Contents

IPNet Digest Volume 20, Number 01 January 31, 2013

Today's Editor:

Patricia K. Lamm, Michigan State University

Today's Topics:

Submissions for IPNet Digest:

Mail to ipnet-digest@math.msu.edu

Information about IPNet:

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

From: Olivier Fudym <fudym@mines-albi.fr>
Date: Mon, 14 Jan 2013
Subject: IPDO-2013 Special announcement

Dear Colleagues,

Abstract submission for IPDO-2013 is still possible during the next few days (beyond the stated deadline given below)!

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SPECIAL ANNOUNCEMENT

Download the Last Call for Abstracts
http://ipdo2013.congres-scientifique.com

Objectives

IPDO Symposium's main objectives are to bring the three communities of researchers in the fields of inverse problems, design theory, and optimization together and provide a common forum for presenting different applications, problems, and solution strategy concepts. Hence, IPDO Symposium is a privileged place for scientific exchanges relating the measurement and theory approaches through the use of suitable optimization algorithms.

Abstracts and papers submission

Please submit a two-page abstract in pdf format via the symposium website (download Template)

IMPORTANT DATES **** see the note at the beginning of this message ****

January 31, 2012 deadline for submission of two-page abstracts
February 8, 2013 informing about acceptability of abstracts
April 15, 2013 deadline for submission of full eight-page papers
May 15, 2013 deadline for early registration

Accommodation

Low cost lodging opportunities in the student houses on the campus are proposed for up to 25 PhD students. Total cost is 100€ per student from Monday to Saturday including 5 nights and 4 breakfasts. Reservations of these studio apartments (one student per studio apartment) should be requested during online registration and will be attributed in the order of online registration.

Plenary and keynote lectures

Prof. Alemdar Hasanoglu (Hasanov) - Izmir University, Turkey
"Inverse source problems related to vibrating cantilevered beam, based on boundary or/and final data measurements"

Prof. Alfred K. Louis - Saarland University, Saarbru?cken, Germany
"Feature Reconstruction in Tomography"

Prof. Carlo Poloni - ESTECO, Trieste, Italy
"Inverse Problems and Design Optimization: a multidisciplinary industrial perspective"

Prof. Eduardo Souza de Cursi - INSA - Rouen, France
"Uncertainty Quantification in Numerical Optimization"

Prof. I. Elishakof - Florida Atlantic University, U.S.A.
"Recent developments in mechanics of structures with uncertainties"

Prof. Patrick Thiran - EPFL, Lausanne, Switzerland
"Locating the Source of Diffusion in Large-Scale Networks"

Prof. Vassili Toropov - University of Leeds, UK
"Aerospace applications of multidisciplinary optimization"

Contact information
Olivier Fudym
Tel. +33 (0) 5 63493024
e-mail: olivier.fudym@mines-albi.fr

From: "Woodbury, Keith" <keith.woodbury@ua.edu>
Date: Mon, 14 Jan 2013 08:02:31 -0600

Subject: Call for papers: Inverse Problems and Optimization in Heat Transfer

ASME 2013 International Mechanical Engineering Congress & Exposition
November 15-21, Manchester Grand Hyatt, San Diego CA

Call for Papers: Inverse Problems and Optimization in Heat Transfer

The 2013 ASME IMECE is a unique opportunity to expand international cooperation, understanding, and to promote multidisciplinary research in heat transfer. The ASME Heat Transfer Division K-6 and K-20 committees invite authors to participate in the topical area of Inverse Problems and Optimization in Heat Transfer.

Papers are solicited from all areas of inverse problems in heat transfer, with a focus on inverse and optimal design of heat transfer systems and inverse analysis of experimental data. Topics of interest include:

* Mathematical aspects and techniques for inverse analysis and optimization
* Optimal design of heat transfer devices
* Inverse multi-mode heat transfer problems
* Boundary and initial condition reconstruction
* Parameter estimation
* Imaging and tomography
* Remote sensing
* Design of experiments

Submit your 400-word text-only abstract to
http://www.asmeconferences.org/Congress2013/
under Track 9 (Heat Transfer and Thermal Engineering) and Topic 9-17 (Computational Heat Transfer).
Please indicate "Inverse Analysis and Optimization" prominently on the abstract.

Publication Schedule:
Abstract Deadline: February 7th, 2013
First Draft: April 15th, 2013
Final Draft: July 29th, 2013

Session Organizers:
Keith Woodbury, University of Alabama, keith.woodbury@ua.edu
Kyle Daun, University of Waterloo, kjdaun@uwaterloo.ca

From: Uno Hamerik <Uno.Hamarik@ut.ee>
Date: Mon, 28 Jan 2013
Subject: Conference: Mathematical modelling and analysis

The 18th International Conference "Mathematical Modelling and Analysis"
(MMA2013) and the 4th International Conference "Approximation Methods and
Orthogonal Expansions (AMOE2013)

May 27 - 30, 2013, Tartu, Estonia

http://www.ut.ee/mma-amoe2013/

The conference is dedicated to the 75^th birthday of Professor Gennadi

Vainikko

Conference topics:
 * Modelling and Analysis ofProblems of Mathematical Physics and Engineering
 * Approximation Methods for Differential, Integral and Operator Equations
 * Orthogonal Expansions, Wavelets and Splines
 * Singular Problems
 * Inverse and Ill-Posed Problems

Confirmed plenary speakers:

Hermann Brunner (Hong Kong Baptist University, China)
Raimondas Ciegis (Vilnius Gediminas Technical Univ, Lithuania)

Zdzislaw Jackiewicz (Arizona State University, USA)
Barbara Kaltenbacher (University of Klagenfurt, Austria)

Rainer Kress (University of G=F6ttingen, Germany)
M. Zuhair Nashed (University of Central Florida, USA)

Helmut Neunzert (Fraunhofer Institute, Kaiserslautern, Germany)
Sergei Pereverzyev (RICAM, Linz, Austria)

Ian H. Sloan (University of New South Wales, Sydney, Australia)
Gennadi Vainikko (University of Tartu, Estonia)

Deadlines:

Registration and abstract submission: March 15, 2013

Notification of acceptance: March 31, 2013

From: "Prof. Dr. Thomas Schuster" <thomas.schuster@num.uni-sb.de>
Date: Mon, 28 Jan 2013
Subject: Position advertisement

Please see below the advertisement for an open position for a PhD
student in my working group (research subject: inverse problems in
elasticity).

http://www.math.uni-sb.de/ag/schuster/joomla/index.php/de/stellenausschreibungen

Submitted by: Prof. Dr. Thomas Schuster
Professur für Numerische Mathematik
Universität des Saarlandes / FR 6.1 Mathematik
Campus, Geb. E2 4 / D-66123 Saarbrücken
Tel.: +49 (0)681 302 57425 FAX: +49 (0)681 302 3046
email: thomas.schuster@num.uni-sb.de
web: http://www.math.uni-sb.de/ag/schuster/

From: <custserv@iop.org>

Date: Fri, 28 Dec 2012
Subject: Inverse Problems, Volume 29, Number 1, January 2013

Inverse Problems January 2013 Vol. 29, Number 1
Table of Contents

From: "noreply@degruyter.com" <noreply@degruyter.com>
Date: Thu, 13 Dec 2012 23:07:24
Subject: Table of Contents 'Journal of Inverse and Ill-Posed Problems'

Journal of Inverse and Ill-Posed Problems Dec. 2012 Vol. 20, Issue 5-6
Table of Contents

Regularization for ill-posed parabolic evolution problems
Fury, Matthew A.

Satisfier function in Ritz–Galerkin method for the identification of a time-dependent diffusivity
Yousefi, S. A. / Lesnic, Daniel / Barikbin, Zahra

On some identification problem for source function to one semievolutionary system
Belov, Yuri Y. / Kopylova, Vera G.

Regularization of backward parabolic equations in Banach spaces
Hào, Dinh Nho / Duc, Nguyen Van

On the existence of global saturation for spectral regularization methods with optimal qualification
Mazzieri, Gisela L. / Spies, Ruben D. / Temperini, Karina G.

Inverse determination of unsteady temperatures and heat fluxes on inaccessible boundaries Dennis, Brian H. / Dulikravich, George S.

Well-posedness of the Cauchy problem to a nonlinear magnetoelastic system in 1-D periodic media
Neves, Wladimir / Priimenko, Viatcheslav / Vishnevskii, Mikhail

A family of rules for the choice of the regularization parameter in the Lavrentiev method in the case of rough estimate of the noise level of the data
Hämarik, Uno / Palm, Reimo / Raus, Toomas

Inverse problems for second-order differential pencils with Dirichlet boundary conditions Buterin, Sergey A. / Yurko, Vjacheslav A.

From: "George A Anastassiou (ganastss)" <ganastss@gmail.com>
Date: Thu, 24 Jan 2013 11:14:23 -0600
Subject: Contents, Journal of Applied Functional Analysis

Please see the Table of Contents for the Journal of Applied Functional Analysis, Vol. 8, 2013:

http://www.eudoxuspress.com/images/TOC-JAFA-2013.pdf
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IPNet Digest Volume 20, Number 02 February 28, 2013

Today's Editor:

Patricia K. Lamm, Michigan State University

Today's Topics:

Submissions for IPNet Digest:

Mail to ipnet-digest@math.msu.edu

Information about IPNet:

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

From: Qiyu Sun <Qiyu.Sun@ucf.edu>
Subject: Conference "Computational Analysis of Inverse Problems and Partial Differential Equations" at Orlando, May 9—11, 2013
Date: 2/2/2013

The international conference "Computational Analysis of Inverse Problems and Partial Differential Equations", dedicated to John Cannon and Zuhair Nashed, will be held in May 9—11, 2013 at the University of Central Florida, Orlando, Florida, USA.

You are cordially invited to participate in the conference. The theme of the conference is on computation and analysis of inverse problems and partial differential equations. The aim of the conference is to bring together top experts from USA and overseas to disseminate the most recent progress on Inverse Problems and PDE.

The organizers are Yanping Lin, Piotr Mikusinski, Yuanwei Qi, Qiyu Sun, Alexandru Tamasan, Hongming Yin and Jiongmin Yong.

Registration, title and abstracts of your presentation should be sent to Qiyu Sun (qiyu.sun@ucf.edu). The deadline for the registration is the last weekend of March (March 30 2013), and the deadline for title and abstract is the first weekend of April (April 6, 2013). However, it will help greatly with our planning if you can let us know in advance of that deadline if you plan to come.

Travel support is available, pending the funding approval. Priority is given to students, postdocs and young researchers. Participants who wish to apply for travel support should submit your application with your registration by March 30, 2013.

For further information, please visit the conference webpage:
http://math.cos.ucf.edu/~inverse

From: Marcos Aurelio Capistran <marcos@cimat.mx>
Subject: Workshop on stat. and comp. methods for inverse problems,
Guanajuato, Mexico, August 2013
Date: 2/5/2013

Call for abstracts for a workshop on statistical and computational methods for inverse problems arising in ordinary, stochastic and partial differential equations. The meeting will be held at CIMAT, in Guanajuato, Mexico, August 1st-3rd of 2013. The workshop is a satellite conference to the Congress of the Americas. It is an activity of the international year of statistics.

Please visit the website for further information:

http://www.cimat.mx/Eventos/SCMIP13/

Submitted by: Marcos Aurelio Capistrán Ocampo
CIMAT / A. P. 402 / Jalisco S/N, Valenciana
Guanajuato, GTO 36240
Tel: (473) 73 2 71 55 Ext. 49640

From: Jon Woolley <j.w.woolley@gmail.com>
Subject: Abstract Deadline Extended: Inverse Problems Symposium 2013
Date: 2/11/2013

2013 Inverse Problems Symposium - Abstract Deadline Extended

Dear Inverse Problems Researchers and Instructors,

The abstract deadline has been extended for the 2013 Inverse Problems Symposium that will be held June 9-11 in Huntsville, Alabama. This symposium is the 26th in the series of national and international meetings on Inverse Problems that were initiated at MSU in 1988 by Dr. James Beck. The last symposia were held at the University of Central Florida and Michigan State University in 2011 and 2012, respectively. The 2013 symposium in Huntsville, Alabama will retain the single session format of these symposia, and will have sessions addressing both the theoretical and applied aspects of inverse problems. We are actively seeking session organizers, so please let us know if you are interested.

The overall schedule for 2013 will be similar to that in 2012:

Sunday June 9:
15:00-17:00 Dr. Cara Brooks, tutorial on local regularization methods for solving inverse problems
Evening: Informal dinner on our own

Monday, June 10:
8:00-17:00 Oral and Poster Presentations. Breakfast and lunch provided.
19:00 Symposium Banquet at the U.S. Space and Rocket Center

Tuesday, June 11:
8:00-17:00 Oral presentations. Breakfast and lunch provided.
17:00 Conclusion

Early registration is available through April 30, 2013. The early registration fee is $200 for regular registration and $150 for student registration. After April 30, the registration fee will go up to $250/$175 regular/student. The registration fee covers Monday/Tuesday continental breakfast, lunch, breaks, Monday banquet, and CD.

We are interested in a wide range of topics in engineering, agriculture, natural sciences, mathematics, statistics, etc. A written paper is not required and the papers will not be subject to copyright. The abstracts should be submitted before March 15, 2013. The program is being developed. On-line registration and submission will begin by December 1, 2012. The website can be found at this address:

www.inverseproblems2013.org

All the best,
Jon Woolley

From: Simon ARRIDGE <S.Arridge@cs.ucl.ac.uk>
Subject: Positions in Inverse Problems
Date: 2/5/2013

Positions available:

Inverse Problems in Statistics :
https://atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=5041178&ownertype=fair&jcode=1302510

Inverse Problems in Computer Science:
https://atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=5041178&ownertype=fair&jcode=1307990

Best Regards,
Simon R. Arridge,PhD.,F.InstP. University College London (UCL)
Professor of Image Processing Department of Computer Science
Visiting Professor of Mathematics Department of Mathematics
Tel. +44-(0)20-7679-2000 (ext 33714) Room No. 3.05
Tel. +44-(0)20-7679-3714 (direct) Engineering Front Building
Fax +44-(0)20-7387-1397 London WC1E 6BT
E-mail: S.Arridge@cs.ucl.ac.uk United Kingdom
WWW home page - http://www.cs.ucl.ac.uk/staff/S.Arridge

From: Kim Knudsen <kiknu@dtu.dk>
Subject: Assistant Professor in Computational Reconstruction Algorithms,
Technical Univ. of Denmark

Date: 2/18/2013 3:19 AM

DTU Physics and DTU Compute at the Technical University of Denmark invite applications for a position as Assistant Professor in Computational Reconstruction Algorithms. The position is available from June 1, 2013. The position is shared between the two departments and is associated with a newly established 3D Imaging Initiative at DTU. The assistant professor will be part of a team that develops

computational reconstruction algorithms in multi-dimensional space for materials characterization, using data from large-scale measurement facilities such as synchrotrons, neutron sources and free electron lasers. Key elements of this work are the formulation of the underlying mathematical models and the utilization of large data sets for immediate applicability in materials physics studies. The Assistant Professor is expected to take part in teaching activities at both departments.

The candidate must demonstrate a strong background in mathematical/physical modeling and scientific computing, and must be able to work across the disciplines. Good communication skills are required. For more details, see: http://www.job.dtu.dk/?guid=9e41c50f-290c-4310-b921-f093600186b9

Applications must be written in English and submitted online via the above home page by March 31, 2013.

More Information can be obtained from

Professor Per Christian Hansen, DTU Compute; pch@imm.dtu.dk
Senior Researcher Søren Schmidt, DTU physics; ssch@fysik.dtu.dk

Best wishes,
Kim

Submitted by: Kim Knudsen, Lektor, DTU Compute
Danmarks Tekniske Universitet
http://www.dtu.dk/images/DTU_email_logo_01.gif
Institut for Matematik og Computer Science
Matematiktorvet
Bygning 303 B / 2800 Kgs. Lyngby
Direkte telefon 45253026 / k.knudsen@mat.dtu.dk
www.mat.dtu.dk/

From: Leanne Mullen <Leanne.Mullen@iop.org>
Subject: Inverse Problems Highlights Collection
Date: 2/12/2013

Inverse Problems 2012 Highlights Collection

The Editorial Board have selected their highlights from Inverse Problems in 2012
http://iopscience.iop.org/0266-5611/page/Highlights%20of%202012

This is intended not as a list of the 'best' articles, but as an interesting and stimulating reading list. Articles were selected for many reasons, some contain outstanding research and breakthroughs, some may have an especially clear exposition and are beautifully presented, others are instructive, containing results and tools useful to many readers. Whether you are reading these articles for the first time or from renewed interest, we very much hope that you will enjoy reading them.

The journal homepage also features exciting short news stories on recently published papers called Insights see http://iopscience.iop.org/0266-5611/labtalk/1.
Further information on how to read, write for or subscribe to Inverse Problems can be found on the homepage http://iopscience.iop.org/0266-5611 or you can e-mail us at ip@iop.org.

Submitted by: Leanne Mullen

Institute of Physics. Registered charity no. 293851 (England & Wales)
and SCO40092 (Scotland)
Registered Office: 76 Portland Place, London W1B 1NT

From: <custserv@iop.org>
Subject: Inverse Problems, Volume 29, Number 2, February 2013
Date: 2/4/2013

Inverse Problems February 2013 Volume 29, Number 2
Table of Contents

Martin Burger, Jens Flemming, and Bernd Hofmann

Thermoacoustic tomography with an arbitrary elliptic operator
Michael V Klibanov

A contrast source inversion method in the wavelet domain
Maokun Li, Og(uz Semerci, and Aria Abubakar

Robust imaging of localized scatterers using the singular value decomposition and l1 minimization A Chai, M Moscoso, and G Papanicolaou

On the use of the linear sampling method to identify cracks in elastic waveguides
L Bourgeois and E Lunéville

Corrigendum: The direct and inverse scattering problems for partially coated obstacles Fioralba Cakoni, David Colton, and Peter Monk

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From: "noreply@degruyter.com" <noreply@degruyter.com>
Subject: Table of Contents 'Journal of Inverse and Ill-Posed Problems'
Date: 2/5/2013

Journal of Inverse and Ill-Posed Problems Feb 2013 Volume 21, Issue 1
Table of Contents

Data regularization using Gaussian beams decomposition and sparse norms
Wang, Yanfei / Liu, Peng / Li, Zhenhua / Sun, Tao / Yang, Changchun / Zheng, Qingsheng

Material parameter estimation and hypothesis testing on a 1D viscoelastic stenosis model: Methodology
Banks, H. Thomas / Hu, Shuhua / Kenz, Zackary R. / Kruse, Carola / Shaw, Simon / Whiteman, John R. / Brewin, Mark P. / Greenwald, Steve E. / Birch, Malcolm J.

The use of statistical tests to calibrate the normal SABR model
Fatone, Lorella / Mariani, Francesca / Recchioni, Maria Cristina / Zirilli, Francesco

Unique determination of potentials and semilinear terms of semilinear elliptic equations from partial Cauchy data Imanuvilov, Oleg / Yamamoto, Masahiro

Irregular nonlinear operator equations: Tikhonov's regularization and iterative approximation Vasin, Vladimir

On a multidimensional integral equation with data supported by low-dimensional analytic manifolds
Kokurin, Mikhali Y.

Inverse problem for elliptic equation in a Banach space with Bitsadze–Samarsky boundary value conditions Orlovsky, Dmitry G.

Certain problems of synchronization theory
Aisagaliev, Serikbai A. / Kalimoldayev, Maxat N.

From: Romas Baronas <romas.baronas@mif.vu.lt>

Subject: Table of Contents, Nonlinear Analysis: Modelling and Control
Date: 2/2013 7:05 AM

Nonlinear Analysis: Modelling and Control 2013 Volume 18, Number 1
Table of Contents

For a paper submission, please refer to http://www.mii.lt/NA/
A free on-line edition is available at: http://www.mii.lt/NA/issues.htm

Submitted by: Dr. Romas Baronas, Deputy-Editor-in-Chief,
Nonlinear Analysis: Modelling and Control
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IPNet Digest Volume 20, Number 03 March 31, 2013

Today's Editor:

Patricia K. Lamm, Michigan State University

Today's Topics:

Submissions for IPNet Digest:

Mail to ipnet-digest@math.msu.edu

Information about IPNet:

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

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

Worshop: "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>
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/maths/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

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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IPNet Digest Volume 20, Number 04 May 1, 2013

Today's Editor:

Patricia K. Lamm, Michigan State University

Today's Topics:

Submissions for IPNet Digest:

Mail to ipnet-digest@math.msu.edu

Information about IPNet:

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

Subject: Open position for a W2-professorship (Associate Professor)
on Inverse Problems at the University of Wuerzburg, Germany
From: Petra Markert-Autsch <petra.markert-autsch@mathematik.uni-wuerzburg.de>
Date: 4/17/2013

The Chair of Scientific Computing at the University of Wuerzburg, Germany would like to announce a W2-professorship (Associate Professor) on Inverse Problems.

This is a permanent position for a Scholar of distinction in the area of scientific computing and inverse problems who complements the existing research profile of mathematics in Wuerzburg and actively participates to collaborative research projects with natural and engineering sciences and medicine.

A detailed description can be found under the following link:

http://www.mathematik.uni-wuerzburg.de/pdf/W2InvProb-Ausschreibung-1401.pdf

Submitted by:
Petra Markert-Autsch Sekretariat Lehrstuhl für Mathematik IX / Secretary Chair of Mathematics IX
(Wissenschaftliches Rechnen / Scientific Computing)
Prof. Dr. Alfio Borzi
Campus Hubland Nord / Emil-Fischer-Straße 30
97074 Würzburg, Germany
Tel. (0931) 31-85362 Fax: (0931) 31-81491 petra.markert-autsch@mathematik.uni-wuerzburg.de
www.mathematik.uni-wuerzburg.de/lmath09.html
Lehrstuhl IX SciComp http://www9.mathematik.uni-wuerzburg.de

Bürozeiten / Office Times: Mo.-Do. 9°° - 14°° Uhr

Subject: Postdoc Position, Imaging, University of Liverpool, UK
From: "Chen, Ke" <K.Chen@liverpool.ac.uk>
Date: 5/1/2013

Subject: Postdoc Position, Imaging, University of Liverpool, UK

Applications are invited from outstanding candidates to join the Department of Mathematical Sciences at the University of Liverpool for a three year post-doctoral position.

Candidates should have a PhD in Applied/Computational Mathematics and experience in the area of Numerical Optimisation and PDEs. Knowledge of variational models, convex analysis, imaging modelling and programming would be advantageous. Good written and verbal communication skills and a track record of publication in leading journals are essential.

The consortium of 4 UK Universities (Liverpool, Edinburgh, Durham and Heriot- Watt) was recently awarded a major research grant of 1.3 million by the EPSRC to undertake a multidisciplinary project entitled “A novel diagnostic tool: from structural health monitoring to tissue quality prediction”; three more posts will be advertised.

Further details, including salary and application forms, can be found at

http://www.liv.ac.uk/working/job_vacancies/research/r-582891/

The closing date for applications is May 24th. Informal enquiries can be made to Prof. Ke Chen (k.chen@liv.ac.uk / http://www.liv.ac.uk/cmit)

Subject: Inverse Problems: Radar Imaging Special Issue
From: Leanne Mullen <Leanne.Mullen@iop.org>
Date: 4/21/2013

Inverse Problems is excited to announce the publication of the Radar Imaging special issue.

Guest edited by Margaret Cheney and Brett Borden, this issue encompasses a plethora of techniques and research on radar imaging. The papers, prepared by leading researchers in mathematics, physics and engineering, cover target structure and composition, artefact mitigation, and moving targets.

http://iopscience.iop.org/0266-5611/29/5

We hope that you enjoy reading the issue and that it will stimulate further research.

Submitted by: Dr Leanne Mullen, Publishing Editor, Inverse Problems
IOP Publishing, Temple Circus, Temple Way, Bristol BS1 6HG
Tel: +44 (0)117 930 1842
E-mail: Leanne.Mullen@iop.org http://iopscience.iop.org/

Subject: Journal of Inverse and Ill-Posed Problems
From: "noreply@degruyter.com" <noreply@degruyter.com>
Date: 4/2/2013

Journal of Inverse and Ill-Posed Problems April 2013 Vol. 21, Issue 2
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Mail: info@deGruyter.com Internet: www.degruyter.com

Subject: Inverse Problems, Volume 29, Number 5, May 2013
From: <custserv@iop.org>
Date: 4/24/2013

Inverse Problems May 2013 Voume 29, Number 5
Table of Contents

Autofocus algorithm for synthetic aperture radar imaging with large curvilinear apertures
E Bleszynski, M Bleszynski, and T Jaroszewicz

Reduction of ionospheric distortions for spaceborne synthetic aperture radar with the help of image registration
Mikhail Gilman, Erick Smith, and Semyon Tsynkov

A multiscale approach to a synthetic aperture radar in dispersive random media Josselin Garnier and Knut Sølna

Resolution optimization with irregularly sampled Fourier data
Matthew Ferrara, Jason T Parker, and Margaret Cheney

Compressive radar with off-grid targets: a perturbation approach
Albert Fannjiang and Hsiao-Chieh Tseng

Multichannel synthetic aperture radar signatures and imaging of a moving target Jen King Jao and Ali Yegulalp

A 2D wavenumber domain phase model for ground moving vehicles in synthetic aperture radar imagery
Nicholas Marechal, Richard Dickinson, and Grant Karamyan

Motion estimation and imaging of complex scenes with synthetic aperture radar Liliana Borcea, Thomas Callaghan, and George Papanicolaou

Imaging moving objects from multiply scattered waves and multiple sensors
Analee Miranda and Margaret Cheney

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Subject: Table of Contents, Nonlinear Analysis: Modelling and Control
From: Romas Baronas <romas.baronas@mif.vu.lt>
Date: 4/29/2013

Nonlinear Analysis: Modelling and Control 2012 Vol. 17, No. 2
Table of Contents

Large deviations for weighted random sums
Aurelija Kasparaviciute and Leonas Saulis

A new family of fourth-order methods for multiple roots of nonlinear equations Baoqing Liu and Xiaojian Zhou

Soliton solution and conservation laws of the Zakharov equation in plasmas with power law nonlinearity
Richard Morris, Abdul Hamid Kara, and Anjan Biswas

Nonlinear generalized cyclic contractions in complete G-metric spaces and applications to integral equations
Hemant Kumar Nashine and Zoran Kadelburg

Detection of multiple changes in mean by sparse parameter estimation
Jiri Neubauer and Vitezslav Vesely

A predator-prey model with disease in prey
Md. Sabiar Rahman and Santabrata Chakravarty

Stability and absorbing set of parabolic chemotaxis model of Escherichia coli Salvatore Rionero and Maria Vitiello

Phenomenological model of bacterial aerotaxis with a negative feedback
Vladas Skakauskas, Pranas Katauskis, Remigijus Šimkus, and Feliksas Ivanauskas

Global dynamics of a delayed epidemic model with latency and relapse
Rui Xu

Submitted by: Dr. Romas Baronas, Deputy-Editor-in-Chief,
Nonlinear Analysis: Modelling and Control.
------- end ------- .

IPNet Digest Volume 20, Number 05 May 30, 2013

Today's Editor:

Patricia K. Lamm, Michigan State University

Today's Topics:

Submissions for IPNet Digest:

Mail to ipnet-digest@math.msu.edu

Information about IPNet:

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

Subject: Announcement of a summer school on inverse problems
From: Armin Lechleiter <lechleiter@math.uni-bremen.de>
Date: 5/2/2013

Franco-German Summer School on Inverse Problems and PDEs
University of Bremen, Germany, October 7-11, 2013

Dear Colleagues,

The Franco-German Summer School on Inverse Problems and PDEs takes place from October 7-11 at the University of Bremen, Germany. This event is generously supported by the Franco-German University, the French Embassy in Germany, the University of Bremen and INRIA Saclay.

The summer school considers recent advances in analytical and numerical treatments of inverse problems for PDEs. A particular emphasis will be put on non-linear, qualitative and stochastic inversion methods. The courses are designed for advanced Master students, PhD students and PostDocs in mathematics. A limited number of participants will also have the opportunity to present their research in dedicated sessions.

More information on the summer school, a detailed program, and an online registration for this event can be found at the web site

http://www.math.uni-bremen.de/zetem/ip-school2013

We would be pleased to welcome you or your students in October 2013 in Bremen!

Best wishes,

Houssem Haddar and Armin Lechleiter
Organizers of the summer school

Subject: Workshop on Numerical Analysis and Inverse Problems
From: Jiguang Sun <jiguangs@mtu.edu>
Date: 5/2/2013 3:34 PM

Copper Country Workshop on Numerical Analysis and Inverse Problems

Michigan Technological University, Houghton, Michigan
Aug. 12-14, 2013
http://www.math.mtu.edu/~jiguangs/Homepage_of_Jiguang_Sun/NAIS.html

The workshop intends to bring leading researchers to discuss the recent developments on numerical analysis, scientific computing, and inverse problems. It also seeks to build collaboration among the participants.

Contributed presentations are invited in areas consistent with the conference themes, which include but are not limited to inverse scattering problem, finite element method, discontinuous Galerkin method, imaging, regularization schemes, etc. Those interested in giving a contributed talk must submit a title and a brief abstract not to exceed one page by email to jiguangs@mtu.edu.

Abstract submission deadline: June 15, 2013
Notification of acceptance: June 30, 2013

Michigan Technological University is located in Houghton, Michigan. Houghton's summer climate tends to be especially pleasant, as hot temperatures are often moderated by the cool waters of the nearby Lake Superior. It is definitely one of the best places to stay in August.

Subject: International Conference IPDO 2013 - Only 10 days left to register with preferential rate !
From: "ipdo2013@congres-scientifique.com" <ipdo2013@congres-scientifique.com>
Date: 5/21/2013

Good afternoon,

If you haven't registered yet, we remind you that there are only 10 days left to benefit from the preferential rate to register for the IPDO 2013 Conference which will be held on June 26-28 2013, in Albi, France.

Save 50€ by registering before May, 31st 2013!

When planning your trip, take into consideration that by Thursday 27th of June we will have a social dinner at the beautiful Mauriac castle http://www.chateaudemauriac.com which is a XIVth century fortress.

Mr Carcaillet, Airbus, Head of Strategic Marketing, will give a lecture ">From A3XX to A380 – and from entry into service to 5 years later: design, achievements and perspectives" during the social dinner.

A special visit of the Airbus A380 final assembly line (FAL) in Toulouse is planned for 30 persons by friday 28 at 4 PM for one hour duration. Transportation from Albi to Toulouse will be provided, hence you could plan your return trip after this visit.

You are kindly asked to register for IPDO-2013 via the website http://ipdo2013.congres-scientifique.com/

If you aim to register for the Airbus visit, please contact Miss Chrystel Auriol-Alvarez: auriol@mines-albi.fr

Albi was classified as an UNESCO World Heritage Site, and since then the tourism activity has considerably increased, especially during the summer period. That is why it should better book your hotel room as soon as possible. Some rooms have been secured in several hotels in Albi and offer special rates for the attendees of the conference. Please mention IPDO-2013 during reservation.

Sincerly yours

On behalf of the Scientific Committee
Prof. Olivier Fudym
e-mail: olivier.fudym@mines-albi.fr

Subject: SIAM Conference on Imaging Science 2014
From: Fadil Santosa <santosa@umn.edu>
Date: 5/13/2013 11:32 AM

Dear All

The next SIAM Conference on Imaging Science will take place at Hong Kong Baptist University from May 12 to 14, 2014. The conference web site is
http://www.math.hkbu.edu.hk/SIAM-IS14/

You can find the detailed information about
- Call for Minisymposia
- Call for Minitutorials
- Call for Presentations
- Call for Posters

and the important deadlines.

We hope to see in in Hong Kong next year.

Fadil Santosa
for the SIAG officers and the organizing committee of IS14

Subject: International meeting on Novel Directions on Inverse Scattering honoring David Colton
From: Fioralba Cakoni <cakoni@math.udel.edu>
Date: 5/26/2013

Dear Colleagues,

We would like to bring to your attention the international meeting on Novel Directions in Inverse Scattering honoring David Colton which will take place at the University of Delaware, July 29-August 2, 2013. For more details see http://www.cmap.polytechnique.fr/~colton/

If you are interested in participating please go to the website of the Conference and register.

NSF funding is available for supporting participation of graduate students, postdocs, and young faculty. You can apply for financial support on the registration page.

We are looking forward to seeing you in Delaware.

The Organizing Committee
F. Cakoni, L. Borcea, H. Haddar and P. Monk

Submitted by: Fioralba Cakoni, Department of Mathematical Sciences
University of Delaware, Newark, Delaware 19716-2553
tel: 1 302 831 0592 fax: 1 302 831 4511
http://www.math.udel.edu/~cakoni/

Subject: New Book: Advances in Applied Mathematics and Approximation Theory
From: "George A Anastassiou (ganastss)" <ganastss@gmail.com>
Date: 5/21/2013

http://www.springer.com/mathematics/analysis/book/978-1-4614-6392-4

Advances in Applied Mathematics and
Approximation Theory
Contributions from AMAT 2012

Series: Springer Proceedings in Mathematics & Statistics, Vol. 41
Anastassiou, George A.; Duman, Oktay (Eds.)
2013, XIX, 486 p. 31 illus., 11 illus. in color.

Submitted by: George A. Anastassiou,Ph.D
Department of Mathematical Sciences
The University of Memphis, Memphis,TN 38152, USA

Subject: Table of Contents for Inverse Problems and Imaging
From: Liwei Ning <newsletter@aimsciences.org>
Date: 5/17/2013

Inverse Problems and Imaging (IPI) May 2013 Volume 7, Number 2
Table of Contents

http://www.aimsciences.org/journals/contentsListnew.jsp?pubID=601

A three-dimensional inverse gravimetry problem for ice with snow caps
Victor Isakov, Shingyu Leung and Jianliang Qian

Imaging acoustic obstacles by singular and hypersingular point sources
Jingzhi Li, Hongyu Liu, Hongpeng Sun and Jun Zou

Total variation and wavelet regularization of orientation distribution functions in diffusion MRI
Yuyuan Ouyang, Yunmei Chen and Ying Wu

Local singularity reconstruction from integrals over curves in R^3
Eric Todd Quinto and Hans Rullgård

Constructing continuous stationary covariances as limits of the second-order stochastic difference equations
Lassi Roininen, Petteri Piiroinen and Markku Lehtinen

Perfect pulse-compression coding via ARMA algorithms and unimodular transfer functions
Lassi Roininen and Markku S. Lehtinen

Submitted by: Liwei Ning, Editorial Manager
American Institute of Mathematical Sciences
Springfield, MO 65801 USA
Phone: 417-889-0336 Fax : 417-889-0336

Subject: Inverse Problems, Volume 29, Number 6, June 2013
From: <custserv@iop.org>
Date: 5/30/2013

Inverse Problems June 2013 Volume 29, Number 6
Table of Contents

A mathematical framework for inverse wave problems in heterogeneous media (OPEN ACCESS)
Kirk D Blazek, Christiaan Stolk and William W Symes

A novel filtering framework through Girsanov correction for the identification of nonlinear dynamical systems
Tara Raveendran, Saikat Sarkar, D Roy and R M Vasu

A projected iterative method based on integral equations for inverse heat conduction in domains with a cut
Roman Chapko, B Tomas Johansson and Vasyl Vavrychuk

Cormack-type inversion of attenuated Radon transform
A Puro and A Garin

Direct and inverse acoustic scattering by a mixed-type scatterer (FREE ARTICLE)

Andreas Kirsch and Xiaodong Liu

A stability result for a time-dependent potential in a cylindrical domain Patricia Gaitan and Yavar Kian

Reconstruction of the wave speed from transmission eigenvalues for the spherically symmetric variable-speed wave equation
Tuncay Aktosun and Vassilis G Papanicolaou

The harmonic polynomial method for solving the Cauchy problem connected with the Laplace equation
Deyue Zhang, Guimin Zhang and Enxi Zheng

Numerical analysis of the factorization method for EIT with a piecewise constant uncertain background Houssem Haddar and Giovanni Migliorati

Semi-local inversion of the geodesic ray transform in the hyperbolic plane Matias Courdurier and Mariel Saez

Sparse, adaptive Smolyak quadratures for Bayesian inverse problems
Claudia Schillings and Christoph Schwab

The definite non-uniqueness results for deterministic EEG and MEG data (FEATURED ARTICLE)
George Dassios and A S Fokas

An exact inversion formula for cone beam vector tomography
Alexander Katsevich and Thomas Schuster

Simultaneous inversion for the space-dependent diffusion coefficient and the fractional order in the time-fractional diffusion equation
Gongsheng Li, Dali Zhang, Xianzheng Jia and Masahiro Yamamoto

A linear regularization scheme for inverse problems with unbounded linear operators on Banach spaces Holger Kohr

Inexact Bregman iteration with an application to Poisson data reconstruction A Benfenati and V Ruggiero

A convergent blind deconvolution method for post-adaptive-optics astronomical imaging
M Prato, A La Camera, S Bonettini and M Bertero

Multi-parameter Tikhonov regularization with the l0 sparsity constraint
Wei Wang, Shuai Lu, Heng Mao and Jin Cheng

Uniqueness and reconstruction of an unknown semilinear term in a time-fractional reaction–diffusion equation
Yuri Luchko, William Rundell, Masahiro Yamamoto and Lihua Zuo

Rational approximations for tomographic reconstructions
Matthew Reynolds, Gregory Beylkin and Lucas Monzón

Erratum: Reconstruction of the wave speed from transmission eigenvalues for the spherically symmetric variable-speed wave equation
Tuncay Aktosun and Vassilis G Papanicolaou
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IPNet Digest Volume 20, Number 06 August 2, 2013

Today's Editor:
Patricia K. Lamm, Michigan State University
Today's Topics:
Call for Presentations: SIAM Conference on Imaging Science
Call for Nominations: Imaging Science Prize 2014
PhD Studentship: Hybrid Tomography for Conductivity Imaging, U. Edinburgh, UK
Call for Papers: Special CGO Issue of Inverse Problems and Imaging
Limited Free Access: High impact papers from AIMS
Table of Contents: Journal of Inverse and Ill-Posed Problems
Table of Contents: Inverse Problems
Table of Contents: Nonlinear Analysis, Modelling and Control
Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu
Information about IPNet:
http://www.math.msu.edu/ipnet

Subject: SIAM Conference on Imaging Science (IS14)
Call for Presentations Announcement

From: Kirsten Wilden <Wilden@siam.org>
Date: 7/23/2013

Conference Name: SIAM Conference on Imaging Science (IS14)
Location: Hong Kong Baptist University
Dates: May 12-14, 2014

Scientific Committee Co-chairs:
Barbara Kaltenbacher, University of Klagenfurt, Austria
Michael Ng, Hong Kong Baptist University, China
Fadil Santosa, University of Minnesota, USA

Scientific Committee Members:
Guillaume Bal, Columbia University, USA
Maitine Bergounioux, University of Orléans, France
Martin Burger, University of Münster, Germany
Yunmei Chen, University of Florida, USA
Gareth Funka-Lea, Siemens, USA
John Greer, National Geospatial Agency, USA
David Gu, State University of New York at Stony Brook, USA
Sung Ha Kang, Georgia Institute of Technology, USA
Aggelos Katsaggelos, Northwestern University, USA

Ron Kimmel, Technion, Israel
Patricia Lamm, Michigan State University, USA
Jean-Michel Morel, ENS Cachan, France
Adrian Nachman, University of Toronto, Canada

Invited Speakers:
Antonin Chambolle (Ecole Polytechnique, France)
Michael Elad (Technion, Israel)
Leo Grady (HeartFlow, USA)
Yi Ma (Microsoft Research Asia)
Carola-Bibiane Schönlieb (University of Cambridge, United Kingdom)
Rebecca Willett (Duke University, USA)

The Call for Presentations is available at:
http://www.math.hkbu.edu.hk/SIAM-IS14/Submission.html

Twitter hashtag: #SIAMIS14

Deadlines

30 September 2013:Minitutorial proposals
30 September 2013: Minisymposium proposals
30 October 2013: Abstracts for contributed and minisymposium speakers
30 October 2013: Abstracts for posters

For additional information, contact is14sub@math.hkbu.edu.hk

Subject: SIAM AG on Imaging Science Prize 2014: Call for nominations

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From: Christine De Mol <demol@ulb.ac.be>
Date: 7/22/2013 9:19 AM

Dear Colleagues,

Please note that the 2014 SIAM Activity Group on Imaging Science Prize (SIAG/IS Prize) will be awarded to the authors of the best paper, as determined by the prize committee, on mathematical and computational aspects of imaging. Imaging is broadly interpreted to include: image formation, inverse problems in imaging, image processing, image analysis, image interpretation and understanding, computer graphics, and visualization.

Candidate papers must be published in English, in a peer-reviewed journal, with a publication date in the period from January 1, 2009, through December 31, 2012.

The deadline for nominations is September 15, 2013.

The award will be presented at the SIAM Conference on Imaging Science (IS14), to be held May 12-14, 2014, in Hong Kong.

More details about the prize and the official call for nominations are available at
http://www.siam.org/prizes/sponsored/siagis.php
http://www.siam.org/prizes/nominations/nom_siag_is.php

Looking forward to receiving many nominations for outstanding papers.

Sincerely,

Christine De Mol
Chair, SIAM Activity Group on Imaging Science

Subject: PhD studentship in tomography at the University of Edinburgh, UK

From: Nick Polydorides <nick.polydorides@gmail.com>
Date: 7/30/2013

The School of Engineering at the University of Edinburgh offers a PhD studentship on hybrid tomography for conductivity imaging, under the supervision of Dr Nick Polydorides at the Institute of Digital Communications.

The project seeks to develop tomographic reconstruction algorithms for imaging the electrical conductivity of a body using measurements arising from complimentary sensing modalities. Important for many applications in biomedical imaging and industrial process tomography, this technology aims to yield noise-robust, quantitative images with improved spatial resolution, eradicating some of the shortcomings of electrical impedance tomography.

The selected candidate will develop mathematical models to simulate the physical measurements as well as image reconstruction algorithms for solving nonlinear inverse problems.

For further details please visit
http://www.findaphd.com/search/ProjectDetails.aspx?PJID=46188 or contact Nick Polydorides at nick.polydorides@gmail.com

Closing date: 30 September, 2013.

Subject: Inverse Problems and Imaging: CGO Special Issue Alert!

From: Sarah Hamilton <sarah.hamilton@helsinki.fi>
Date: 5/31/2013

Dear Fellow Inversionists,

I am writing to make you aware of a unique opportunity to contribute an article for a special issue of Inverse Problems and Imaging focused on Complex Geometrical Optics (CGO) solutions. On behalf of the Guest Editors (Samuli Siltanen, Kim Knudsen, Gunther Uhlmann, and myself), I would like to invite you to submit an article for publication in the special issue. Further information regarding the call for papers can be found below.

We look forward to hearing from you.

Sincerely,
Sarah Hamilton (on behalf of the Guest editors)

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Call for papers

Inverse Problems and Imaging:
Special Issue on Inverse Problems and Complex Geometrical Optics Solutions

Complex Geometrical Optics (CGO) solutions have, for more than two decades, played a large role in the rigorous analysis of nonlinear inverse problems, such as the Calderón problem. These solutions have led to new practical reconstruction algorithms. CGO solutions are now seen as valuable tools for providing a crucial connection between theoretical results and practical computational implementations.

The focus of the Special Issue is on new approaches to inverse problems based on CGO solutions. Both theoretical and computational papers are welcome. We would encourage theoretical papers to have a constructive approach, so that numerical teams would be able to pick up the approach as a basis of a new algorithm.

Examples of previous work in this direction, in view of the Calderón problem, include Sylvester-Uhlmann 1987, Nachman 1988 and 1996, Brown-Uhlmann 1997, Francini 2000, Astala-Päivärinta 2005 and all of their subsequent numerical implementations. The enclosure method and generalized probing also belong to the relevant category, and quite recently in the emerging field of hybrid inverse problems, CGO solutions have been useful in obtaining fundamental results.

We hope that this issue will provide experts with an update on the status of the field, as well as young researchers a self-contained resource to be used as a platform for new developments.

We warmly invite you to submit your manuscript by email to samuli.siltanen@helsinki.fi no later than November 30, 2013. The manuscripts will be peer-reviewed by two anonymous experts according to the usual high standards of Inverse Problems and Imaging.

We kindly ask you to distribute this call among all colleagues who might be interested in submitting their work to the Special Issue.

If you have any questions about the Special Issue, please feel free to contact any of us, serving as Guest Editors:

Sarah Hamilton
University of Helsinki, Finland
sarah.hamilton@helsinki.fi

Kim Knudsen
Technical University of Denmark
kiknu@dtu.dk

Samuli Siltanen
University of Helsinki, Finland
Samuli.Siltanen@helsinki.fi

Gunther Uhlmann
University of Washington, USA
gunther@math.washington.edu

Subject: High impact papers from AIMS made accessible

From: Susan Cummins <newsletter@aimsciences.org>
Date: 7/12/2013

American Institute of Mathematical Sciences

At the American Institute of Mathematical Sciences, we are pleased to have published contributions from all leading researchers in the fields, including 7 Fields Medalists: Jean Bourgain, Charles Fefferman, Elon Lindenstrauss, P.-L. Lions, Terence Tao, Cedric Villani and Shing-Tung Yau. For the next two months we are offering you the following

high impact papers access free. And please consider submitting your next articles to our journals at http://www.aimsciences.org.

Enjoy free access to these high impact papers until September 1st!

Two remarks on the generalised Korteweg de-Vries equation
Terence Tao

Interpolation by linear programming I
Charles Fefferman

Regularity of optimal transport and cut locus: From nonsmooth analysis to geometry to smooth analysis
Cedric Villani

On random Schrodinger operators on Z^2
Jean Bourgain

Continuity of admissible trajectories for state constraints control problems
M. Arisawa and P.-L. Lions

On measures invariant under diagonalizable actions: the Rank-One case and the general Low-Entropy method
Manfred Einsiedler and Elon Lindenstrauss

Nodal geometry of graphs on surfaces
Yong Lin, Gabor Lippner, Dan Mangoubi and Shing-Tung Yau

Global attractors for damped semilinear wave equations
John M. Ball

Transport in rotating fluids
Peter Constantin

Radial solutions to energy supercritical wave equations in odd dimensions
Carlos E. Kenig and Frank Merle

An introduction to migration-selection PDE models
Yuan Lou, Thomas Nagylaki and Wei-Ming Ni

Analysis on the junctions of domain walls
Luis A. Caffarelli and Fang Hua Lin

A case study in vanishing viscosity

Stefano Bianchini and Alberto Bressan

Mathematical strategies for filtering turbulent dynamical systems
Andrew J. Majda, John Harlim and Boris Gershgorin

Spectral theory and nonlinear partial differential equations: A survey
Wilhelm Schlag

AIMS 10th International Conference

The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications will be held July 7 - 11, 2014 in Madrid, Spain.

Subject: Table of Contents 'Journal of Inverse and Ill-Posed Problems'

From: "noreply@degruyter.com" <noreply@degruyter.com>
Date: 6/4/2013

Journal of Inverse and Ill-Posed Problems June 2013 Volume 21, Issue 3
Table of Contents

"Recent Progress in Regularization Theory" Minisymposium M5 of the 6-th International Conference "Inverse Problems: Modeling and Simulation"

TGV for diffusion tensors: A comparison of fidelity functions
Valkonen, Tuomo / Bredies, Kristian / Knoll, Florian

Variational inequalities and higher order convergence rates for Tikhonov regularisation on Banach spaces Grasmair, Markus

Variational smoothness assumptions in convergence rate theory—an overview
Flemming, Jens

On the smoothness and convexity of Besov spaces Kazimierski, Kamil S.

An H1-Kaczmarz reconstructor for atmospheric tomography
Eslitzbichler, Markus / Pechstein, Clemens / Ramlau, Ronny

A new cumulative wavefront reconstructor for the Shack–Hartmann sensor
Neubauer, Andreas

Subject: Inverse Problems, Volume 29, Number 8, August 2013

From: <custserv@iop.org>
Date: 7/31/2013

Inverse Problems August 2013 Volume 29, Number 8
Table of Contents

Tadayoshi Adachi, Yuko Fujiwara, and Atsuhide Ishida

The enclosure method for inverse obstacle scattering problems with dynamical data over a finite time interval: III. Sound-soft obstacle and bistatic data
Masaru Ikehata

Time reversal for radiative transport with applications to inverse and control problems
Sebastian Acosta

Subject: Table of Contents, Nonlinear Analysis: Modelling and Control

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From: Romas Baronas <romas.baronas@mif.vu.lt>
Date: 7/19/2013

Nonlinear Analysis: Modelling and Control 2012 Volume 17, Number 3
Table of Contents

Multiple cycles and the Bautin bifurcation in the Goodwin model of a class struggle
Giovanni Bella

Expansions in Appell polynomials of the convolutions of probability distributions
Algimantas Bikelis, Kazimieras Padvelskis

Multi-objective single agent stochastic search in non-dominated sorting genetic algorithm Algirdas Lancinskas, Pilar Martinez Ortigosa, Julius Žilinskas

Joint universality of the Riemann zeta-function and Lerch zeta-functions
Antanas Laurincikas, Renata Macaitiene.

Estimation of parameters of finite population L-statistics
Dalius Pumputis, Andrius Ciginas

Some new fixed point results in non-Archimedean fuzzy metric spaces
Peyman Salimi, Calogero Vetro, Pasquale Vetro

Triple-zero singularity of a Kaldor–Kalecki model of business cycles with delay
Xiaoqin P. Wu

Dynamic properties of the coupled Oregonator model with delay
Xiang Wu, Chunrui Zhang

A free on-line edition is available at: http://www.mii.lt/NA/

Submitted by: Dr. Romas Baronas, Deputy-Editor-in-Chief,
Nonlinear Analysis: Modelling and Control, http://www.mii.lt/NA/
------- end -------

IPNet Digest Volume 20, Number 07 September 1, 2013

Today's Editor: Patricia K. Lamm, Michigan State University

Today's Topics:
2014 International Conference on Inverse Problems in Engineering
Positions Offered at the Chair of Optimization and Inverse Problems
Table of Contents: Inverse Problems
Table of Contents: Journal of Inverse and Ill-Posed Problems
Submissions for IPNet Digest:
    Mail to ipnet-digest@math.msu.edu

Information about IPNet:
    http://www.math.msu.edu/ipnet

Subject: ICIPE 2014

From: "Woodbury, Keith" <keith.woodbury@ua.edu>
Date: 8/31/2013

CALL FOR ABSTRACTS

2014 International Conference on Inverse Problems in Engineering (2014 ICIPE)

Dear Author,

You are invited to submit an abstract for the 8th International Conference on Inverse Problems in Engineering (ICIPE2014).

Conference Website: http://www.icipe2014.org

The conference will be held on May 12-15, 2014, Cracow, Poland.

ICIPE2014 is the continuation of the conference series which began in Palm Coast, FL, USA, in 1993.

Prospective speakers are invited to submit a 2-page extended abstract through the conference website by September 28, 2013. Upon abstract acceptance, authors are encouraged to also submit a full paper for peer review by February 1, 2014. The full publication schedule can be found on the website or at the bottom of this e-mail message.

A set of contributed papers will be selected by the Scientific Committee for post-conference publications in the Special Issues of:

1. International Journal of Numerical Methods for Heat & Fluid Flow (IJNMHFF) and,

2. Computer Assisted Methods in Mechanics and Science (CAMES).

Additionally all Authors of papers presented at the conference are encouraged to submit full versions of their papers to

3. Inverse Problems in Science and Engineering (IPSE).

PAPER SUBMISSION

All papers submitted must be original, unpublished, and not submitted concurrently for publication elsewhere. Speakers desiring presentation only (no paper submission) may report on work from other publications, as they desire.

Contributions MUST be written and presented in English. Word and LaTeX template are available on the conference website. The final version of the paper must be submitted in the pdf file.

Timetable

- Abstract submission deadline: September 28, 2013
- Abstract acceptance notification: November 2, 2013
- Paper submission deadline: February 1, 2014
- Paper acceptance notification: March 15, 2014
- Final paper submission deadline: April 12, 2014
- Conference start: May 12, 2014

Contact

If you have any further queries, please do not to hesitate to contact us.

Organizer Email: icipe2014@icipe2014.org

You can also find out us on a Conference Facebook profile (ICIPE2014) or on a Twitter (@ICIPE2014).

We look forward to seeing you in Cracow,

Yours sincerely,

Ireneusz Szczygiel, Conference Chair
Andrzej J. Nowak, Conference Co-Chair
Keith A. Woodbury, ICIPE Steering Committee
Marek Rojczyk, Conference Secretary

Subject: Teaching / Research Assistant (m/f) (Postdoc / Ph.D. Student)
at the University of Stuttgart, Germany

From: Maria Wegner <maria.wegner@mathematik.uni-stuttgart.de>
Date: 8/12/2013

At the Chair of Optimization and Inverse Problems,
Department of Mathematics - IMNG, University of Stuttgart / Germany,

we offer the position of a

Teaching / Research Assistant (m/f)
(Postdoc / Ph.D. Student)

Start date 10/01/2013 or by agreement

Please see the job posting and contact details at http://www.mathematik.uni-stuttgart.de/fak8/imng/lehrstuhl/oip/index.en.html

(Please note that the deadline is 08/31/2013 but we consider applications until the position is filled.)

Submitted by: Maria Wegner, Secretary to Prof. Dr. Bastian von Harrach
Chair of Optimization and Inverse Problems, Department of Mathematics - IMNG
University of Stuttgart / Allmandring 5b / 70569 Stuttgart / Germany
Phone +49 711 685-68402 E-Mail: maria.wegner@mathematik.uni-stuttgart.de

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Subject: Inverse Problems, Volume 29, Number 7, July 2013

From: <custserv@iop.org>
Date: 7/2/2013

Inverse Problems July 2013 Volume 29, Number 7
Table of Contents

Acoustic inverse scattering using topological derivative of far-field measurements-based L2 cost functionals
Cédric Bellis, Marc Bonnet, and Fioralba Cakoni

Coefficient inverse problem for a fractional diffusion equation
Luc Miller, and Masahiro Yamamoto

Reduced-order model tracking and interpolation to solve PDE-based Bayesian inverse problems
Raphael Sternfels, and Christopher J Earls

Inverse backscattering Born approximation for a two-dimensional magnetic Schrödinger operator Valery Serov

Necessary conditions for variational regularization schemes
Dirk Lorenz, and Nadja Worliczek

Adaptive estimation of the density matrix in quantum homodyne tomography with noisy data
P Alquier, K Meziani, and G Peyré

Stability and regularization for determining sets of discrete Laplacian
Maru Guadie, and Eugenia Malinnikova

Issue online available at:
http://iopscience.iop.org/0266-5611/29/7/email-alert/1137387909

Subject: Table of Contents Alert 'Journal of Inverse and Ill-Posed Problems'

From: <noreply@degruyter.com>
Date: 8/9/2013

Journal of Inverse and Ill-Posed Problems August, 2013 Volume 21, Issue 4
Table of Contents

Carleman estimates for global uniqueness, stability and numerical methods for coefficient inverse problems Klibanov, Michael V.

Two-parameter discrepancy principle for combined projection and Tikhonov regularization of ill-posed problems Regin'ska, Teresa

A source identification problem in linear parabolic problems: A semigroup approach

Slodicka, Marián

Available online from De Gruyter Online:
http://www.degruyter.com/view/j/jip.2013.21.issue-4/issue-files/jip.2013.21.issue-4.xml
------- end -------

IPNet Digest Volume 20, Number 08 September 30, 2013

Today's Editor: Patricia K. Lamm, Michigan State University

Today's Topics:
Conference: Inverse Problems: Modeling and Simulation
Conference: Advances in Math. and Num. Analysis of Inverse Problems
Conference: Computational and Experimental Biomedical Sciences
Conference: Copper Mountain Conference on Iterative Methods
Conference: Spectral and High-Order Methods
Jobs: Four Posdoctoral Positions in Statistical Inverse Problems
Table of Contents: Journal of Inverse and Ill-Posed Problems
Table of Contents: Inverse Problems in Science and Engineering
Table of Contents: Inverse Problems
Table of Contents: Inverse Problems and Imaging
Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu
Information about IPNet:
http://www.math.msu.edu/ipnet

Subject: Inverse Problems: Modeling and Simulation

From: Alemdar Hasanov <alemdar.hasanoglu@izmir.edu.tr>
Date: 9/5/2013

THE SEVENTH INTERNATIONAL CONFERENCE
"INVERSE PROBLEMS: MODELING & SIMULATION"

http://www.ipms-conference.org

Lykia World Ölüdeniz Hotel, Fethiye – Turkey

Following the success of previous IPMS Conferences The Seventh International Conference "Inverse Problems: Modeling and Simulation" will be held during May 26 – 31, 2014, in one of the distinguished hotels of the Mediterranean Region, in the famous Lykia World Ölüdeniz Hotel, Fethiye, Turkey. The objective of this meeting is to be multidisciplinary and international, bringing together scientists working on various topics of inverse problems in diverse areas, such as mathematics, engineering, physics, geology, chemistry, biology, medicine, material science, nanotechnology, meteorology, finance, and many areas in the fields of biotechnology, genetics and ecology.

This Conference will be held under the auspices of Izmir University and also the leading international journals "Inverse Problems", "Inverse Problems and Imaging", "Journal of Inverse and Ill-Posed Problems" and "Inverse Problems in Science and Engineering". The main aim of the Conference is to bring together all classical and new inverse problems areas from various international scientific schools and to discuss new challenges of inverse problems in current interdisciplinary sciences.

Chair: A. Hasanoglu (Hasanov) (Izmir University, Turkey)

Co-Chairs: H.T. Banks, S.I. Kabanikhin, D. Lesnic, A.K. Louis

International Program Committee:

G. Dulikravich, A. El Badia, W. Freeden,, D. Gintides, A. Grünbaum, U. Hämarik, D.N. Hào, B. Hofmann, V. Isakov, A. A. Khan, F.J. Küçük, P. Maass, M. Z. Nashed, A. Neubauer, B. Nilsson, H.R.B. Orlande, L. Päivärinta, E.T. Quinto, V. G. Romanov, O. Scherzer, M. Slodicka, V. Vasin, A. Yagola, V. Yakhno, F. Zirilli

Main Topics: *Inverse Problems in: Electromagnetism, Tomography; Mechanics, Material Science, Heat and Mass Transfer, Chemistry, Biology, Medicine, Economics, Acoustics,Geophysics; Learning Theory; *Imaging; *Statistical and Probabilistic Methods; *Numerical Inversion Methods; *Identification in Nonlinear Differential Equations; *Regularization Methods;*Optimization; *Inverse Scattering and Time Reversal; *Determination of Boundary and Initial Conditions; *Computational; *Identifiability Concepts; *Spectral Inversion; *Data Analysis

Plenary Speakers

Alexander Bukhgeym, Inverse problems and integral geometry, Wichita State University, USA

Jens Flemming, Regularization of autoconvolution equations and other ill-posed problems of quadratic sturcture, Chemnitz University of Technology, Germany

Michael V. Klibanov, Approximate global convergence for coefficient inverse problems, University of North Carolina at Charlotte, USA
Roman Novikov, Inverse problems of quantum and acoustic scattering at fixed frequency, Ecole Polytechnique, France

Announced Minisymposia:

M1. Recent Developments in Inverse Problems and Tomography
(Dedicated to the 65th birthday of Professor Alfred K. Louis)

M2. Inverse Problems in Wave Phenomena, in Financial and Actuarial Applications (Dedicated to the 65th birthday of Professor Francesco Zirilli)

M3. Recent Developments in Inverse Coefficient and Source Problems (Dedicated to the 60th birthday of Professor Alemdar Hasanoglu Hasanov)

M4. Inverse Problems in Guides (Organizer: Y.V. Shestopalov, Karlstad University)

M5. Inverse Problems in Nonlinear PDEs (Organizer: M. Slodicka, Ghent University)

M6. Recent Developments in Regularization Techniques: Theory and Applications (Organizers: B. Hofmann, Chemnitz University of Technology; A. Neubauer, University of Linz)

M7. Regularization and parameter choice
(Organizers: U. Hämarik, T. Raus, University of Tartu; B. Kaltenbacher, Klagenfurt University)

M8. Inverse Source Problems (Organizers: A. El Badia, Univ. of Technology of Compiegne; D.Lesnic, University of Leeds)

M9. Analytical and Numerical Methods for InverseProblems
(Organizer: M. V. Klibanov, University of North Carolina at Charlotte)

M10. Inverse Problems and Imaging (Dedicated to the 60th anniversary of Professor Lassi Päivärinta)

M11: Inverse and Data Assimilation Problems in Geophysical Hydrodynamics: Theory and Applications (Organizers: V. Shutyaev, V. Agoshkov, V. Zalesny, Institute of Numerical Mathematics, RAS, Russia; R. Potthast, German Meteorogical Service DWD, Germany and University of Reading, UK)

M12: Multidimensional Ill-Posed Problems (Organizer: A. Yagola, Moscow State University,Russia)

M13: Inverse Problems in Tomography and Related Areas (Organizers: P. Maass, University of Bremen, Germany; E. T. Quinto, Tufts University, USA, todd.quinto@tufts.edu)

M14: Inverse Problems in Partial Differential Equations and Variational Inequalities (Organizers: Akhtar A. Khan, Rochester Institute of Technology, USA: M. Sama, Universidad Nacional de Educacin a

Distancia Madrid, Spain; C. Tammer, Martin-Luther-University of Halle-Wittenberg, Germany; F. Raciti, University of Catania, Italy)

Contact Address: Pinar Baris, (Ms), Department of Mathematics and Computer Sciences, Izmir University, Izmir – TURKEY;
E-mail: pinar.baris@izmir.edu.tr

Submitted by: Alemdar Hasanoglu (Hasanov)
Ph.D, Doctor of Physical and Mathematical Sciences
Home page: http://www.izmir.edu.tr/ahasanoglu/
Department of Mathematics and Computer Science
Izmir University
Gursel Aksel Bulvari, No:14, 35350, Uckuyular, Izmir - TURKEY

Subject: Conference "Advances in Mathematical and Numerical Analysis of Inverse Problems"

From: "michel cristofol (AMU)" <michel.cristofol@univ-amu.fr>
Date: 9/24/2013

The conference "Advances in Mathematical and Numerical Analysis of Inverse Problems" will be held at CIRM in Marseille, France from May 19th to 23th, 2014

See the web site of the conference :

http://invmars14.sciencesconf.org/

or

http://www.cirm.univ-mrs.fr/index.html/spip.php?rubrique2&EX=info_rencontre&annee=2014&id_renc=1038

Submitted by: Michel Cristofol

Subject: ICCEBS 2013 - Announce & Invitation

From: <iccebs@fe.up.pt>
Date: 9/6/2013

Dear Colleague,

We are pleased to announce the International Conference on Computational and Experimental Biomedical Sciences (ICCEBS2013 - www.fe.up.pt/~iccebs) in Ponta Delgada, S Miguel Island, Azores, October 20-22, 2013.

The use of more robust, affordable and efficient techniques and technologies with application in Biomedical Sciences is presently a subject of huge interest and demand, and ICCEBS is intended to be a privileged discussion forum to define their key stakeholders.

ICCEBS will bring together researchers from around the world representing several scientific fields related to Biomedical Sciences, including Engineering, Medicine, Biomechanics, Bioengineering, Biomaterials, Experimental Mechanics, Computer Sciences, Computational Mathematics, Hardware Developers and

Manufactures, Electronic and Instrumentation and Materials Science.

TOPICS

In ICCEBS2013 will be considered topics of (not limited to):
- Analysis and diagnosis;
- Applications in medicine;
- Applications in veterinary;
- Artificial organs;
- Bioengineering;
- Biofluid;
- Biological microelectromechanical systems, Labs-on-chips and Life-chips;
- Biomaterials;
- Biomedical devices;
- Computational bio- imaging and visualization;
- Computational methods;
- Computer aided diagnosis;
- Computer assisted surgery;
- Experimental mechanics;
- Implantology;
- Medical robotics;
- Minimally invasive devices and techniques;
- Molecular and Cellular Biomechanics;
- Numeral methods;
- Prosthesis and orthosis;
- Rehabilitation;
- ImagingSignal processing and analysis;
- Simulation;
- Software development;
- Sustainability;
- Technical aids;
- Telemedicine;
- Tissue engineering;
- Virtual reality.

Due to your very interesting and key research activities, we would like to invite you to participate in ICCEBS2013 and share your expertize. Your contribution is welcomed, and we would be honored if you could accept this invitation.

INVITED KEYNOTES

"The Biomechanics Detective & Clues to Expensive Unintentional Injuries"
James A. Ashton-Miller - University of Michigan, USA

"Experimental and numerical microstructural modelling of vascular tissues"
Estefanía Peña Baquedano - Universidad de Zaragoza, Spain

"Modelling flow induced ATP/ADP concentration transport in patient-specific arteries"
Perumal Nithiarasu - Swansea University, UK

DATES

- Deadline for one page abstract submission: 30th September 2013;
- Authors' notification: 5th October 2013;
- Deadline for full papers (not mandatory): 15th January 2014.

PUBLICATIONS

- Abstracts: All accepted abstracts will be distributed in a USB pen.
- Full Papers (not mandatory): The proceedings book of ICCEBS2013, with all full papers, will be published by Springer under the Book Series Lecture Notes in Computational Vision and Biomechanics (www.springer.com/series/8910).
- The organizers will prepare the publishing of a book with 20 invited works from the most important ones presented in ICCEBS2013 (extended versions). The book will be published by Springer under the Book Series Lecture Notes in Computational Vision and Biomechanics (www.springer.com/series/8910).
- Additionally, the organizers will encourage the submission of extended versions of the accepted works to related International Journals; particularly, for special journal issues dedicated to ICCEBS2013. Two already confirmed possibilities are: Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization (www.tandfonline.com/loi/tciv20) and International Journal for Computational Vision and Biomechanics (www.fe.up.pt/~ijcvb).

AWARD

A best work prize will be given by the conference organizers to the best work presented in ICCEBS2013.

Best wishes,

João Manuel R. S. Tavares, Universidade do Porto, Portugal (tavares@fe.up.pt)
Renato Natal Jorge, Universidade do Porto, Portugal (rnatal@fe.up.pt)
(ICCEBS co-chairs)

PS. For more information, you are invited to visit the conference webpage at: www.fe.up.pt/~iccebs.

Subject: 2014 Copper Mountain Conference on Iterative Methods

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From: Annette Anthony
Date: 9/20/2013

ANNOUNCING:

The Thirteenth Copper Mountain Conference on Iterative Methods
April 6 – April 11, 2014
Copper Mountain, Colorado, USA

ORGANIZED BY:

Front Range Scientific Computations, Inc.

CO-ORGANIZED BY:

Sandia National Laboratory
The University of Colorado Applied Math Department
Emory University

IN CO-OPERATON WITH:

The Society for Industrial and Applied Mathematics

CONFERENCE DEADLINES:

Student Competition Papers	January 10, 2014
Author Abstracts	January 17, 2014
Early Registration	March 6, 2014
Guaranteed Lodging	March 4, 2014

HIGHLIGHTED TOPICS:

Stochastic PDEs and Uncertainty Quantification
Scale-free/Small World Graphs, Page Rank and Markov Chains
Multigrid and Other Iterative Schemes on GPU & Multicore Architectures
Inverse Problems and Regularization
Optimization of Complex Systems
Nonlinear Solution Methods, Nonlinear Least-Squares
Multigrid All-At-Once and Block Approaches to PDE Systems
Coupled Multi-Physics Problems
Time-Parallel Algorithms
Krylov Accelerators
Hybrid Direct-Iterative Linear Solvers
Iterative Methods in Challenging Applications
(e.g., Electromagnetics, Energy, Envronmental, Data Assimilation, MHD, Neutronics, Transport/Reaction, Chemical Engineering)

IMPORTANT FEATURES:

Student Paper Competition. Travel and lodging assistance will be awarded to students and new PhDs judged to have submitted the best research papers

Workshops – Informal Topical Discussions

FURTHER INFORMATION:

Please access our website at:

http://grandmaster.colorado.edu/~copper/2014/

or contact the conference coordinator:

Annette Anthony
Front Range Scientific Computations
copper@colorado.edu
(480) 332-2026

Subject: Conference Announcement: ICOSAHOM 2014

From: Yekaterina Epshteyn <epshteyn@math.utah.edu>
Date: 9/17/2013

ICOSAHOM'14
International Conference on Spectral and High-Order Methods 2014
June 23-27 2014, Salt Lake City, Utah, USA
http://www.icosahom2014.org/

First Call for Mini-Symposium Proposal: Submission Deadline December 15 2013

The 10th International Conference on Spectral and High-Order Methods, will be hosted by the University of Utah, Salt Lake City, Utah, on June 23-June 27, 2014. The purpose of this conference series is to bring together researchers and practitioners with an interest in the theoretical, computational and applied aspects of high-order and spectral methods for the solution of differential equations.

Plenary speakers:
Susanne Brenner, Louisiana State Univ., USA
Martin Costabel, Univ. of Rennes 1, France
Sigal Gottlieb, Univ. of Massachusetts, Dartmouth, USA
Thomas Hagstrom, Southern Methodist Univ., USA
Ricardo Nochetto, Univ. of Maryland, USA
Per-Olof Persson, Univ. of California, Berkeley, USA
Jennifer Ryan, Univ. of East Anglia, UK
Thomas Wihler, Bern Univ., Switzerland

All interested participants are encouraged to submit a mini-symposium proposal. For submission guidelines as well as additional conference information, please visit the conference webpage:
http://www.icosahom2014.org/

It is anticipated that partial financial support will be available for students and junior researchers. Information regarding application will be posted on the website of the conference.

If you have questions, please email us at
icosahom2014-questions@sci.utah.edu

We look forward to seeing you in Salt Lake City in June 2014!

Yekaterina Epshteyn and Rodrigo Platte on behalf of the organizing committee.

Subject: Four Posdoctoral Positions in Statistical Inverse Problems

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From: andrew stuart <andrewmstuart@gmail.com>
Date: 9/14/2013

Four Posdoctoral Positions in Statistical Inverse Problems
Enabling Quantification of Uncertainty for Inverse Problems (EQUIP)

As part of the EPSRC funded EQUIP Programme Grant, Warwick University and Heriot-Watt University are advertising four postdoctoral positions in statistical inverse problems. Three posts will be based at the University of Warwick and another post at the University of Heriot-Watt. Each will have a two year duration, and may start at a mutually agreed date in the calendar year 2014. EQUIP is led by Andrew Stuart (Mathematics, Warwick) and comprises Mike Christie (Petroleum Engineering, Heriot-Watt), Mark Girolami (Statistical Science, currently UCL but moving to Warwick) and Gareth Roberts (Statistics, Warwick). Applicants with expertise in the areas of inverse problems, numerical analysis, computational

partial differential equations, computational and theoretical
statistics and subsurface geophysics are encouraged to apply.

For details about EQUIP, and links to the application process, see:

http://www2.warwick.ac.uk/fac/sci/maths/research/grants/equip

Submitted by: Andrew Stuart
a.m.stuart@warwick.ac.uk
http://www2.warwick.ac.uk/fac/sci/maths/people/staff/andrew_stuart/

Subject: Table of Contents 'Journal of Inverse and Ill-Posed Problems'

From: <noreply@degruyter.com>
Date: 9/10/2013

Journal of Inverse and Ill-Posed Problems August Vol. 21, Issue 4
Table of Contents

Carleman estimates for global uniqueness, stability and numerical methods for coefficient inverse problems Michael V. Klibanov

Two-parameter discrepancy principle for combined projection and Tikhonov regularization of ill-posed problems Teresa Regin'ska

A source identification problem in linear parabolic problems: A semigroup approach Marián Slodicka

Online: http://www.degruyter.com/view/j/jip.2013.21.issue-4/issue-files/jip.2013.21.issue-4.xml

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Subject: Table of Contents for IPSE in IPNet Digest

From: "Gray, Helen" <Helen.Gray@tandf.co.uk>
Date: 9/16/2013

The latest issue of Inverse Problems in Science and Engineering (Volume 21, ISsue 6) is now available online at: http://www.tandfonline.com/toc/gipe20/current

We are pleased to present in this issue a special section of selected papers from the 2nd International Symposium on Inverse Problems of Mechanics of Structures and Materials-IPM 2011, 27-30 April 2011, Rzeszòw-Sieniawa, Poland.

Inverse Problems in Science and Engineering 2013 Vol. 21, Iss. 6
Table of Contents

Foreword Zenon Waszczyszyn

Passive electric potential CT method using piezoelectric film for identification of defects
Shiro Kubo, Takahide Sakagami & Seiji Ioka

Damage identification in multifield materials using neural networks
Gabriel Hattori & Andrés Sáez

Soft computing methods in the analysis of elastic wave signals and damage identification Piotr Nazarko

Hybrid artificial immune system in identification of room acoustic properties
A. Poteralski, M. Szczepanik, J. Ptaszny, W. Kus & T. Burczynski

Solution of electromagnetic inverse medium scattering problems by the adaptive finite element method and perfectly matched layer
Waldemar Rachowicz

Numerical modelling of slumps under highways located on a mining damage area, based on experimental measurements
Slawomir Milewski & Janusz Orkisz

Inverse source problem in a one-dimensional evolution linear transport equation with spatially varying coefficients: application to surface water pollution Adel Hamdi & Imed Mahfoudhi

Reconstruction for the spherically symmetric speed of sound from nodal data Yu Ping Wang, Zhen You Huang & Chuan Fu Yang

A bivariate Gaussian function approach for inverse cracks identification of forced-vibrating bridge decks
Myung-Hyun Noh & Sang-Youl Lee

A new multimodal cortical source imaging algorithm for integrating simultaneously recorded EEG and MEG
Jong-Ho Choi, Young-Jin Jung, Hyun-Kyo Jung & Chang-Hwan Im

Regularization of an ill-posed problem in corneal topography
L Plociniczak & W Okrasinski

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 29, Number 10, October 2013

From: <custserv@iop.org>
Date: 9/18/2013

Inverse Problems October 2013 Volume 29, Number 10
Table of Contents

Transmission Eigenvalues

Transmission eigenvalues Fioralba Cakoni and Houssem Haddar

Spectral analysis of the interior transmission eigenvalue problem
Luc Robbiano

Completeness of generalized transmission eigenstates
Eemeli Blåsten and Lassi Päivärinta

Applications of elliptic operator theory to the isotropic interior transmission eigenvalue problem E Lakshtanov and B Vainberg

Strongly oscillating singularities for the interior transmission eigenvalue problem
Anne-Sophie Bonnet-Ben Dhia and Lucas Chesnel

Transmission eigenvalues for Maxwell's equations in isotropic absorbing media with frequency-dependent electrical parameters
Fabrice Delbary

Transmission eigenvalues for a class of non-compactly supported potentials Esa V Vesalainen

Transmission eigenvalues for dielectric objects on a perfect conductor
Peter Monk and Virginia Selgas

Complex eigenvalues and the inverse spectral problem for transmission eigenvalues David Colton, and Yuk-J Leung

Transmission eigenvalues in one dimension John Sylvester

A computational method for the inverse transmission eigenvalue problem
Drossos Gintides, and Nikolaos Pallikarakis

The inside–outside duality for scattering problems by inhomogeneous media Andreas Kirsch, and Armin Lechleiter

A numerical method to compute interior transmission eigenvalues
Andreas Kleefeld

Computation of Maxwell's transmission eigenvalues and its applications in inverse medium problems Jiguang Sun and Liwei Xu

Asymptotic expansions for transmission eigenvalues for media with small inhomogeneities Fioralba Cakoni and Shari Moskow

Linear sampling method for the heat equation with inclusions
Gen Nakamura and Haibing Wang

Transmission eigenvalues and thermoacoustic tomography
David Finch and Kyle S Hickmann

Online: http://iopscience.iop.org/0266-5611/29/10/email-alert/1137908735

Subject: New IPI vol. 7, no. 3 2013 August issue is now available online

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From: Susan Cummins <newsletter@aimsciences.org>
Date: 9/23/2013

Inverse Problems and Imaging August 2013 Volume 7, Number 3
Table of Contents

Preface
Raymond H. Chan, Thomas Y. Hou, Hong-Kai Zhao, Haomin Zhou, and Jun Zou

An anisotropic perfectly matched layer method for Helmholtz scattering problems with discontinuous wave number
Zhiming Chen, Chao Liang, and Xueshuang Xiang

Nonlinear stability of the implicit-explicit methods for the Allen-Cahn equation
Xinlong Feng, Huailing Song, Tao Tang, and Jiang Yang

Non-Gaussian dynamics of a tumor growth system with immunization

Mengli Hao, Ting Gao, Jinqiao Duan, and Wei Xu

Nonstationary iterated thresholding algorithms for image deblurring
Jie Huang, Marco Donatelli, and Raymond H. Chan

A local mesh method for solving PDEs on point clouds
Rongjie Lai, Jiang Liang, and Hong-Kai Zhao

A direct sampling method for inverse scattering using far-field data
Jingzhi Li and Jun Zou

Wavelet frame based color image demosaicing
Jingwei Liang, Jia Li, Zuowei Shen, and Xiaoqun Zhang

Recent results on lower bounds of eigenvalue problems by nonconforming finite element methods Qun Lin and Hehu Xie

How to explore the patch space
Jose-Luis Lisani, Antoni Buades, and Jean-Michel Morel

Video stabilization of atmospheric turbulence distortion
Yifei Lou, Sung Ha Kang, Stefano Soatto, and Andrea L. Bertozzi

A conformal approach for surface inpainting
Lok Ming Lui, Chengfeng Wen, and Xianfeng Gu

Multi-view foreground segmentation via fourth order tensor learning
Michael K. Ng, Chi-Pan Tam, and Fan Wang

Statistical ranking using the l1-norm on graphs
Braxton Osting, Jerome Darbon, and Stanley Osher

A texture model based on a concentration of measure
Hayden Schaeffer, John Garnett, and Luminita A. Vese

3D adaptive finite element method for a phase field model for the moving contact line problems
Yi Shi, Kai Bao, and Xiao-Ping Wang

Three steps on an open road Gilbert Strang

Energy conserving local discontinuous Galerkin methods for wave propagation problems
Yulong Xing, Ching-Shan Chou, and Chi-Wang Shu

The single-grid multilevel method and its applications
Jinchao Xu

General convergent expectation maximization (EM)-type algorithms for image reconstruction
Ming Yan, Alex A. T. Bui, Jason Cong, and Luminita A. Vese

Fast total variation wavelet inpainting via approximated primal-dual hybrid gradient algorithm
Xiaojing Ye and Haomin Zhou

The Gaussian beam method for the wigner equation with discontinuous potentials Dongsheng Yin, Min Tang, and Shi Jin

A fast modified Newton's method for curvature based denoising of 1D signals Andy M. Yip and Wei Zhu

Four color theorem and convex relaxation for image segmentation with any number of regions

Ruiliang Zhang, Xavier Bresson, Tony F. Chan, and Xue-Cheng Tai

Online: http://aimsciences.org/journals/contentsListnew.jsp?pubID=621

Submitted by: Susan Cummins
Publication Editor, American Institute of Mathematical Sciences
Springfield, MO 65801 USA Phone: 417-987-6421
------- end -------

IPNet Digest Volume 20, Number 09 October 31, 2013

Today's Editor: Patricia K. Lamm, Michigan State University

Today's Topics:

Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu
Information about IPNet:
http://www.math.msu.edu/ipnet

Subject: IPTA 2014: Inverse Problems from Theory to Application Conference

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From: Leanne Mullen <Leanne.Mullen@iop.org>
Date: 10/14/2013

IPTA 2014, hosted by the journal Inverse Problems, will be held in Bristol at the science museum At-Bristol on 26-28th August 2014. This conference represents a new forum to disseminate interdisciplinary inverse problems research and to facilitate increased engagement and collaboration within the international community.

The scientific committee, Professor Alfred K Louis, Professor Simon Arridge and Professor Bill Rundell, have organised a diverse scientific programme which combines mathematical and experimental work with theoretical, numerical and practical approaches to solving inverse problems. As well as supporting the applied mathematics community, the conference will also encompass a plethora of applications including the physical sciences, engineering, geophysics, optics, biology, acoustics, communication theory, signal processing and imaging. We are looking forward to welcoming you to Bristol in 2014!

Registration opens 2nd January 2014.

http://ipta2014.iopconfs.org

Subject: ICIPE 2014 Abstract Deadline Extended

From: Inverse Problems <info@inverseproblems.org>
Date: 10/8/2013

Abstract Deadline Extended!

Due to technical issues with the abstract submission site on the original deadline, the FINAL deadline for abstract submission has been revised. The new, and final, deadline is November 4, 2013. We have a great number of abstracts in hand but look forward to receiving your contribution.

8th International Conference on Inverse Problems in Engineering (ICIPE2014).
Conference Website: http://www.icipe2014.org

The conference will be held on May 12-15, 2014, Cracow, Poland.
ICIPE2014 is the continuation of the conference series which began in Palm Coast, FL, USA, in 1993.

Timetable

Abstract submission deadline: November 4, 2013
Abstract acceptance notification: TBA
Paper submission deadline: February 1, 2014
Paper acceptance notification: March 15, 2014
Final paper submission deadline: April 12, 2014
Conference start: May 12, 2014

Contact

If you have any further queries, please do not to hesitate to contact us.
Organizer Email: icipe2014@icipe2014.org

You can also find out us on a Conference Facebook profile (ICIPE2014) or on a Twitter (@ICIPE2014).

We look forward to seeing you in Cracow,

Yours sincerely,
Ireneusz Szczygiel, Conference Chair
Andrzej J. Nowak, Conference Co-Chair
James V. Beck, Honorary Conference Chair

Keith A. Woodbury, ICIPE Steering Committee
Marek Rojczyk, Conference Secretary

[This submission has been edited to reflect recent deadline updates on the conference website. -Ed.]

Subject: Assistant/Associate/Full Professor Positions, MATH HKBU

From: Michael Ng <mng@math.hkbu.edu.hk>
Date: 10/2/2013

Assistant/Associate/Full Professor Positions, MATH HKBU

The Department of Mathematics, Hong Kong Baptist University
with strong commitment in first-class research and nurturing
high-quality students, now invites applications for a
Professor/Associate Professor/Assistant Professor. We are seeking
exceptionally qualified candidates with expertise in areas including,
but not limited to, imaging sciences, optimization, numerical analysis
and scientific computing.

A Ph.D. in Applied Mathematics or a related scientific field,
demonstrated excellence in research and teaching, are required.
For more information, please contact Michael Ng (mng@math.hkbu.edu.hk)
or Tao Tang (ttang@math.hkbu.edu.hk).

To apply for the position: please visit and submit the application form
http://pers.hkbu.edu.hk/job_details.php?page_id=6&job_id=1925

Subject: Faculty Position, Computational Math, Emory University

---

From: James Nagy <nagy@mathcs.emory.edu>
Date: 10/16/2013

The Department of Mathematics & Computer Science at Emory University
invites applications for a tenure-track faculty position in
Computational Mathematics. Appointments are expected to be at the
Assistant Professor level in the area of numerical optimization;
senior candidates may be considered for truly outstanding cases.
Applicants must demonstrate exceptional research ability, and have a
PhD in Mathematics, Computer Science, or a closely related
field. Applicants should also have strong records, or promise, as

undergraduate and graduate teachers. Ideal candidates will have interdisciplinary interests that complement and enhance current research strengths in numerical linear algebra, networks, inverse problems, numerical partial differential equations, and computational fluid dynamics.

Applications consisting of a CV, research and teaching statements, and three letters of recommendation directly from recommenders can be submitted via Mathjobs.org, or can be sent via email to cmsearch2014@mathcs.emory.edu. Informal inquiries are also invited by email. Screening starts December 1, 2013. Applications received by December 31, 2013, will receive a full review. Please note that appointments are subject to final funding approval. For additional information about the department, please see: http://www.mathcs.emory.edu

Emory University is an Equal Opportunity/Affirmative Action employer. Women and underrepresented minorities are encouraged to apply.

James Nagy
Chair of CM Search Committee
nagy@mathcs.emory.edu

Subject: Postdoc openings at MIT

From: Laurent Demanet <laurent@math.mit.edu>
Date: 10/2/2013

The Imaging and Computing group in the Department of Mathematics at MIT invites applications for two postdoctoral positions. The areas of interest to the group include computational wave propagation, optimization, inverse problems, applied harmonic analysis, sparse and low-rank recovery, uncertainty quantification, fast algorithms, seismic and radar imaging.

All the details are at http://math.mit.edu/icg/openings/

Subject: Post-doctoral position available at IBM Research Collaboratory - Singapore

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From: Laura Wynter <lwynter@us.ibm.com>
Date: 10/21/2013

IBM Research Collaboratory in Singapore welcomes qualified post-doctoral

candidates to apply for a fellowship starting as early as January 2014.

The successful candidate will be working on the 'next generation' of real-time analytics leveraging massive multimedia and unstructured datasets (such as cognitive computing).

We welcome applications from candidates with background experience in optimal control, inverse problems, data assimilation, or machine learning, who feel that their experience will assist in the development of online operational analytics across multiple application areas from transportation to environmental sensing.

The position involves working with an international research team developing models and algorithms for real-time analytics. The position involves both innovative research and writing articles as well as significantly contributing to real-world client projects. There is a component of the position that involves programming, and experience in Java is preferred. However, the position is not primarily a programming position.

Salary and benefits are very competitive. The actual salary is determined by the IBM Research Human Resources department and cannot be provided ahead of an offer being made to the candidate. But, it can be expected that the salary and benefits will be very attractive, as compared to academic positions and to other positions in industry.

The position is for one year and can be renewed up to two more years based on mutual agreement. As such, this is a duration-limited position. Of the postdoctoral researchers at IBM Research, some are converted to permanent, non-duration-limited, positions during the course of their postdoctoral fellowship. However, no guarantee of such conversion can be made ahead of time.

We are actively recruiting for this position now and wish to fill at least one position soon, but regardless of your availability date, we encourage you to apply to the position, as it is possible for multiple positions to become available during the course of 2014. Therefore, while there is a preference given to candidates who are available to start early in 2014, all qualified and interested candidates should apply.

Cognitive computing is an exciting area of research within IBM and if this position appeals to you,
please send a recent CV and please have 1 or 2 recommendation letters emailed directly to
Dr. Sebastien Blandin, at sblandin@sg.ibm.com.

Subject: Post-doctoral position available at University of California, Davis

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From: Thomas Strohmer <strohmer@math.ucdavis.edu>
Date: 10/23/2013

POST-DOCTORAL POSITION IN MATHEMATICS University of California, Davis

The Department of Mathematics at the University of California, Davis, is soliciting applications for a Postdoctoral Scholar position with a starting date between March 2014 and October 2014.

To be considered for the Postdoctoral Scholar position, the Department seeks applicants with a strong knowledge base in Sparse Approximations, Compressive Sensing, Numerical Algorithms and/or Optimization. A Ph.D. in Mathematics or the equivalent is required by August 31, 2014. The position requires working on research related to a defense-based project (sponsored by DTRA/NSF), led by Professor Thomas Strohmer. The research is concerned with developing theory and algorithms for phase retrieval, hyper spectral imaging, and signal recovery in connection with threat detection. The candidate should also have excellent programming skills in Matlab. The annual salary of this position is $60,000, plus some travel funds. The position carries no teaching duties the first two years, but teaching may be possible upon request. The third year may be a 9-month position with 50% teaching and 50% research. The appointment is renewable for a total of up to three years, assuming satisfactory performance. The UC Davis Math and Applied Math programs have been ranked among the nation's top programs by the National Research Council in its most recent report.

Additional information about the Department may be found at https://www.math.ucdavis.edu/. Our postal address is Department of Mathematics, University of California, One Shields Avenue, Davis, CA 95616-8633. Applications will be accepted until the positions are filled. To guarantee full consideration, the application should be received by December 15, 2013 by submitting the AMS Cover Sheet and supporting documentation electronically through http://www.mathjobs.org/. The University of California is an affirmative action/equal opportunity employer.

Subject: Bayesian methods in inverse problems special issue to be published in Inverse Problems

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From: Leanne Mullen <Leanne.Mullen@iop.org>
Date: 10/29/2013

Inverse Problems is pleased to announce the following upcoming 2014 special issue

entitled ‘Bayesian methods in inverse problems’.

This special issue aims at bringing together articles in which the common theme is the use of Bayesian statistics to analyse measurements and to infer unknown quantities of interest, including Monte Carlo sampling methods and Bayesian filtering of dynamical models. The topic is closely related to the increasingly important uncertainty quantification, Bayesian methods providing a viable and fruitful way of expressing lack of information in terms of probability densities. Application areas include, but are not limited to, biomedical engineering and imaging, geophysics, hydrology, astronomy, oceanography and atmospheric sciences, chemistry, epidemiology, modelling of complex biological systems, and the economy. The guest editors are Daniela Calvetti and Erkki Somersalo (Case Western Reserve University) and Jari Kaipio (University of Auckland and University of Eastern Finland).

This special issue is now open for submissions. We also kindly ask you to distribute this call among all colleagues who might be interested in submitting their work.

We invite you to submit your manuscript via http://mc04.manuscriptcentral.com/ip-iop.
The closing date for submissions is 3rd March 2014.

Submitted by: Dr Leanne Mullen, Publishing Editor. Inverse Problems
IOP Publishing, Temple Circus, Temple Way, Bristol, BS1 6HG
Tel: +44 (0)117 930 1842 E-mail: Leanne.Mullen@iop.org
http://iopscience.iop.org/

Subject: Table of Contents: 'Journal of Inverse and Ill-Posed Problems'

From: <noreply@degruyter.com>
Date: 10/1/2013

Journal of Inverse and Ill-Posed Problems Oct 2013 Volume 21, Issue 5
Table of Contents

Semismooth Newton and quasi-Newton methods in weighted l1-regularization
Muoi, Pham Quy / Hào, Dinh Nho / Maass, Peter / Pidcock, Michael

On the iterative inversion of generalized attenuated Radon transforms
Miqueles, Eduardo X. / De Pierro, Alvaro R.

This issue of 'Journal of Inverse and Ill-Posed Problems' is now available online from De Gruyter Online:
http://www.degruyter.com/view/j/jip.2013.21.issue-5/issue-files/jip.2013.21.issue-5.xml

[Note: The list of contents for Volume 21, Issue 6, of this journal was given in IPNet Digest Vol. 20, No. 8, available at: http://janus.math.msu.edu/ipnet/ipnet_archive/digests/Digest_v20n08.pdf -Ed.]

Subject: Inverse Problems, Volume 29, Number 11, November 2013
From: <custserv@iop.org>

Inverse Problems November 2013 Volume 29, Number 11
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Stability estimates for the unique continuation property of the Stokes system and for an inverse boundary coefficient problem
Muriel Boulakia, Anne-Claire Egloffe and Céline Grandmont

Carleman estimate and inverse source problem for Biot's equations describing wave propagation in porous media
Mourad Bellassoued and Masahiro Yamamoto

Multi-sheet surface rebinning methods for reconstruction from asymmetrically truncated cone beam projections: I. Approximation and optimality
Marta M Betcke and William R B Lionheart

Multi-sheet surface rebinning methods for reconstruction from asymmetrically truncated cone beam projections: II. Axial deconvolution
Marta M Betcke and William R B Lionheart

The factorization method for inverse elastic scattering from periodic structures
Guanghui Hu, Yulong Lu and Bo Zhang

Inverse problem of electro-seismic conversion Jie Chen and Yang Yang

On multiple frequency power density measurements Giovanni S Alberti

On a continuation approach in Tikhonov regularization and its application in piecewise-constant parameter identification V Melicher and V Vrábel'

Augmented projections for ptychographic imaging
Stefano Marchesini, Andre Schirotzek, Chao Yang, Hau-tieng Wu and Filipe Maia

On the inversion of the Radon transform on a generalized Cormack-type class of curves G Rigaud

Shape optimization methods for the inverse obstacle problem with generalized impedance boundary conditions
Fabien Caubet, Marc Dambrine and Djalil Kateb

Inverse spectral analysis for the transmission eigenvalue problem
Guangsheng Wei and Hong-Kun Xu

Total variation regularization for a backward time-fractional diffusion problem Liyan Wang and Jijun Liu

A geometric approach to joint inversion with applications to contaminant source zone characterization
Alireza Aghasi, Itza Mendoza-Sanchez, Eric L Miller, C Andrew Ramsburg and Linda M Abriola

The factorization method for the acoustic transmission problem
Konstantinos A Anagnostopoulos, Antonios Charalambopoulos and Andreas Kleefeld

Corrigendum: Efficient gradient projection methods for edge-preserving removal of Poisson noise R Zanella, P Boccacci, L Zanni and M Bertero

http://iopscience.iop.org/0266-5611/29/11

Subject: Table of Contents, Nonlinear Analysis: Modelling and Control

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From: Romas Baronas <romas.baronas@mif.vu.lt>
Date: 10/16/2013

Nonlinear Analysis: Modelling and Control 2013 Volume 18, Number 4
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Pulsating flow of an incompressible micropolar fluid between permeable beds
Punnamchandar Bitla, Telikicherla Kandala Venkatacharyulu Iyengar

Numerical solution of nonlinear elliptic equation with nonlocal condition
Regimantas Ciupaila, Mifodijus Sapagovas, Olga Stikoniene

Weaker cyclic (\varphi, \phi)-contractive mappings with an application to integro-differential equations
Hemant Kumar Nashine, Zoran Kadelburg

A survey of models for inference of gene regulatory networks
Blagoj Ristevski

Common fixed point theorems on non-complete partial metric spaces
Shaban Sedghi, Nabi Shobkolaei, Ishak Altun

Multi-objective optimization aided to allocation of vertices in aesthetic drawings of special graphs
Audrius Varoneckas, Antanas Zilinskas, Julius Zilinskas

Existence and uniqueness of solutions for a singular system of higher-order nonlinear fractional differential equations with integral boundary conditions
Lin Wang, Xingqiu Zhang, Xinyi Lu

A note on the max-sum equivalence of randomly weighted sums of heavy-tailed random variables
Yang Yang, Kaiyong Wang, Remigijus Leipus, Jonas Siaulys

Spatiotemporal chaos in Arnold coupled logistic map lattice
Ying-Qian Zhang, Xing-Yuan Wang

A free on-line edition is available at: http://www.mii.lt/NA/

Submitted by: Dr. Romas Baronas, Deputy-Editor-in-Chief,
Nonlinear Analysis: Modelling and Control, http://www.mii.lt/NA/
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IPNet Digest Volume 20, Number 10 December 1, 2013

Today's Editor: Patricia K. Lamm, Michigan State University
Today's Topics:
Conference: First Gordon Research Conference on Image Science
Faculty Position at Tufts: Scientific Computing, Areas include 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: Information for posting regarding First Gordon Research Conference on Image Science: June 8-13, 2014

From: GRC 2014 Conference <ImageScience2014GRC@fda.hhs.gov>
Date: 11/14/2013 8:55 PM

The first Gordon Research Conference (GRC) on Image Science will be held from June 8-13, 2014, at Stonehill College in Easton, MA, U.S.A. Applications are being accepted now at the meeting website:
http://www.grc.org/programs.aspx?year=2014&program=imagesci

The program will be absolutely first-rate, featuring an international collection of world-leading scientists engaged in Image Science research across imaging disciplines. The meeting format is designed to maximize productive interactions and development of collaborations. Attendance will be capped at 200. All attendees will have the opportunity to present original research in a set of poster sessions. Only unpublished research at the absolute frontier of knowledge is to presented (both orally and in poster sessions), with an emphasis on extended discussion. To promote the discussion of cutting-edge research, GRCs are officially "off-the-record", with no abstracts or proceedings published before, during, or after the conference, and ample time is provided between sessions for socializing and informal discussions with fellow attendees.

We are proud and excited to be the organizers of this first GRC on Image Science. We hope you will plan to attend!

Kyle J. Myers
Chair
CDRH/FDA

Richard G. Paxman
Vice-Chair
General Dynamics --Advanced Information Systems

Subject: Tufts Univ. Tenure Track Asst. Professor Position, Scientific Computing

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From: "Kilmer, Misha E" <Misha.Kilmer@tufts.edu>
Date: 11/18/2013

TUFTS UNIVERSITY, DEPARTMENT OF MATHEMATICS
Tenure Track Assistant Professor Position
Scientific Computing

Applications are invited for a tenure-track assistant professor position in Scientific Computing, to begin September 1, 2014. Applicants must hold a doctorate by the beginning of the appointment, and must show promise of outstanding research in the area of Scientific Computing. Potential for excellence in college-level teaching also required. Preference will be given to candidates who show strong potential for interaction with existing applied mathematics research efforts in the department, including computational PDEs, computational neuroscience, numerical linear algebra, computational fluid dynamics, and inverse problems.

Applications should include a cover letter, curriculum vitae, a research statement, and a teaching statement. These documents should be submitted electronically through http://www.mathjobs.org. In addition, applicants should arrange for three letters of recommendation to be submitted electronically on their behalf through http://www.mathjobs.org. If a recommender cannot submit online, we will also accept signed PDF attachments sent to Christoph.Borgers@tufts.edu or paper letters mailed to SC Search Committee Chair, Department of Mathematics, Bromfield-Pearson Hall, Tufts University, Medford, MA 02155.

Review of applications will begin on December 15, 2013 and will continue until the position is filled.

Tufts University is an Affirmative Action / Equal Opportunity employer. We are committed to increasing the diversity of our faculty. Members of underrepresented groups are strongly encouraged to apply.

Subject: Table of Contents for IPSE in IPNet Digest

From: "Gray, Helen" <Helen.Gray@tandf.co.uk>
Date: 11/19/2013 8:22 AM

Inverse Problems in Science and Engineering 2013 Vol. 21, Issue 8
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Numerical reconstruction of unknown boundary data in the Cauchy problem for Laplace's equation Balgaisha Mukanova

Equivalent ultrasonic impedance in multilayer media. A parameter estimation problem
María G. Messineo, Gloria L. Frontini, Guillermo E. Eliçabe & Luis Gaete-Garretón

Drift reconstruction from first passage time data using the Levenberg–Marquardt method Pak-Wing Fok

Rapid identification of material properties of the interface tissue in dental implant systems using reduced basis method
K.C. Hoang, B.C. Khoo, G.R. Liu, N.C. Nguyen & A.T. Patera

On the optimum synthesis of a microconveyor platform for micropart translocation using differential evolution Mohsin Rizwan & Panos S. Shiakolas

Application of simulated annealing in a rectangular fin with variable heat transfer coefficient
Ranjan Das & K.T. Ooi

Numerical reconstruction in a three-spectra inverse Sturm–Liouville problem with mixed boundary conditions Mihaela-Cristina Drignei

Crack identification in beams using Hilbert transform, kurtosis and mode shape rotation deviation curve
H. Kucukgoncu & K. Aydin

Corrigendum
Application of simulated annealing in a rectangular fin with variable heat transfer coefficient
Ranjan Das & K.T. Ooi

The latest issue of Inverse Problems in Science and Engineering (Volume 21, Issue 8) is now available online at: http://www.tandfonline.com/toc/gipe20/current

Submitted by: Helen Gray, Publishing Editor
Mathematics, Statistics & History of Science
Taylor & Francis Group.
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Subject: Inverse Problems, Volume 29, Number 12, December 2013

From: <custserv@iop.org>
Date: 11/26/2013 8:25 AM

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M Di Cristo, C-L Lin, A Morassi, E Rosset, S Vessella, and J-N Wang

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Numerical inversion of the Funk transform on the rotation group Ralf Hielscher

Compressed sensing in imaging mass spectrometry
Andreas Bartels, Patrick Dülk, Dennis Trede, Theodore Alexandrov, and Peter Maaß

Issue available at: http://iopscience.iop.org/0266-5611/29/12
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