M. Betcke Lecturer in Dept. Computer Science, University College London Gower Street, WC1E 6BT London, UK Email: m.betcke@ucl.ac.uk Tel: +44(0)20 7679 4355

Subject: 30th Anniversary of Inverse Problems From: Leanne Mullen <Leanne.Mullen@iop.org> Date: 1/23/2014

Inverse Problems is celebrating its 30th year

Inverse Problems was launched in 1985. To mark the 30th anniversary of the launch of the journal, we have set up a website for readers to find out more about the journal, its history, and our upcoming conference http://ipta2014.iopconfs.org/

Our collection of the Top 30 cited Inverse Problems papers -- found at http://iopscience.iop.org/0266-5611/page/top-30-cited -- is also now free to read until the end of March 2014.

Visit our 30th anniversary webpage at http://iopscience.iop.org/0266-5611/page/30th-anniversary

Submitted by: Leanne Mullen Institute of Physics, 76 Portland Place, London W1B 1NT

Subject: Inverse Problems Special Issue From: Leanne Mullen <Leanne.Mullen@iop.org> Date: 1/23/2014

Inverse Problems Special Issue:

Inverse Problems is pleased to announce the 2014 special issue entitled 'Bayesian methods in inverse problems' guest edited by Daniela Calvetti and Erkki Somersalo (Case Western Reserve University) and Jari Kaipio (University of Auckland and University of Eastern Finland).

We invite you to submit your manuscript via http://mc04.manuscriptcentral.com/ip-iop.

The closing date for submissions is 3 March 2014.

Submitted by: Leanne Mullen Institute of Physics, 76 Portland Place, London W1B 1NT

Subject: Contents, Inverse Problems in Science and Engineering
From: "Gray, Helen" <Helen.Gray@tandf.co.uk>
Date: 1/23/2014

Inverse Problems in Science and Engineering Jan 2014 Vol 22, Issue 1 Table of Contents

Special Issue: Proceedings of the 6th International Conference "Inverse Problems: Modeling and Simulation", 21-26 May 2012, Antalya, Turkey

Foreword Alemdar Hasanoglu (Hasanov) & Daniel Lesnic Guest Editors

Some uniqueness theorems for inverse spacewise dependent source problems in nonlinear PDEs M. Slodicka

Monotonicity of error of regularized solution and its use for parameter choice Uno Hämarik, Urve Kangro, Reimo Palm, Toomas Raus & Ulrich Tautenhahn

Sparse 3D reconstructions in electrical impedance tomography using real data Matthias Gehre, Tobias Kluth, Cristiana Sebu & Peter Maass

An alternating iterative procedure for the Cauchy problem for the Helmholtz equation F. Berntsson, V.A. Kozlov, L. Mpinganzima & B.O. Turesson An inverse geometry problem for a one-dimensional heat equation: advances with complex temperatures Jean-Claude Jolly, Laetitia Perez & Laurent Autrique

Online power transformer diagnostics using multiple modes of microwave radiation to reconstruct winding conductor locations M. Dalarsson, A. Motevasselian & M. Norgren

An approach to numerical solution of some inverse problems for parabolic equations K.R. Aida-zade & A.B. Rahimov

The method of fundamental solutions for the two-dimensional inverse Stefan problem B. Tomas Johansson, Daniel Lesnic & Thomas Reeve

On the use of an integral equation approach for the numerical solution of a Cauchy problem for Laplace equation in a doubly connected planar domain Roman Chapko, B. Tomas Johansson & Yuriy Savka

Runge-Kutta type regularization method for inversion of spheroidal particle distribution from limited optical data C. Böckmann & L. Osterloh

Simultaneous determination of time-varying strength and location of a heating source in a three-dimensional domain Sara Beddiaf, Laetitia Perez, Laurent Autrique & Jean-Claude Jolly

Numerical reconstruction of an inhomogeneity in an elliptic equation B. Bin-Mohsin & D. Lesnic

Combined energy method and regularization to solve the Cauchy problem for the heat equation T.N. Baranger, S. Andrieux & R. Rischette

Inverse Problems in Science and Engineering, Vol. 22, No. 1, 02 Jan 2014 is now available on Taylor & Francis Online (www.tandfonline.com/gipe)

Submitted by:, Helen Gray - Publishing Editor Mathematics, Statistics & History of Science, Taylor & Francis Group. 4 Park Square, Milton Park, Abingdon, Oxon, OX14 4RN, UK. Tel: +44 (20) 755 19435 Web: www.tandfonline.com e-mail: helen.gray@tandf.co.uk

Subject: Inverse Problems, Volume 30, Number 2, February 2014
From: <custserv@iop.org>
Date: 1/28/2014

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Inverse anisotropic conductivity from internal current densities Guillaume Bal, Chenxi Guo, and François Monard

Reconstruction from blind experimental data for an inverse problem for a hyperbolic equation Larisa Beilina, Nguyen Trung Thành, Michael V Klibanov, and Michael A Fiddy

Traffic data reconstruction based on Markov random field modeling

Shun Kataoka, Muneki Yasuda, Cyril Furtlehner, and Kazuyuki Tanaka

Numerical identification of a nonlinear diffusion law via regularization in Hilbert scales Herbert Egger, Jan-Frederik Pietschmann, and Matthias Schlottbom

Local inversions in ultrasound-modulated optical tomography Guillaume Bal, and Shari Moskow

Inverse source problem and null controllability for multidimensional parabolic operators of Grushin type K Beauchard, P Cannarsa, and M Yamamoto

Estimating the division rate of the growth-fragmentation equation with a self-similar kernel Thibault Bourgeron, Marie Doumic, and Miguel Escobedo

This issue is available at: http://iopscience.iop.org/0266-5611/30/2/email-alert/1138567941 ----- end -----