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IPNet Digest Volume 25, Number 01 January 30, 2018

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

Today's Topics:

Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu

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

From: OIPE 2018 <notifications@exordo.com>
Subject: OIPE 2018 - Call for Papers
Date: December 6, 2017

OIPE 2018 - 15th International Workshop on Optimization and Inverse Problems in Electromagnetism
http://www.oipe2018.at

Dear colleagues,

it is with great pleasure that we announce that the 15th Workshop on Optimization and Inverse Problems in Electromagnetism, OIPE 2018, will be held on September 11 – 13, 2018, in Hall in Tirol, Austria.

We invite members of the scientific community in universities, research centers and industry to attend the workshop and present their recent achievements.

Please find the Call for Papers:
https://oipe2018.exordo.com/files/messages/23/OIPE2018_Call_of_Papers.pdf
More information about the workshop and the preceding doctoral course can be found on the website www.oipe2018.at

We are looking forward to meeting you all in Hall in Tirol at the OIPE 2018.

Prof. Dr. Daniel Baumgarten

Chairman OIPE 2018

From: "Dolan, Kirk" <dolank@anr.msu.edu>
Subject: 2018 IPS June 3-5, MSU
Date: December 31, 2017

2018 Inverse Problems Symposium June 3-5. Michigan State University

https://inverseproblems2018.org/

Abstract Submission is open!

We also welcome session organizers.

This is the 31st in the series of National and International meetings on Inverse Problems that were initiated at Michigan State University in 1988. Papers are solicited from all areas involving inverse methods and their applications. The symposium is organized in a single-session format to foster cross-disciplinary interaction. Solicited topics include:

A. Mathematical and Statistical Aspects of Inverse Problems
   1. Theory and Methods of Inverse Problems
   2. Stability and Error Analysis
B. Design of Experiments
   1. Optimal Design of Experiments
   2. Analysis of Actual Experimental Data
C. Applications
   1. Heat Transfer, Applied Mechanics, Controls, Other Engineering Disciplines
   2. Biology, Biochemistry, Genetics, and Medicine
   3. Nondestructive Evaluation
   4. Nanoengineering
   5. Tomography and Inverse Scattering
   6. Geology and Environmental Phenomena
   7. Economics
   8. Food and Bioprocessing
   9. Bioengineering
   10. Packaging

Contact Information:
Honorary Chairman: Dr. James V. Beck, Professor Emeritus, Michigan State University, beck@msu.edu.
Conference Chairman: Kirk Dolan, Professor
Department of Food Science & Human Nutrition
Department of Biosystems & Agricultural Engineering
Michigan State University East Lansing, MI 48224
Phone: (517) 353-3333
dolank@msu.edu

From: igwmc <igwmc@mines.edu>
Subject: iEMSs 2018 - Modelling and Decision Making Under Uncertainty
Date: January 30, 2018

Next summer (June 24-28 2018), the 9th International Congress on Environmental Modelling and Software will take place in Ft. Collins, Colorado, USA! (http://iemss2018.engr.colostate.edu/)

We (Mary Hill , Holger Maier, Saman Razavi and Jiri Nossent) are organizing a broad session on “Modelling and Decision Making Under Uncertainty” (detailed description at the end of this e-mail) and invite you to consider a contribution to our session.

The abstract submission deadline is 1st February 2018 and the direct link for submitting abstracts is http://iemss2018.engr.colostate.edu/call-for-abstracts/

Looking forward to meeting you in Ft. Collins for this great event!

Best regards,

Mary Hill , Holger Maier, Saman Razavi and Jiri Nossent

Session description:

Uncertainty is an intrinsic part of environmental modelling and the legitimacy and utility of modelling for decision making is influenced by how different sources of uncertainty are addressed and propagated through the model. Therefore, this session aims to share information on advances in uncertainty and sensitivity analysis methods, approaches and case studies to promote explicit and reasoned consideration of uncertainty. We welcome both quantitative and qualitative contributions, in both management and research settings. Examples of quantitative techniques include (but are not limited to) those associated with:

- deep uncertainty
- scenario analysis
- multi-criteria analysis
- exploratory modelling
- expert elicitation
- use of multiple working hypotheses
- multi-model ensembles
- sensitivity analysis

Examples of qualitative techniques include (but are not limited to):

- discussion and communication of limitations
- assessment of model pedigree
- assessment and quantification of information requirements
- identification of future research needs

From: <noreply@iopscience.org>
Subject: Inverse Problems Tables of Contents
Date: December 1, 2017

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Special Issue Papers

F O Goncharov

Identification of heat transfer coefficient through linearization: explicit solution and approximation
F S V Bazán, and L Bedin

Solving ill-posed inverse problems using iterative deep neural networks
Jonas Adler, and Ozan Öktem

A variational reconstruction method for undersampled dynamic x-ray tomography based on physical motion models
Martin Burger, Hendrik Dirks, Lena Frerking, Andreas Hauptmann, Tapio Helin, and Samuli Siltanen

Parameter identification in ODE models with oscillatory dynamics: a Fourier regularization approach
Maria Chiara D'Autilia, Ivonne Sgura, and Benedetto Bozzini

Papers

Convergence analysis of surrogate-based methods for Bayesian inverse problems
Liang Yan, and Yuan-Xiang Zhang

Modified transmission eigenvalues in inverse scattering theory
S Cogar, D Colton, S Meng, and P Monk

Well-posedness of the Goursat problem and stability for point source inverse backscattering
Eemeli Blåsten

Boundary determination of the Lamé moduli for the isotropic elasticity system
Yi-Hsuan Lin, and Gen Nakamura

Fast myopic 2D-SIM super resolution microscopy with joint modulation pattern estimation
François Orieux, Vincent Loriette, Jean-Christophe Olivo-Marin, Eduardo Sepulveda, and Alexandra Fragola

Determining anisotropic conductivity using diffusion tensor imaging data in magneto-acoustic tomography with magnetic induction
Habib Ammari, Lingyun Qiu, Fadil Santosa, and Wenlong Zhang

Monotonicity based imaging method for time-domain eddy current problems
Z Su, S Ventre, L Udpa, and A Tamburrino

A TVSCAD approach for image deblurring with impulsive noise
Guoyong Gu, Suhong Jiang, and Junfeng Yang

Inversion of geophysical potential field data using the finite element method
Bishnu P Lamichhane, and Lutz Gross

A physiology-based parametric imaging method for FDG–PET data
Mara Scussolini, Sara Garbarino, Gianmario Sambuceti, Giacomo Caviglia, and Michele Piana

New sets of eigenvalues in inverse scattering for inhomogeneous media and their determination from scattering data

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Special Issue Papers

Papers

http://iopscience.iop.org/issue/0266-5611/34/1

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Special Issue Papers

Efficient generalized Golub–Kahan based methods for dynamic inverse problems
Julianne Chung, Arvind K Saibaba, Matthew Brown, and Erik Westman

Efficient regularization with wavelet sparsity constraints in photoacoustic tomography
Jürgen Frikel, and Markus Haltmeier

Papers

Size estimates for fat inclusions in an isotropic Reissner–Mindlin plate
Antonino Morassi, Edi Rosset, and Sergio Vessella

A direct method for nonlinear ill-posed problems
A Lakhal

Coded aperture ptychography: uniqueness and reconstruction
Pengwen Chen, and Albert Fannjiang

Stability of stationary inverse transport equation in diffusion scaling
Ke Chen, Qin Li, and Li Wang

Variational Gaussian approximation for Poisson data
Simon R Arridge, Kazufumi Ito, Bangti Jin, and Chen Zhang

An inverse problem for Maxwell’s equations with Lipschitz parameters
Monika Pichler

Reconstruction of an order of derivative and a source term in a fractional diffusion equation from final measurements
Jaan Janno, and Nataliia Kinash

Iterative updating of model error for Bayesian inversion
Daniela Calvetti, Matthew Dunlop, Erkki Somersalo, and Andrew Stuart

http://iopscience.iop.org/issue/0266-5611/34/2

From: Romas Baronas <romas.baronas@mif.vu.lt>
Subject: Table of Contents, Nonlinear Analysis: Modelling and Control 23:1
Date: January 8, 2018

Nonlinear Analysis: Modelling and Control 2018 Volume 23, Number 1
Table of Contents

Controllability of nonlinear fractional delay dynamical systems with prescribed controls
Xiao-Li Ding, Juan J. Nieto

Prediction of composite indicators using locally weighted quantile regression
Jurga Ruksenaite, Pranas Vaitkus, Povilas Asijavicius

New uniqueness results for boundary value problem of fractional differential equation
Yujun Cui, Wenjie Ma, Qiao Sun, Xinwei Su

Impulsive control of nonlinear systems with impulse time window and bounded gain error

http://www.mii.lt/NA/

From: Lothar Reichel <reichel@math.kent.edu>
Subject: ToC, ETNA, vol. 47
Date: January 10, 2018

Electronic Transactions on Numerical Analysis (ETNA) 2017 Volume 47
Table of Contents

Vector estimates for f(A)b via extrapolation
M. Mitrouli and P. Roupa

Enhanced matrix function approximation
N. Eshghi and L. Reichel

Varying the s in your s-step GMRES
D. Imberti and J. Erhel

http://etna.mcs.kent.edu/volumes/2011-2020/vol47/
------ end -------

IPNet Digest Volume 25, Number 02 February 26, 2018

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

Today's Topics:
Workshop: Uncertainty Quantification and Computational Imaging at ICMS
Conference: 6th Int'l Conference on Engineering Optimization in Lisbon
Table of Contents: Journal of Inverse and Ill-posed Problems
Table of Contents: Inverse Problems

Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu

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

From: "Pereyra, Marcelo" <m.pereyra@hw.ac.uk>
Subject: Workshop on Uncertainty Quantification and Computational Imaging - April 23 & 24 - ICMS, Edinburgh UK
Date: February 20, 2018

Dear colleagues,

This is an announcement for a workshop on Uncertainty Quantification and Computational Imaging that will take place at the ICMS, Edinburgh, on April 23 and 24, 2018 (for details see http://www.icms.org.uk/uncertaintyquantification.php)

The workshop will bring together experts in MCMC and in computational imaging to discuss ideas related to performing uncertainty quantification in imaging problems. There will be two mini-courses, research talks by world-leading experts, and a poster session.

Registration link:
https://www.smartsurvey.co.uk/s/4006853CWUT/

Best wishes,
Marcelo Pereyra

Submitted by:?
Dr Marcelo Pereyra | School of Mathematical and Computer Sciences & Maxwell Institute for Mathematical Sciences
Room CM T.17 | Colin Maclaurin Building | Heriot-Watt University | Edinburgh EH14 4AS | United Kingdom
Email: m.pereyra@hw.ac.uk | Telephone: +44 (0) 131 451 3211 | Web site: http://www.macs.hw.ac.uk/~mp71/

From: ENGOPT2018 <engopt2018@engopt2018.com>
Subject: EngOpt2018 - Call-for-Papers
Date: January 31, 2018 at 5:25:27 PM PST
To: <ipowner@math.msu.edu>
Reply-To: ENGOPT2018 <engopt2018@engopt2018.com>, ENGOPT2018 <mail@engopt2018.tecnico.ulisboa.pt>

Call-for-Papers

EngOpt 2018 - 6th International Conference on Engineering Optimization
17 - 19 September 2018, Lisbon, Portugal

Dear Colleague:

It is our pleasure to invite you, your co-workers and students to present your research work on engineering optimization at the EngOpt 2018 Conference.

The main goal of EngOpt conferences is to periodically bring together engineers, applied mathematicians and computer scientists working on research, development and practical application of optimization methods in all engineering disciplines and applied sciences.

Note that the deadline for abstract submission is March 16, 2018, and that all abstracts must be submitted online.
For up-to-date information visit the the Conference web page:
http://engopt2018.tecnico.ulisboa.pt

We look forward to welcome you in Lisboa at EngOpt 2018.

Yours Truly

Helder C. Rodrigues
Jose Herskovits
Cristovao Mota Soares

EngOpt2018 Chairmen

EngOpt2018 Secretariat:

CPM - Centre for Mechanical Design
Instituto Superior Técnico
Av. Rovisco Pais, 1049-001 Lisboa, Portugal
Ph: +351 218417280
Fax: +351 218417915
Email: mail@engopt2018.tecnico.ulisboa.pt
Web: http://engopt2018.tecnico.ulisboa.pt

From: <noreply@degruyter.com>
Subject: Contents, 'Journal of Inverse and Ill-posed Problems'
Date: February 1, 2018

Journal of Inverse and Ill-posed Problems February 2018 Volume 26, Issue 1

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Partial inverse problems for the Sturm–Liouville operator on a star-shaped graph with mixed boundary conditions
Bondarenko, Natalia Pavlovna

A two-dimensional backward heat problem with statistical discrete data
Minh, Nguyen Dang / To Duc, Khanh / Tuan, Nguyen Huy / Trong, Dang Duc

A modified coupled complex boundary method for an inverse chromatography problem
Cheng, Xiaoliang / Lin, Guangliang / Zhang, Ye / Gong, Rongfang / Gulliksson, Mårten

Tensor based approach to the numerical treatment of the parameter estimation problems in mathematical immunology
Zheltkova, Valeriya V. / Zheltkov, Dmitry A. / Grossman, Zvi / Bocharov, Gennady A. / Tyrtyshnikov, Eugene E.

A regularized two-dimensional sampling algorithm
Chen, Weidong

Injectivity and weak*-to-weak continuity suffice for convergence rates in ?1-regularization
Flemming, Jens / Gerth, Daniel

Inverse problems in Pareto’s demand theory and their applications to analysis of stock market crises
Klemashev, Nikolay I. / Shananin, Alexander A. / Zhang, Shuhua

Multiscale Galerkin methods for the nonstationary iterated Tikhonov method with a modified posteriori parameter selection
Luo, Xingjun / Ouyang, Zhaofu / Zeng, Chunmei / Li, Fanchun

A combined numerical algorithm for reconstructing the mathematical model for tuberculosis transmission with control programs
Kabanikhin, Sergey / Krivorotko, Olga / Kashtanova, Victoriya

An inverse problem for the KdV equation with Neumann boundary measured data
Kumarasamy, Sakthivel / Hasanov, Alemdar

https://www.degruyter.com/view/j/jiip.2018.26.issue-1/issue-files/jiip.2018.26.issue-1.xml

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From: <noreply@iopscience.org>
Subject: Inverse Problems, Volume 34, Number 3, March 2018
Date: February 12, 2018

Inverse Problems March 2018 Volume 34, Number 3
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Special Issue Papers

Total variation superiorized conjugate gradient method for image reconstruction
Marcelo V W Zibetti, Chuan Lin, and Gabor T Herman

Limited-data x-ray CT for underwater pipeline inspection
N A B Riis, J Frøsig, Y Dong, and P C Hansen

Dynamic discrete tomography
Andreas Alpers, and Peter Gritzmann

Stability estimates for the local Radon transform
Joel Andersson, and Jan Boman

Papers

Analysis of the iteratively regularized Gauss–Newton method under a heuristic rule
Qinian Jin, and Wei Wang

Wavefront reconstruction from non-modulated pyramid wavefront sensor data using a singular value type expansion
Victoria Hutterer, and Ronny Ramlau

Convex blind image deconvolution with inverse filtering
Xiao-Guang Lv, Fang Li, and Tieyong Zeng

Solving ill-posed control problems by stabilized finite element methods: an alternative to Tikhonov regularization
Erik Burman, Peter Hansbo, and Mats G Larson

On the identification of multiple space dependent ionic parameters in cardiac electrophysiology modelling
Yassine Abidi, Mourad Bellassoued, Moncef Mahjoub, and Nejib Zemzemi

Reconstruction of local perturbations in periodic surfaces
Armin Lechleiter, and Ruming Zhang

The method of fundamental solutions for computing acoustic interior transmission eigenvalues
Andreas Kleefeld, and Lukas Pieronek

Direct sampling methods for inverse elastic scattering problems
Xia Ji, Xiaodong Liu, and Yingxia Xi

Topological optimality condition for the identification of the center of an inhomogeneity
Fioralba Cakoni, and Victor A Kovtunenko

Sampling-free Bayesian inversion with adaptive hierarchical tensor representations
Martin Eigel, Manuel Marschall, and Reinhold Schneider

http://iopscience.iop.org/issue/0266-5611/34/3
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IPNet Digest Volume 25, Number 03 April 05, 2018

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

Today's Topics:
Workshop on Numerical Analysis and Regularization for Inverse Problems at UCL
Inverse Problems Symposium 2018 at MSU
Table of Contents: Inverse Problems in Science and Engineering
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://ipnet.math.msu.edu

From: "Betcke, Marta" <m.betcke@ucl.ac.uk>
Subject: Workshop on numerical analysis and regularization for inverse problems, 26-27 April 2018, UCL
Date: March 15, 2018

We would like to bring to your attention the workshop on numerical analysis and regularization for inverse problems, 26-27 April 2018. The workshop is a part of both the series of EPSRC Inverse Problems Network Meetings and LMS Workshops on Inverse Problems, and it is hosted by the Centre of Inverse Problems at UCL.

Speakers:
Erik Burman, UCL, United Kingdom
Maarten de Hoop, Rice University, United States
Romina Gaburro, University of Limerick, Republic of Ireland
Ivan Graham, University of Bath, United Kingdom
Nuutti Hyvönen, Aalto University, Finland
Paul Ledger, Swansea University, United Kingdom
Peter Maass, University of Bremen, Germany
Virginia Selgas, Universidad de Oviedo, Spain

Registration is open via the website until the 19th of April. If you wish to present a poster please email the title and abstract to m.betcke[at]ucl.ac.uk by 19th of April. Registration is free to the network members and otherwise there is a fee of £40 exclusive / £70 inclusive conference dinner.

Limited number of travel bursaries are available for UK-based PhD students presenting a poster.

For further details please refer to the workshop's website http://www.cs.cf.ac.uk/invprob3/

Organisers:
Marta Betcke
Natalia Bochkina
Malcolm Brown
Sean Holman
Lauri Oksanen

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

From: "Dolan, Kirk" <dolank@anr.msu.edu>
Subject: IPS 2018 IPNet
Date: March 26, 2018 at 7:10:24 AM PDT

2018 Inverse Problems Symposium June 3-5. Michigan State University

Abstract Submission and Registration are open!

https://inverseproblems2018.org/

We also welcome session organizers. Please contact Kirk Dolan if you wish to organize a session.

This is the 31st in the series of National and International meetings on Inverse Problems that were initiated at Michigan State University in 1988. Papers are solicited from all areas involving inverse methods and their applications. The symposium is organized in a single-session format to foster cross-disciplinary interaction. Solicited topics include:

A. Mathematical and Statistical Aspects of Inverse Problems
    1. Theory and Methods of Inverse Problems
    2. Stability and Error Analysis
B. Design of Experiments
    1. Optimal Design of Experiments
    2. Analysis of Actual Experimental Data
C. Applications
    1. Heat Transfer, Applied Mechanics, Controls, Other Engineering Disciplines
    2. Biology, Biochemistry, Genetics, and Medicine
    3. Nondestructive Evaluation
    4. Nanoengineering
    5. Tomography and Inverse Scattering
    6. Geology and Environmental Phenomena
    7. Economics
    8. Food and Bioprocessing
    9. Bioengineering
    10. Packaging

Contact Information:
Honorary Chairman: Dr. James V. Beck, Professor Emeritus, Michigan State University, beck@msu.edu.

Conference Chairman: Kirk Dolan, Professor
Department of Food Science & Human Nutrition
Department of Biosystems & Agricultural Engineering
Michigan State University East Lansing, MI 48224
Phone: (517) 353-3333
dolank@msu.edu

From: "Robinson, Justin" <Justin.Robinson@tandf.co.uk>
Subject: Inverse Problems in Science and Engineering, Volume 26, Issue 4, April 2018 is now available online on Taylor & Francis Online
Date: February 27, 2018

Inverse Problems in Science and Engineering April 2018 Volume 26, Issue 4

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https://tandfonline.com/toc/gipe20/26/4?nav=tocList&

Submitted by: Justin Robinson
Managing Editor | Taylor & Francis | Routledge Journals
Mathematics | Statistics | History of Science | Science, Technology & Society
4 Park Square, Milton Park, Abingdon, Oxon, OX14 4RN, UK
Tel: +44 (0)20 755 19470 e-mail: justin.robinson@tandf.co.uk

From: <noreply@iopscience.org>
Subject: Inverse Problems, Volume 34, Number 4, April 2018
Date: March 16, 2018

Inverse Problems April 2018 Volume 34, Number 4

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Special Issue Papers:

Computation of forces from deformed visco-elastic biological tissues
José J Muñoz, David Amat, and Vito Conte

Atmospheric turbulence profiling with unknown power spectral density
Tapio Helin, Stefan Kindermann, Jonatan Lehtonen, and Ronny Ramlau

Blind image fusion for hyperspectral imaging with the directional total variation
Leon Bungert, David A Coomes, Matthias J Ehrhardt, Jennifer Rasch, Rafael Reisenhofer, and Carola-Bibiane Schönlieb

Tensor tomography on Cartan–Hadamard manifolds
Jere Lehtonen, Jesse Railo, and Mikko Salo

Papers:

Theoretical stability in coefficient inverse problems for general hyperbolic equations with numerical reconstruction
Jie Yu, Yikan Liu, and Masahiro Yamamoto

Sparsity-promoting and edge-preserving maximum a posteriori estimators in non-parametric Bayesian inverse problems
Sergios Agapiou, Martin Burger, Masoumeh Dashti, and Tapio Helin

Exponential instability in the fractional Calderón problem
Angkana Rüland, and Mikko Salo

A time reversal algorithm in acoustic media with Dirac measure approximations
Élie Bretin, Carine Lucas, and Yannick Privat

Monotonicity-based electrical impedance tomography for lung imaging
Liangdong Zhou, Bastian Harrach, and Jin Keun Seo

Total variation regularization for seismic waveform inversion using an adaptive primal dual hybrid gradient method
Peng Yong, Wenyuan Liao, Jianping Huang, and Zhenchuan Li

Recovery of singularities from a backscattering Born approximation for a biharmonic operator in 3D
Teemu Tyni

Inverse scale space decomposition
Marie Foged Schmidt, Martin Benning, and Carola-Bibiane Schönlieb

Inverse source problems in elastodynamics
Gang Bao, Guanghui Hu, Yavar Kian, and Tao Yin

http://iopscience.iop.org/issue/0266-5611/34/4

From: <noreply@degruyter.com>
Subject: Contents,'Journal of Inverse and Ill-posed Problems'
Date: March 23, 2018

Journal of Inverse and Ill-posed Problems April 2018 Volume 26, Issue 2

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https://www.degruyter.com/view/j/jiip.2018.26.issue-2/issue-files/jiip.2018.26.issue-2.xml
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IPNet Digest Volume 25, Number 04 April 30, 2018

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

Today's Topics:

Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu

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

From: Chemnitz Symposium on Inverse Problems 2018 <csip2018@tu-chemnitz.de>
Subject: Registration open for Chemnitz Sympisum on Inverse Problems
Date: April 23, 2018

Dear Colleagues,

we would like to announce that the online registration for

Chemnitz Symposium on Inverse Problems, September 27 and 28, 2018

is now open: https://www.chemnitz-am.de/ipsym2018/registration.php

The symposium will be one of three events of the Chemnitz September of Applied Mathematics.
You are cordially invited to participate at the symposium.
If there are questions, please do not hesitate to contact us. It would be fine if you could give this information to your collaborators and coauthors.

Welcome to Chemnitz!

Yours sincerely,

Jens Flemming
on behalf of the organizing committee

TU Chemnitz
Faculty of Mathematics
D-09107 Chemnitz, Germany

From: Daniel Baumgarten <notifications@exordo.com>
Subject: OIPE 2018 - Submission Deadline Extended
Date: April 27, 2018

2018, 11th to 13th September 2018

OIPE 2018 - 15th International Workshop on Optimization and Inverse Problems in Electromagnetism
http://www.oipe2018.at

Dear colleagues,
we are glad to announce an extension of the deadline for abstract submission to OIPE 2018 in response to multiple requests. The new deadline is Monday, May 14th.

Submit today at http://www.oipe2018.at/index.php/paper-information/digest-submission

We encourage you to participate in OIPE 2018, which will be held on September 11th-13th, 2018, in Hall in Tirol / Innsbruck, Austria. The topics of the workshop will range from theoretical aspects and fundamentals over algorithms and applications to software methodologies. The confirmed speakers include

- Richard Baraniuk (Rice University, USA)
- Stéphane Clénét (Arts et Métiers ParisTech, France)
- Josep M. Guerrero (Aalborg University, Denmark)
- David A. Lowther (Mc Gill University, Canada)
- Christophe Geuzaine, Erin Kuci (University of Liège, Belgium)
- Sebastian Schöps (Technische Universität Darmstadt).

Furthermore, we proudly announce that the IET SMT award for best paper presented by a young researcher will be conferred within OIPE 2018.

Prior to the workshop, a one day doctoral course is organized. International experts will teach PhD students and researchers entering the field in selected aspects of optimization and inverse problems in electromagnetism.

Please find enclosed the Call for Papers. Further information about the workshop and the preceding doctoral course can be found on the website www.oipe2018.at

We are looking forward to meeting you all in Hall in Tirol at the OIPE 2018.

Prof. Dr. Daniel Baumgarten
Chairman OIPE 2018

Download the Oipe2018 3rd call for papers final.pdf
at
https://oipe2018.exordo.com/files/messages/77/OIPE2018_3rd_Call_for_Papers_FINAL.pdf

---

From: Pam Bye <Pam.Bye@ima.org.uk>
Subject: 3rd IMA Conference on the Mathematical Challenges of Big Data
Date: April 11, 2018

3RD IMA CONFERENCE ON THE MATHEMATICAL CHALLENGES OF BIG DATA
Monday 10th - Tuesday 11th December 2018
Double Tree by Hilton Hotel London - West End

CALL FOR ABSTRACTS

Data-driven analysis is increasingly on the critical path for performance advantage in many organisations, both public and commercial. This raises

continuous challenges for rigorous analysis to derive reliable insights from data at very large scale, often with potential artefacts and sampling bias, adding to change variation. This conference brings together researchers and practitioners to signpost developments in the state-of-the-art and find common ground where theory and practice meet to maximise impact in the digital economy. It is a forum for networking and to showcase the very latest research in a broad range of topics. Each session will feature an invited talk by an expert speaker.

Invited Speakers
To be confirmed

Topics of interest
Papers should describe mathematical challenges specific to the following topics and their application in large-scale use cases:

- Mathematical challenges arising from Big Data
- Mathematical Innovation in Data Science
- Multidisciplinary applications of Big Data
- Data assimilation and inverse problems from novel sensors
- Applications of block-chain including cryptocurrencies
- Persistent homology
- Optimal and dynamic sampling
- Stream data management
- Uncertainty modelling & generalisation error bounds
- Network analysis & web mining methods
- Trend tracking & novelty detection
- Dynamic segmentation & clustering
- Deep learning
- Transfer learning
- Context awareness
- Multimodal data linkage
- Integration of multi-scale models
- Mining of unstructured, spatio-temporal & multimedia data
- IoT and large sensor networks
- Predictive analytics and recommender systems
- Real-time forecasting
- Access on-demand in distributed databases
- Privacy protecting data mining
- Homomorphic encryption
- Data integrity & provenance methods
- Visualization methods
- Mathematics underpinning large-scale use cases

Call for Abstracts
Papers will be accepted for the conference based on a 300-500 word abstract for oral or poster presentation. We welcome abstracts to be submitted by Friday 28 September 2018 via https://my.ima.org.uk Please indicate whether your title is intended for oral or poster presentation. Note: If you are an IMA Member or you have previously registered for an IMA conference, then you are already on our database. Please “request a new password” using the email address previously used, to log in.

Programme Committee
Paulo Lisboa, Liverpool John Moores University (Chair)
Patrick Rubin-Delanchy and Dan Lawson, University of Bristol (Co-Chairs)
Ben Dias, Royal Mail
Iain Duff, STFC, Rutherford
Peter Grindrod, University of Oxford
Richard Pinch, Cheltenham

Jennifer Scott, Science & Technology Facilities Council
Jared Tanner, University of Oxford

Further information
For further information on this conference, please visit the conference webpage:
https://ima.org.uk/9104/3rd-ima-conference-on-the-mathematical-challenges-of-big-data/

For general conference queries please contact Lizzi Lake, Conference Officer
Email: conferences@ima.org.uk Tel: +44 (0) 1702 354 020
Institute of Mathematics and its Applications, Catherine Richards House, 16 Nelson Street, Southend-on-Sea, Essex, SS1 1EF, UK.

Submitted by: Pamela Bye
Conference Support Officer
Institute of Mathematics and its Applications
Tel: 01702 354020

From: Masoumeh Dashti <M.Dashti@sussex.ac.uk>
Subject: New research and PhD positions in Bayesian Inference at University of Sussex
Date: April 11, 2018

One Research Fellow and one funded PhD position in ``Bayesian Inference and Approximations of High-Dimensional Network Models" is available at the University of Sussex, Mathematics Department:

http://www.sussex.ac.uk/about/jobs/research-fellow-in-mathematics-3077

http://www.sussex.ac.uk/study/fees-funding/phd-funding/view/911-Bayesian-Inference-and-Approximations-of-High-Dimensional-Network-Models

Thank you very much.

Best wishes,
-Masoumeh Dashti

From: <noreply@iopscience.org>
Subject: Inverse Problems, Volume 34, Number 5, May 2018
Date: April 25, 2018

Inverse Problems May 2018 Volume 34, Number 5
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Special Issue Paper

An example of non-uniqueness for the weighted Radon transforms along hyperplanes in multidimensions
F O Goncharov, and R G Novikov

Compton camera imaging and the cone transform: a brief overview
Fatma Terzioglu, Peter Kuchment, and Leonid Kunyansky

Quantitative photoacoustic imaging in the acoustic regime using SPIM
Alexander Beigl, Peter Elbau, Kamran Sadiq, and Otmar Scherzer

Papers

Inversion of residual stress profiles from ultrasonic Rayleigh wave dispersion data
P Mora, and M Spies

Sparsest representations and approximations of an underdetermined linear system
Patrick J C Tardivel, Rémi Servien, and Didier Concordet

Doppler synthetic aperture radar interferometry: a novel SAR interferometry for height mapping using ultra-narrowband waveforms
Birsen Yaz?c?, Il-Young Son, and H Cagri Yanik

Frozen Gaussian approximation for 3D seismic tomography
Lihui Chai, Ping Tong, and Xu Yang

On increasing stability in the two dimensional inverse source scattering problem with many frequencies
Mozhgan Nora Entekhabi, and Victor Isakov

Comparison of the genetic algorithm and incremental optimisation routines for a Bayesian inverse modelling based network design
A Nickless, P J Rayner, B Erni, and R J Scholes

Inverse problems with nonnegative and sparse solutions: algorithms and application to the phase retrieval problem
Pham Quy Muoi, Dinh Nho Hào, Sujit Kumar Sahoo, Dongliang Tang, Nguyen Huu Cong, and Cuong Dang

On convergence and convergence rates for Ivanov and Morozov regularization and application to some parameter identification problems in elliptic PDEs
Barbara Kaltenbacher, and Andrej Klassen

Parameterizations for ensemble Kalman inversion
Neil K Chada, Marco A Iglesias, Lassi Roininen, and Andrew M Stuart

Backward semi-linear parabolic equations with time-dependent coefficients and local Lipschitz source
Dinh Nho Hào, Nguyen Van Duc, and Nguyen Van Thang

A note on convergence of solutions of total variation regularized linear inverse problems
José A Iglesias, Gwenael Mercier, and Otmar Scherzer

Mathematical analysis of the 1D model and reconstruction schemes for magnetic particle imaging
W Erb, A Weinmann, M Ahlborg, C Brandt, G Bringout, T M Buzug, J Frikel, C Kaethner, T Knopp, T März, M Möddel, M Storath, and A Weber

Modified truncated randomized singular value decomposition (MTRSVD) algorithms for large scale discrete ill-posed problems with general-form regularization
Zhongxiao Jia, and Yanfei Yang

http://iopscience.iop.org/issue/0266-5611/34/5
------ end -------

IPNet Digest Volume 25, Number 05 June 07, 2018

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

Today's Topics:
IPNet Server Issues
11th International Conference on Image and Signal Processing, Beijing, China
5th European Conference on Computational Optimization
Research Associate: Mathematical Image Analysis and Machine Learning, Cambridge, UK
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://ipnet.math.msu.edu

Subject: IPNet Server Issues

We have had some problems with the IPNet mail server over the past few weeks during which some email messages sent to the IPNet may have been lost. Our apologies if you were unable to contact us during this time. It is our understanding that the earlier problems have now been resolved.

--pkl

From: Prof Li <CISP-BMEI-cfp@ecnu.edu.cn>
Subject: CISP-BMEI 2018 Deadline 10 July, Beijing, China
Date: May 6, 2018

Dear Colleague,

We cordially invite you to submit a paper to the upcoming 2018 11th International Congress on Image and Signal Processing, BioMedical Engineering and Informatics (CISP-BMEI 2018), to be held in Beijing, China, 13-15 October 2018.

Beijing is the capital of the People’s Republic of China, the country’s center for politics, culture, international exchanges and technological innovation. It is home to numerous historical sites and cultural landmarks, including the Forbidden City, the Great Wall, the Temple of Heaven, the Summer Palace, the Ming Tombs, all of which have been listed as UNESCO World Heritages. Traditional local art performances and crafts, such as Peking Opera and Cloisonné, are also renowned throughout the world.

As with past CISP-BMEI conferences, all papers in conference proceedings will be submitted to EI Compendex, Scopus, CPCI (ISI/ISTP), and IEEE Xplore. Substantially extended versions of best papers will be considered for publication in a CISP-BMEI special issue of a SCI-indexed journal. CISP-BMEI 2018 is technically co-sponsored by the IEEE Engineering in Medicine and Biology Society (pending). The past conference proceedings

from 2008 to 2015 appeared as 2 separate (but co-located) conferences, i.e., CISP and BMEI. CISP-BMEI has become a single conference since 2016.

CISP-BMEI 2018 is a premier international forum for scientists and researchers to present the state of the art of multimedia, signal processing, biomedical engineering and informatics. The registration fee of US*D480 includes proceedings, lunches, dinners, banquet, coffee breaks, and all technical sessions.

To promote international participation of researchers from outside the country/region where the conference is held (i.e., China's mainland), researchers outside of China's mainland are encouraged to propose invited sessions. The first author of each paper in an invited session must not be affiliated with an organization in China's mainland. All papers in the invited sessions can be marked as "Invited Paper". The organizer(s) for each invited session with at least 6 registered papers will jointly enjoy an honorarium of US*D 500. Invited session organizers will solicit submissions, conduct reviews and recommend accept/reject decisions on the submitted papers. Invited session organizers will be able to set their own submission and review schedules, as long as a list of recommended papers is determined by 18 August 2018. Each invited session proposal should include: (1) the name, bio, and contact information of each organizer of the invited session; (2) the title and a short synopsis of the invited session. Please send your proposal to cisp-bmei@mail.buct.edu.cn
For more information, visit the conference web page:

  http://research.cs.buct.edu.cn:8080/CISP2018

If you have any questions after visiting the conference web page, please email the secretariat at cisp-bmei@mail.buct.edu.cn

Join us at this major event in historical Beijing !!!

Organizing Committee
cisp-bmei@mail.buct.edu.cn

P.S.: Kindly forward to your colleagues and students in your school/department.

From: Ville Kolehmainen <ville.kolehmainen@uef.fi>
Subject: 5th European Conference on Computational Optimization
Date: Wednesday, June 6, 2018

EUCCO 2018 - deadline for contributions is extended to June 15.

We would like to draw your attention to the 5th European Conference on Computational Optimization - EUCCO 2018, taking place in Trier in from September 10 - 12, 2018.

The scope of this conference series is quite broad as it aims to bring together scientists from a diversity of subdisciplines, such as computational optimization, algorithms and applications. The upcoming conference will place special emphasis on certain aspects of optimization, found in the focus sessions, while still keeping its more traditional focus on large scale optimization, optimization with partial differential equations, and numerical optimization algorithms and software. More information can be found at https://alop.uni-trier.de/eucco2018/

Registration is still open!

From: Carola-Bibiane Schönlieb <cbs31@cam.ac.uk>
Subject: Research Associate in Mathematical Image Analysis and Machine Learning in Cambridge, UK
Date: May 2, 2018

Dear All,

I would be glad if you could bring the following job opening at the University of Cambridge to the attention of interested candidates.
See http://www.jobs.cam.ac.uk/job/17355/

Job title: Research Associate in Mathematical Image Analysis and Machine Learning for Better Food Microstructures

The Cantab Capital Institute for the Mathematics of Information (CCIMI) and the Cambridge Image Analysis group (CIA) in collaboration with Unilever are seeking strong candidates for a Research Associate position to work on a collaborative project on the analysis of microstructures in food products. The post holder will be employed by the University of Cambridge and affiliated with both CCIMI and CIA.

The research activity of the successful candidate will focus on the development of image analysis methods for segmenting and classifying microstructures in electron microscopy images of food microstructures. Further information is available in the Further Particulars:
http://www.jobs.cam.ac.uk/job/17355/file/v2__cantab_fps_ra_pub.pdf

CLOSING DATE: 15 June 2018

Thank you and all the best!
Carola Schönlieb

From: <noreply@iopscience.org>
Subject: Inverse Problems, Volume 34, Numbers 6-7, June-July 2018
Date: May 8, 2018

Inverse Problems June 2018 Volume 34, Number 6

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Special Issue Paper:

Papers:

http://iopscience.iop.org/issue/0266-5611/34/6

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Inverse Problems July 2018 Volume 34, Number 7

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Special issue paper:

Papers:

3D Compton scattering imaging and contour reconstruction for a class of Radon transforms
Gaël Rigaud, and Bernadette N Hahn

Imaging of isotropic and anisotropic conductivities from power densities in three dimensions
François Monard, and Donsub Rim

Linear sampling method applied to non destructive testing of an elastic waveguide: theory, numerics and experiments
Vahan Baronian, Laurent Bourgeois, Bastien Chapuis, and Arnaud Recoquillay

Inexact Newton regularization combined with gradient methods in Banach spaces
Fábio Margotti

Ensemble-marginalized Kalman filter for linear time-dependent PDEs with noisy boundary conditions: application to heat transfer in building walls
Marco Iglesias, Zaid Sawlan, Marco Scavino, Raúl Tempone, and Christopher Wood

Fluorescence molecular imaging based on the adjoint radiative transport equation
Fatmir Asllanaj, Ahmad Addoum, and Jean Rodolphe Roche

Online learning in optical tomography: a stochastic approach
Ke Chen, Qin Li, and Jian-Guo Liu

Inverse medium scattering from periodic structures with fixed-direction incoming waves
Peter Gibson, Guanghui Hu, and Yue Zhao

On inverse problems for piezoelectric equation: stability analysis and numerical method
Yibin Ding, Yuhui Sun, and Xiang Xu

The refined impedance transform for 1D acoustic reflection data
Peter C Gibson

http://iopscience.iop.org/issue/0266-5611/34/7

From: noreply@degruyter.com <noreply@degruyter.com>
Subject: Contents, 'Journal of Inverse and Ill-posed Problems'
Date: Saturday, May 26, 2018

Journal of Inverse and Ill-posed Problems June 2018 Volume 26, Issue 3

Error estimates for the simplified iteratively regularized Gauss–Newton method in Banach spaces under a Morozov-type stopping rule
Mahale, Pallavi / Dixit, Sharad Kumar

An optimization algorithm for determining a point heat source position in a 2D domain using a hybrid metaheuristic
Kurt, Mehmet / Günel, Korhan

Lipschitz continuity of the Fréchet gradient in an inverse coefficient problem for a parabolic equation with Dirichlet measured output
Hasanov, Alemdar

On finding a cavity in a thermoelastic body using a single displacement measurement over a finite time interval on the surface of the body
Ikehata, Masaru

On dynamical reconstruction of an input in a linear system under measuring a part of coordinates
Maksimov, Vyacheslav I.

A straightforward proof of Carleman estimate for second-order elliptic operator and a three-sphere inequality
Baldassari, Lorenzo / Vessella, Sergio

Information content in data sets: A review of methods for interrogation and model comparison
Banks, H. Thomas / Joyner, Michele L.

An inverse problem in corrosion detection: Stability estimates
Choulli, Mourad

https://www.degruyter.com/view/j/jiip.2018.26.issue-3/issue-files/jiip.2018.26.issue-3.xml
------ end -------

IPNet Digest Volume 25, Number 06 June 30, 2018

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

Today's Topics:
15th International Workshop on Optimization & Inverse Problems in Electromagnetism
Chemnitz Symposium on Inverse Problems 2018
Positions Available in Research Group KU Leuven ESAT-STADIUS (E-DUALITY)
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://ipnet.math.msu.edu

From: OIPE 2018 <notifications@exordo.com>
Subject: OIPE 2018: Registration now open
Date: Monday, June 18, 2018

2018, 11th to 13th September

OIPE 2018 - 15th International
Workshop on Optimization and Inverse
Problems in Electromagnetism

http://www.oipe2018.at

Dear Colleague,

we are happy to inform you that registration for OIPE 2018 is now open. Early bird registration fees will be available until July 9th, 2018. In order to start your registration, log in to your OIPE 2018 Dashboard at https://oipe2018.exordo.com/login

All information about the OIPE 2018 workshop including scientific and social program as well as travel and accommodation information is available on www.oipe2018.at

We look forward to welcoming you at OIPE 2018 in Hall in Tirol!

Yours Sincerely,
Daniel Baumgarten?Chairman OIPE 2018

Click here to view an online version of this email:
https://oipe2018.exordo.com/messages/view/155eb61c900b1a3f89fd91f09d4e5b9c_11975

From: Chemnitz Symposium on Inverse Problems 2018 <csip2018@tu-chemnitz.de>
Subject: Early bird registration Chemnitz Symposium on Inverse Problems
Date: Friday, June 22, 2018

Dear Colleagues,

registration for the Chemnitz Symposium on Inverse Problems 2018 is still open.

Please note that early bird registration with reduced fee ends on June 30. Late registration is possible until end of July.

Online registration and further information is available under

https://urldefense.proofpoint.com/v2/url?u=https-3A__www.chemnitz-2Dam.de_ipsym2018_registration.php&d=DwIBaQ&c=nE__W8dFE-shTxStwXtp0A&r=e3hMoihI-CgaL4e-VWcjOhsJb6Lg8FbptIXTFDPUMuc&m=WW8IrXYetSqQOn-X097x1SdyvscSJCT_IZvmRxvAVbU&s=I-GN1o9IOVfROrybINebTYW4iGS7Z9Jp75LpZ9pIzVc&e=

If there are any questions, please do not hesitate to contact us by email

csip2018@tu-chemnitz.de

We are looking forward seeing you in Chemnitz!

Yours sincerely

Jens Flemming

on behalf of the organizing committee

--
TU Chemnitz
Faculty of Mathematics
D-09107 Chemnitz, Germany
https://urldefense.proofpoint.com/v2/url?u=https-3A__www.chemnitz-2Dam.de_ipsym2018&d=DwIBaQ&c=nE__W8dFE-shTxStwXtp0A&r=e3hMoihI-CgaL4e-VWcjOhsJb6Lg8FbptIXTFDPUMuc&m=WW8IrXYetSqQOn-X097x1SdyvscSJCT_IZvmRxvAVbU&s=SxIIhsRaEBYL4u_Y6imwmiNRP0n6NR1ry4VYRV9O5vk&e=

From: Johan Suykens <Johan.Suykens@esat.kuleuven.be>
Subject: PhD and Postdoc positions KU Leuven (ERC Advanced grant E-DUALITY)
Date: Tuesday, June 12, 2018

The research group KU Leuven ESAT-STADIUS is currently offering 3 PhD and 3 Postdoc (1 year, extendable) positions within the framework of the ERC (European Research Council) Advanced Grant E-DUALITY
https://urldefense.proofpoint.com/v2/url?u=http-3A__www.esat.kuleuven.be_stadius_E&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=WLCD7P_qFvtR2U65jxXaAFl9QvHSM651jDWzmxdnWSs&s=4QCOE4tsg0f2PJntS1vhbf3tz4lXBorZ_XtVkcbp3tI&e=
(PI: Johan Suykens) on Exploring
Duality for Future Data-driven Modelling.

Within this ERC project E-DUALITY we aim at realizing a powerful and unifying framework (including e.g. kernel methods, support vector machines, deep learning, multilayer networks, tensor-based models and others) for handling different system complexity levels, obtaining optimal model representations and designing efficient algorithms.

The research positions relate to the following possible topics:
-1- Duality principles
-2- Multiple data sources and coupling schemes
-3- Manifold learning and semi-supervised schemes
-4- Optimal prediction schemes
-5- Scalability, on-line updating, interpretation and visualization
-6- Mathematical foundations
-7- Matching model to system characteristics

For further information and on-line applying, see
https://urldefense.proofpoint.com/v2/url?u=https-3A__www.kuleuven.be_personeel_jobsite_jobs_54681979&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=WLCD7P_qFvtR2U65jxXaAFl9QvHSM651jDWzmxdnWSs&s=GmGMlvPRRu21NpI8sZRVQe3SnGTmix2sf3Deohe3EMs&e=" (PhD positions) and
https://urldefense.proofpoint.com/v2/url?u=https-3A__www.kuleuven.be_personeel_jobsite_jobs_54681807&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=WLCD7P_qFvtR2U65jxXaAFl9QvHSM651jDWzmxdnWSs&s=8KP0-HQXYyVMLKb-Ap76fKZ7Q4yksI7RjxLL9v-xkEU&e=" (Postdoc positions)
(click EN for English version).

The research group ESAT-STADIUS
https://urldefense.proofpoint.com/v2/url?u=http-3A__www.esat.kuleuven.be_stadius&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=WLCD7P_qFvtR2U65jxXaAFl9QvHSM651jDWzmxdnWSs&s=zu6KLPOueZINOGrWeIxrUFabLlcjj2kf01OvbUsxucY&e= at
the university KU Leuven Belgium provides an excellent research environment being active in the broad area of mathematical engineering, including data-driven modelling, neural networks and machine learning, nonlinear systems and complex networks, optimization, systems and control, signal processing, bioinformatics and biomedicine.

From: Robinson, Justin <Justin.Robinson@tandf.co.uk>
Subject: Inverse Problems in Science and Engineering, Volume 26, Issue 9, September 2018 is now available online on Taylor & Francis Online
Date: Wednesday, June 20, 2018

Inverse Problems in Science and Engineering September 2018 Volume 26, Issue 9

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Original Articles
Simultaneous reconstruction of the time-dependent Robin coefficient and heat flux in heat conduction problems?
Talaat Abdelhamid, A. H. Elsheikh, Ahmed Elazab, S. W. Sharshir, Ehab S. Selima & Daijun Jiang

On efficient reconstruction of boundary data with optimal placement of the source points in the MFS: application to inverse Stefan problems?
G. M. M. Reddy, M. Vynnycky & J. A. Cuminato

Developments in quantitative dimensional synthesis (1970–present): four-bar path and function generation?
Wen-Tzong Lee & Kevin Russell

Effects of wall thickness and material property on inverse heat conduction analysis of a hollow cylindrical tube
Jung-Hun Noh, Dong-Bin Kwak & Se-Jin Yook

Structural performance evaluation of an aged structure using a modified plasticity model in inverse solution method
Mojtaba Labibzadeh, Alireza Firouzi & Hamid R. Ghafouri

Thermo-elastic material parameters identification using modified error in constitutive equation approach?
Shyamal Guchhait, Biswanath Banerjee & Jayaram Alla

https://www.tandfonline.com/toc/gipe20/26/9

Submitted by: Justin Robinson
Managing Editor | Taylor & Francis | Routledge Journals
Mathematics | Statistics | History of Science | Science, Technology & Society
4 Park Square, Milton Park, Abingdon, Oxon, OX14 4RN, UK
Tel: +44 (0)20 755 19470
e-mail: justin.robinson@tandf.co.uk

From: noreply@iopscience.org <noreply@iopscience.org>
Subject: Inverse Problems, Volume 34, Number 8, August 2018
Date: Thursday, June 28, 2018

Inverse Problems August 2018 Volume 34, Number 8
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Topical Review

Mathematical models for magnetic particle imaging
Tobias Kluth

Special issue papers

Three dimensional Compton scattering tomography
James W Webber, and William R B Lionheart

Magnetic resonance-based imaging of human electric properties with phaseless contrast source inversion
Alessandro Arduino, Oriano Bottauscio, Mario Chiampi, and Luca Zilberti

Coupled regularization with multiple data discrepancies
Martin Holler, Richard Huber, and Florian Knoll

Papers

Bayesian inverse problems with unknown operators
Mathias Trabs

Uniqueness results on phaseless inverse acoustic scattering with a reference ball
Deyue Zhang, and Yukun Guo

A continuous adjoint for photo-acoustic tomography of the brain
Ashkan Javaherian, and Sean Holman

A new approach to identification of input-driven dynamical systems from probability densities
Xiaokai Nie, Mark Birkin, and Jingjing Luo

Potential reconstruction for a class of hyperbolic systems from incomplete measurements
Nicolás Carreño, Roberto Morales, and Axel Osses

Using eigenvalues to detect anomalies in the exterior of a cavity
S Cogar, D Colton, and P Monk

Extended sampling method in inverse scattering
Juan Liu, and Jiguang Sun

A fast subspace optimization method for nonlinear inverse problems in Banach spaces with an application in parameter identification
Anne Wald

A Biot model for the determination of material parameters of cancellous bone from acoustic measurements
Hua Chen, Robert P Gilbert, and Philippe Guyenne

A hierarchical Bayesian perspective on majorization-minimization for non-convex sparse regression: application to M/EEG source imaging
Yousra Bekhti, Felix Lucka, Joseph Salmon, and Alexandre Gramfort

http://iopscience.iop.org/issue/0266-5611/34/8
------ end -------

IPNet Digest Volume 25, Number 07 July 31, 2018

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

Today's Topics:
5th International Symposium on Inverse Problems, Design and Optimization, IPDO2019
International Conference on Sensing and Imaging, ICSI 2018
Conference on Mathematical and Numerical Approaches for Multi-Wave Inverse Problems, 2019
PhD, Postdoc Positions: Optimization Frameworks for Deep Kernel Machines
Postdoc Position: Algorithms for Image Reconstruction in Spectral Computed Tomography
Table of Contents: Inverse Problems and Imaging
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://ipnet.math.msu.edu

From: George Dulikravich <dulikrav@fiu.edu>?
Subject: IPDO2019 announcement and first call for papers
Date: Sunday, July 1, 2018 at 4:38 AM?

Announcement and first call for papers for 5th international symposium on

INVERSE PROBLEMS, DESIGN AND OPTIMIZATION - IPDO2019
Tianjin, P. R. China
September 24-26, 2019
http:/ipdo2019.ipdos.org

IPDO sequence of international symposia's main objective is to bring three communities of researchers (inverse problems, multidisciplinary design theory and optimization experts) together in a unique international forum that provides an excellent basis for cross-fertilization of ideas, as well as for the creation of new synergistic approaches and methodologies.
Contributed, invited and keynote papers dealing with robust, efficient solution methods in multidisciplinary practical applications are highly encouraged, such as in nanotechnology, chemistry, physics, aeronautics, astronautics, micro-electronics, bio-medicine, transport and sensing of pollutants, materials design and processing, remote sensing, non-destructive evaluation, variable material property determination, acceleration of single-objective and many-objective optimization algorithms, metamodels for high-dimensional problems, uncertainty quantification, unsupervised deep learning algorithms, real time decision making, and others.
Successful previous versions of the IPDO Symposium were held in Rio de Janeiro, Brazil (2004), Miami Beach, USA (2007), Joao Pessoa, Brazil (2010) and Albi, France (2013).

SUBMISSION OF CONTRIBUTED ABSTRACTS AND FULL PAPERS
Authors should send a two-page abstract in pdf (Portable Document Format) to IPDO2019@HEBUT.EDU.CN as an attachment to their e-mail message by

March 15, 2019. Authors of inverse problems abstracts should also consider submitting full papers for review and possible publication in the special issues of Inverse Problems in Science and Engineering.

CHAIR OF THE IPDO2019
Prof. Xu Han
President of Hebei University
Tianjin, China
xhan@hebut.edu.cn
HONORARY CO-CHAIRS OF THE IPDO2019
Prof. George S. Dulikravich
Florida International University, Miami, USA
Profs. Helcio R. B. Orlande and Marcelo J. Colaco
Federal University of Rio de Janeiro, Brazil

INTERNATIONAL ORGANIZING COMMITTEE
Alifanov, O. (Russia), Bonett, M. (France), Cheng, G.D. (China), Cheng, J. (China), Coello Coello, C.A, (Mexico), Duan, B.Y. (China), Egorov, I.N. (Russia), Friswell, M. (UK), Ghattas, O. (USA), Hao, D.N. (Vietnam), Hasanoglu, A. (Turkey), Klibanov, M. (USA), Lesnic, D. (UK), Liu, G.R. (USA), Marin, L. (Romania), Natterer, F. (Germany), Potthast, R. (Germany), Ostrowski, Z. (Poland), Romanov, V.G. (Russia), Sebu, C. (Malta), Silva Neto, A. (Brazil), Slodicka, M. (Belgium), Watzenig, D. (Austria), Yagola, A.G. (Russia), Yuan, Y.X. (China).

IMPORTANT DATES
January 31, 2019 One-page proposals for organizing invited sessions with 5-6 speakers each
March 15, 2019 Two-page abstracts due April 23, 2019 Abstract acceptance
June 15, 2019 Full papers due July 15, 2019 Full paper acceptance
July 1, 2019 - August 24, 2019 Early registration

LOCATION
IPDO2019 Symposium will be held in Holiday Inn Riverside, Tianjin, China, only 30 minutes by a bullet train from Beijing (https://www.ihg.com/holidayinn/hotels/gb/en/tianjin/tsncr/hoteldetail).

CONTACT: Prof. Jie Liu Hunan University, China IPDO2019@HEBUT.EDU.CN

Submitted by: George S. Dulikravich, Ph.D., FASME, FAAM, FRAeS
Professor, Founder and Director, MAIDROC Laboratory
Founder and Editor-in-Chief, Inverse Problems in Science and Engineering journal
Department of Mechanical and Materials Engineering, Florida International University
10555 West Flagler Street, EC 3462 Miami, Florida 33174 U.S.A.
+1 (305) 348-7016 office phone +1 (305) 348-1932 department FAX
+1 (954) 554-0368 mobile phone dulikrav@fiu.edu
http://maidroc.fiu.edu https://www.tandfonline.com/toc/gipe20/current

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From: "Quinto, Eric Todd" <Todd.Quinto@tufts.edu>
Subject: International Conference on Sensing and Imaging 2018
Date: Sunday, July 8, 2018

International Conference on Sensing and Imaging 2018 (ICSI 2018)

October 15-18, 2018
Guangxi University of Science and Technology, Liuzhou, China
URL: http://www.gxust.edu.cn/ICSI2018

Dear colleagues,

We are happy to inform you about ICSI 2018 at Guangxi University of Science and Technology, Liuzhou, China, on October 15-18, 2018. ICSI 2018 aims to gather together colleagues worldwide in the fields of sensing and imaging. Conference topics include image processing technologies and theory, sensor technologies, and applications include but are not limited to NDE, medical/biological applications including tomography and inverse problems, security, and engineering.

If you would like to speak at ICSI 2018, check out the article submissions page http://www.gxust.edu.cn/ICSI2018/Publication.html . The submission deadline is August 15, 2018 and all articles will be peer reviewed. We will notify you of acceptance by September 15.

Accepted articles will be published in the proceedings of the conference in the book series Lecture Notes in Electrical Engineering (LNEE) by Springer & Nature. LNEE is indexed in ISI Proceedings, EI-Compendex, SCOPUS, MetaPress, and Springerlink. We also plan to edit a special issue entitled "Recent developments in Sensing and Imaging" in the journal Sensing and Imaging from Springer & Nature. The Program Committee will recommend 10 - 20 presented work at ICSI 2018 for possible publication in this special issue.

Please contact lanzengmei@gxust.edu.cn if you have any questions about the conference.

Sincerely,

Todd Quinto
On behalf of the Academic Committee (chairs Nathan Ida and Ming Jiang)

Submitted by: Todd Quinto, Robinson Professor of Mathematics, Tufts University

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From: Michel Cristofol AMU <michel.cristofol@univ-amu.fr>?
Subject: Conference announcement
Date: Wednesday, July 18, 2018

We would like to draw your attention to the following conference

Mathematical and Numerical Approaches for Multi-Wave Inverse Problems

to be held

April 1-5, 2019, in CIRM, Marseille, France.

You can find more details as well as some important dates at

https://conferences.cirm-math.fr/1953.html

The focus of this conference is most specifically set on multiwave/hybrid inverse problems. Within that framework, the scientific program has been constructed in order to address the following topics:
- identification and reconstruction of unknown coefficients

- control of coupled phenomena
- regularization
- practical implementation of algorithms and co-design

One of the main objectives of this conference will be the exchange of ideas and tools between different scientific communities, specially to favour the discussions between researchers more involved in theoretical aspects of inverse problems with the ones more interested in numerical implementation of these problems. We have also tried to gather a number of researchers of international renown strongly involved in these multi-modal applications.

We hope to see you next year in Marseille !

Best wishes,

the organizing committee
(L. Beilina, M. Bergounioux, M. Cristofol, A. da Silva)

Submitted by: Michel Cristofol

From: Johan Suykens <Johan.Suykens@esat.kuleuven.be>
Subject: PhD and Postdoc positions KU Leuven: Optimization frameworks for deep kernel machines
Date: July 18, 2018

PhD and Postdoc positions KU Leuven: Optimization frameworks for deep kernel machines

The research group KU Leuven ESAT-STADIUS is currently offering 2 PhD and 1 Postdoc (1 year, extendable) positions within the framework of the KU Leuven C1 project Optimization frameworks for deep kernel machines (promotors: Prof. Johan Suykens and Prof. Panos Patrinos).

Deep learning and kernel-based learning are among the very powerful methods in machine learning and data-driven modelling. From an optimization and model representation point of view, training of deep feedforward neural networks occurs in a primal form, while kernel-based learning is often characterized by dual representations, in connection to possibly infinite dimensional problems in the primal. In this project we aim at investigating new optimization frameworks for deep kernel machines, with feature maps and kernels taken at multiple levels, and with possibly different objectives for the levels. The research hypothesis is that such an extended framework, including both deep feedforward networks and deep kernel machines, can lead to new important insights and improved results. In order to achieve this, we will study optimization modelling aspects (e.g. variational principles, distributed learning formulations, consensus algorithms), accelerated learning schemes and adversarial learning methods.

The PhD and Postdoc positions in this KU Leuven C1 project (promotors: Prof. Johan Suykens and Prof. Panos Patrinos) relate to the following possible topics:

-1- Optimization modelling for deep kernel machines
-2- Efficient learning schemes for deep kernel machines
-3- Adversarial learning for deep kernel machines

For further information and on-line applying, see

https://urldefense.proofpoint.com/v2/url?u=https-3A__www.kuleuven.be_personeel_jobsite_jobs_54740654&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=JjXaUVFauCZVM_rW-9isRpF3JCXVjWs0ExV5mJSlemY&s=DHACdH0GOFzQytiAfDBHKfL1911kDT6wYFlQUIeL7Kg&e=" (PhD positions) and
https://urldefense.proofpoint.com/v2/url?u=https-3A__www.kuleuven.be_personeel_jobsite_jobs_54740649&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=JjXaUVFauCZVM_rW-9isRpF3JCXVjWs0ExV5mJSlemY&s=U4YzDIPkyimRuH7A1l5PuaNkrcCh5qx5F_HLiYZYHr0&e=" (Postdoc position)
(click EN for English version).

The research group ESAT-STADIUS
https://urldefense.proofpoint.com/v2/url?u=http-3A__www.esat.kuleuven.be_stadius&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=JjXaUVFauCZVM_rW-9isRpF3JCXVjWs0ExV5mJSlemY&s=EOnEZqNjlZ5tnaKTQcZTzxxWUVk8jkwRYEfSgUaxJTE&e= at
the university KU Leuven Belgium provides an excellent research environment being active in the broad area of mathematical engineering, including data-driven modelling, neural networks and machine learning, nonlinear systems and complex networks, optimization, systems and control, signal processing, bioinformatics and biomedicine.

From: Jakob Jorgensen <jakob.jorgensen@manchester.ac.uk>?
Subject: Postdoc in Spectral Tomography Algorithms, University of Manchester, UK
Date: Tuesday, July 24, 2018

Dear all,

We are looking for an enthusiastic postdoc to join our research group in the Henry Moseley X-ray Imaging Facility at the University of Manchester to work on algorithms for image reconstruction in spectral computed tomography, please see details below.

Best wishes,
Jakob Jorgensen

Research Associate: A Reconstruction Toolkit for Multichannel CT

The goal of this EPSRC funded research project is to develop a new Reconstruction Toolkit for Multi-channel Computer Tomography (RT-MCT). The purpose is to provide novel functionality for reconstructing multi-spectral tomographic datasets. A key goal of this programme will be to find iterative solutions and optimisation strategies to improve robustness
of multi-spectral image reconstruction towards low dose imaging, under-sampled projections and various artefacts.

You will be expected to develop mathematical models of data generation in X-ray CT then use these to devise algorithms to recover images in the most efficient and reliable way. You would be expected to implement this and adapt it to the specific computing architectures available. You will also deploy RT-MCT into operation at our collaborating facilities, which will involve adapting it to the individual data requirements and

educating facility and staff and users. Also you will assist with the supervision of research students, produce reports and presentations for project meetings, as well as writing manuscripts for publication.

Further information can be found at
https://www.jobs.manchester.ac.uk/DisplayJob.aspx?JobId=15730

Informal enquires can be made to
Dr Martin Turner, martin.turner@manchester.ac.uk

Closing date:
21 August 2018.

From: "Cuixin.zhou" <newsletter-noreply@aimsciences.org>?
Subject: New IPI vol. 12, no. 4 August 2018 issue is now available online
Date: Tuesday, July 10, 2018

Inverse Problems and Imaging (IPI) August 2018 Volume 12, Number 4

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http://aimsciences.org/journal/1930-8337/2018/12/4

Submitted by: Cuixin Zhou??Publication Editor?
American Institute of Mathematical Sciences?Springfield, MO 65801 USA?

zhoucuixin@163.com

From: "noreply@iopscience.org" <noreply@iopscience.org>?
Subject: Inverse Problems, Volume 34, Number 9, September 2018
Date: Thursday, July 26, 2018 at 6:21 AM?

Inverse Problems September 2018 Volume 34, Number 9

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On the local and global minimizers of \ell_0 gradient regularized model with box constraints for image restoration ?
Xue Feng, Chunlin Wu, and Chao Zeng

Reconstruction of thin electromagnetic inhomogeneity without diagonal elements of a multi-static response matrix ?
Won-Kwang Park

Goal-oriented optimal design of experiments for large-scale Bayesian linear inverse problems ?
Ahmed Attia, Alen Alexanderian, and Arvind K Saibaba

Comment

Comment on ‘An explicit reconstruction method for magnetic resonance electrical property tomography based on the generalized Cauchy formula’ ?
V Palamodov

Reply

Reply to comment on ‘An explicit reconstruction method for magnetic resonance electrical property tomography based on the generalized Cauchy formula’ ?
T Nara

http://iopscience.iop.org/issue/0266-5611/34/9

From: "noreply@degruyter.com" <noreply@degruyter.com>?
Subject: Contents, 'Journal of Inverse and Ill-posed Problems'
Date: Friday, July 27, 2018

Journal of Inverse and Ill-posed Problems August 2018 Volume 26, Issue 4

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Teacher, mentor, and friend. In honor of the 80th birthday of Professor Anatoly Borisovich Bakushinsky?
Vasin, Vladimir V. / Kabanikhin, Sergey I. / Kokurin, Mikhail Y. / Leonov, Aleksander S. / Smirnova, Alexandra B.

Source conditions and accuracy estimates in Tikhonov’s scheme of solving ill-posed nonconvex optimization problems?
Kokurin, Mikhail Y.

Fast numerical method of solving 3D coefficient inverse problem for wave equation with integral data?
Bakushinsky, Anatoly B. / Leonov, Alexander S.?

Solution of the inverse elastography problem for parametric classes of inclusions with a posteriori error estimate?
Leonov, Alexander S. / Sharov, Alexander N. / Yagola, Anatoly G.

Imaging of buried objects from multi-frequency experimental data using a globally convergent inversion method?
Nguyen, Dinh-Liem / Klibanov, Michael V. / Nguyen, Loc H. / Fiddy, Michael A.

Inverse source problem for parabolic equation with the condition of integral observation in time?
Prilepko, Aleksey I. / Kamynin, Vitaly L. / Kostin, Andrew B.?

A comparison of error estimates at a point and on a set when solving ill-posed problems?
Tanana, V.?P.

On TSVD regularization for a Broyden-type algorithm?
Smirnova, Alexandra

https://www.degruyter.com/view/j/jiip.2018.26.issue-4/issue-files/jiip.2018.26.issue-4.xml
------ end -------

IPNet Digest Volume 25, Number 08 September 30, 2018

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

Today's Topics:
Postdocs: Inverse Problems, Signal and Image Processing/Analysis in Shenzhen
Professorship: Inverse Problems at University of Würzburg
Computational Scientist: Algorithms for Tomographic Imaging at UK STFC
Special Issue: Variational Methods, Algorithms for Imaging & Vision in Inverse Problems
Table of Contents: Inverse Problems and Imaging
Table of Contents: Inverse Problems
Table of Contents: Journal of Inverse and Ill-posed Problems
Table of Contents: Nonlinear Analysis: Modelling and Control

Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu

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

From: ?? <jianlu@szu.edu.cn>?
Subject: Postdoc Positions in Shenzhen University: Machine Learning, Image Analysis, Computational Harmonic Analysis, Inverse Problems
Date: Friday, August 24, 2018

Postdoc Positions in Shenzhen University, China?Location: Shenzhen, China?Job Type: Full-Time?Duration: 2 years?Number of Position: 2~3 Positions?Closing Date: Open Until Filled

Description:?We are looking for Postdoctoral Researchers in Applied and Computational Mathematics, Computer Science and related discipline with extensive experience in the following field(s):?
-1- Machine Learning (deep learning)?
-2- Signal and Image Processing/Analysis?
-3- Computer vision?
-4- Approximation Methods?
-5- Computational Harmonic Analysis?
-6- Inverse Problems, etc.

Promotors: ?Prof. Jian Lu (Shenzhen Key Laboratory of Advanced Machine Learning and Applications, College of Mathematics and Statistics)

Prof. Charles K. Chui (Editor-in-Chief, Applied and Computational Harmonic Analysis (ACHA), Elsevier.)

The salary is about 270,000 CNY (40,000 US dollars) per year, of which 120,000 RMB per year comes from a local government source as a tax-free postdoc subsidy. Those who are interested please send their C.V. to Prof. Dr. Jian Lu, whose contact information is as follows: Prof. Jian Lu, College of Mathematics and Statistics, Shenzhen University, Shenzhen 518060, China; e-mail: jianlu@szu.edu.cn; jianlu1979@163.com

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From: Petra Markert-Autsch <petra.markert-autsch@mathematik.uni-wuerzburg.de>?

Subject: Job Vacancy: Professorship (W2) for Inverse Problems (Uni Würzburg)
Date: Tuesday, September 25, 2018

The Institute of Mathematics at the University of Würzburg welcomes applications for a? ?

Professorship (W2) for Inverse Problems ??

to be filled by October 31st, 2018.??

Potential Candidates are expected to be internationally recognized experts in the field of inverse problems.??

Duties will include the representation of Inverse Problems in research, participation in the bachelor's, master's, PhD's, and teacher training courses as well as in the various service courses at the Institute for Mathematics; active participation in the university's graduate programs is also desired. In addition, participation in the academic self-administration is expected.

For further information please visit?http://www.mathematik.uni-wuerzburg.de/bewerbungen/W2Math09-2018 ??

Best regards,?Alfio Borzì

Submitted by: Petra Markert-Autsch,
Sekretariat Lehrstuhl für Mathematik IX (Wissenschaftliches Rechnen),
Universität Würzburg

From: Jakob Jorgensen <jakob.jorgensen@manchester.ac.uk>?
Subject: UK job vacancy - computational scientist for tomographic imaging
Date: Thursday, September 27, 2018

Dear all,

We are looking for a computational scientist in the area of algorithms for tomographic imaging. Please see details below.

Best wishes,
Jakob Jorgensen

The Scientific Computing Department of the Science and Technology Facilities Council (STFC) provides computational support to UK scientific communities through the Computational Science Centre for Research Communities (CoSeC), and support to the large facilities via the Ada Lovelace Centre.

We have a vacancy for a computational scientist in imaging, to contribute to CoSeC support for Collaborative Computational Project in tomographic imaging (CCPi).
This post represents a great opportunity for a suitable candidate with good analytical background in physics, mathematics or computer science, and strong software development capabilities to adapt and expand their expertise in the exciting field of tomographic imaging. We are keen to support the right candidate to advance his/her academic track record in relevant areas.

In terms of software, this is a ‘full-stack’ role involving software design, development, testing, as well as support.

Full information and how to apply at the following link http://www.topcareer.jobs/Vacancy/irc246732_8715.aspx

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From: David Boyt <david.boyt@iop.org>?
Subject: Inverse Problems - Special Issue on Variational Methods and Effective Algorithms for Imaging and Vision
Date: Wednesday, September 26, 2018

Dear all,

A reminder of the invitation to submit work for a Special Issue on Variational Methods and Effective Algorithms for Imaging and Vision to be published in Inverse Problems [see below].
The deadline for submission has now been extended to 30 November 2018.

Should you have any queries, please feel free to approach either myself or one the issue’s Guest Editors: Carola-Bibiane Schönlieb (copied here), Michael Hintermüller, and Simon Arridge.

Warm regards,
David

****

From: David Boyt ?
Subject: Inverse Problems - Special Issue on Variational Methods and Effective Algorithms for Imaging and Vision
Sent: 10 May 2018 16:28

Dear all,

On behalf of the journal, Inverse Problems, and the Guest Editors, Carola-Bibiane Schönlieb (copied here), Michael Hintermüller, and Simon Arridge, I’m writing to inform you of a new Special Issue on Variational Methods and Effective Algorithms for Imaging and Vision, which is now welcoming submissions.

This special issue aims to collect some of the most recent and most promising mathematical approaches in imaging and computer vision, capturing its theory, numerical methods and applications. The issue is motivated by the recent Isaac Newton Institute programme with the same title but is not limited to contributions from participants. Further information on the Special Issue can be found via the journal’s website here.

Should you have any queries, please feel free to approach either myself or the Guest Editors.

Warm regards,
David

Submitted by: David Boyt?Publisher??
IOP Publishing?
Temple Circus, Temple Way, ?Bristol?BS1 6HG?UK??
Direct line +44 (0)117 930 1062?
Email: david.boyt@iop.org?
LinkedIn: www.linkedin.com/in/david-boyt-01a1434b/

From: "Cuixin.zhou" <newsletter-noreply@aimsciences.org>?
Subject: New IPI vol. 12, no. 5 October 2018 issue is now available online
Date: Sunday, August 12, 2018

Inverse Problems and Imaging ?October 2018 Volume 12, Number 5
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http://aimsciences.org/journal/1930-8337/2018/12/5

From: "noreply@iopscience.org" <noreply@iopscience.org>?
Subject: Inverse Problems, Volume 34, Numbers 10-11, October-November 2018
Date: Tuesday, August 28, 2018

Inverse Problems October 2018 Volume 34, Number 10
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http://iopscience.iop.org/issue/0266-5611/34/10

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Christine Grathwohl, Peer Kunstmann, Eric Todd Quinto, and Andreas Rieder

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Heuristic rule for non-stationary iterated Tikhonov regularization in Banach spaces ?
Zhengqiang Zhang, and Qinian Jin

A modified transmission eigenvalue problem for scattering by a partially coated crack ?
Samuel Cogar

Inverse scattering problems on a noncompact star graph ?
Xiao-Chuan Xu, and Chuan-Fu Yang

Estimation of the Robin coefficient field in a Poisson problem with uncertain conductivity field
Ruanui Nicholson, Noémi Petra, and Jari P Kaipio

Acoustic interface contrast imaging ?
Joost van der Neut, Peter M van den Berg, Jacob T Fokkema, and Koen W A van Dongen

Reconstruction of a compactly supported sound profile in the presence of a random background medium
Carlos Borges, and George Biros

The inverse problem of magnetorelaxometry imaging ?
Janic Föcke, Daniel Baumgarten, and Martin Burger

Edge-guided TV p regularization for diffuse optical tomography based on radiative transport equation Shanshan Tong, Bo Han, and Jinping Tang

Application of microlocal analysis to an inverse problem arising from financial markets ?
Shin-ichi Doi, and Yasushi Ota

Semi-global inversion of v_p to v_s ratio for elastic wavefield inversion ?
Nuno V da Silva, Gang Yao, and Michael Warner

A bilevel approach for parameter learning in inverse problems ?
Gernot Holler, Karl Kunisch, and Richard C Barnard

Equivalence of weak and strong modes of measures on topological vector spaces ?
Han Cheng Lie, and T J Sullivan

A new version of the convexification method for a 1D coefficient inverse problem with experimental data ?
Michael V Klibanov, Aleksandr E Kolesov, Anders Sullivan, and Lam Nguyen

Tikhonov regularization in Hilbert scales under conditional stability assumptions ?

H Egger, and B Hofmann

http://iopscience.iop.org/issue/0266-5611/34/11

From: "noreply@degruyter.com" <noreply@degruyter.com>?
Subject: Contents, 'Journal of Inverse and Ill-posed Problems'
Date: Friday, September 28, 2018

Journal of Inverse and Ill-posed Problems October 2018 Volume 26, Issue 5

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Identification of mathematical model of bacteria population under the antibiotic influence?
Serovajsky, Simon / Nurseitov, Daniyar / Kabanikhin, Sergey / Azimov, Anvar / Ilin, Alexandr / Islamov, Rinat

On the determination of differential pencils with nonlocal conditions?
Yang, Chuan-Fu / Yurko, Vjacheslav

An inverse problem in elastography involving Lamé systems?
Fernández-Cara, Enrique / Maestre, Faustino

Solution of the inverse seismic problem in a layered elastic medium by means of the ?-p Radon transform?
Baev, Andrey V.

An adaptive multigrid conjugate gradient method for the inversion of a nonlinear convection-diffusion equation
Liu, Tao

Ambarzumyan-type theorems on a time scale?
Ozkan, Ahmet Sinan

A converse result for Banach space convergence rates in Tikhonov-type convex regularization of ill-posed linear equations?
Flemming, Jens

Lipschitz stability estimates in inverse source problems for a fractional diffusion equation of half order in time by Carleman estimates?
Kawamoto, Atsushi

Inverse dynamic and spectral problems for the one-dimensional Dirac system on a finite tree?
Mikhaylov, Alexander / Mikhaylov, Victor S. / Murzabekova, Gulden

Phaseless inverse problems with interference waves?
Romanov, Vladimir G. / Yamamoto, Masahiro

Quasi-solution of linear inverse problems in non-reflexive Banach spaces?
Clason, Christian / Klassen, Andrej

https://www.degruyter.com/view/j/jiip.2018.26.issue-5/issue-files/jiip.2018.26.issue-5.xml

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From: Romas Baronas <romas.baronas@mif.vu.lt>
Subject: Table of Contents, Nonlinear Analysis: Modelling and Control 23:5

Date: September 3, 2018

Nonlinear Analysis: Modelling and Control 2018 Volume 23, Number 5
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https://www.mii.lt/NA/
------ end -------

IPNet Digest Volume 25, Number 09 November 29, 2018

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

Today's Topics:

Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu

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

From: Haroldo <haroldo.camposvelho@inpe.br>
Subject: CCIS 2019: School of Physics - GeorgiaTech (Atlanta, USA)
Date: Sunday, October 14, 2018

2019, 19th to 22th March - CCIS 2019

****
Conference of Computational Interdisciplinary Science (CCIS 2019)
Georgia Tech - School of Physics, March 19th - 22th, 2019
****

http://www.inpe.br/ccis2019/

Dear Colleague,

We are happy to inform you that registration for CCIS 2019 is now open. In order
to submit your contribution and to start your registration, log in conference links:

http://www.inpe.br/ccis2019/submission.php
http://www.inpe.br/ccis2019/registration_fees.php

There will be a special technical session on
"Inverse Problems, Data Assimilation, and Uncertainty Quantification".

See you in Atlanta (USA).

Yours Sincerely,
Haroldo F. de Campos Velho (INPE) and Flavio Fenton (GeogiaTech)
From the CCIS-2019 Organizing Committee

From: Michel Cristofol AMU <michel.cristofol@univ-amu.fr>
Subject: Conference announcement
Date: Tuesday, November 20, 2018

We would like to draw your attention to the following conference

Mathematical and Numerical Approaches for Multi-Wave Inverse Problems

to be held

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- identification and reconstruction of unknown coefficients
- control of coupled phenomena
- regularization
- practical implementation of algorithms and co-design

One of the main objectives of this conference will be the exchange of ideas and tools between different scientific communities, specially to favour the discussions between researchers more involved in theoretical aspects of inverse problems with the ones more interested in numerical implementation of these problems. We have also tried to gather a number of researchers of international renown strongly involved in these multi-modal applications.

There are no fees, and grants are available for young researchers.

We hope to see you next year in Marseille !

Best wishes,
the organizing committee
(L. Beilina, M. Bergounioux, M. Cristofol, A. da Silva, A. Litman)

From: "Chen, Ke" <K.Chen@liverpool.ac.uk>
Subject: Lectureship post in Applied and Computational Maths
Date: Thursday, November 22, 2018

The Department of Mathematical Sciences at the University of Liverpool invites applications for a lectureship position in the area of Applied and
Computational Mathematics, affiliated with the Engineering and Physical Sciences Research Council funded Liverpool Centre for Mathematics in Healthcare.

We are particularly interested in individuals from areas like data, imaging, learning and computational sciences who are also keen on developing novel mathematics for industrial or clinical applications. The University is committed to diversity and equality of opportunity.

See https://tinyurl.com/Liverpool-Post-Mar2019 for full details.

Application deadline: 1 March 2019.

From: Roland Herzog <roland.herzog@mathematik.tu-chemnitz.de>
Subject: Three openings in Optimization on Manifolds (2 postdocs, 1 Ph.D.)

Date: Friday, November 23, 2018

Dear colleagues,

we have openings for two postdoc positions

(https://urldefense.proofpoint.com/v2/url?u=https-3A__mytuc.org_drmf&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=SwLw84NO6dJkCWgyVtajZOSmF0Msr2Rg0ufhd1ZDyqU&s=ToSzPUkiKEXS7d-SzCxJDhMUMVd4EERGhkjavQzEekA&e=)

in the area of Optimization on Manifolds and for one Ph.D. position

(https://urldefense.proofpoint.com/v2/url?u=https-3A__mytuc.org_dnjg&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=SwLw84NO6dJkCWgyVtajZOSmF0Msr2Rg0ufhd1ZDyqU&s=TiKC1YXgLR5JKCJ3Wz_Sj4GkzCvNWUnDIHMg4T1aWek&e=)

in Differential Geometry and Optimization.

Interested candidates should apply by December 19, 2018.

Kind regards,
Roland Herzog and Ronny Bergmann

https://urldefense.proofpoint.com/v2/url?u=https-3A__www.tu-2Dchemnitz.de_mathematik_part-5Fdgl&d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=SwLw84NO6dJkCWgyVtajZOSmF0Msr2Rg0ufhd1ZDyqU&s=dwe3vbeZDCTRzQfpFEL71GPIJLcs7r87gDebTf8OaUI&e=

From: "Cuixin.zhou" <newsletter-noreply@aimsciences.org>
Subject: New IPI vol. 12, no. 6 December 2018 issue is now available online
Date: Tuesday, October 23, 2018

Inverse Problems and Imaging December 2018 Volume 12, Issue 6

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Hanming Zhou

Local block operators and TV regularization based image inpainting
Wei Wan, Haiyang Huang and Jun Liu

Inverse source problems in electrodynamics
Guanghui Hu, Peijun Li, Xiaodong Liu and Yue Zhao

Tomographic reconstruction methods for decomposing directional components
Rasmus Dalgas Kongskov and Yiqiu Dong

http://aimsciences.org/journal/1930-8337/2018/12/6

From: "noreply@iopscience.org" <noreply@iopscience.org>
Subject: Inverse Problems, Volume 34, Number 12, December 2018
Date: Monday, November 12, 2018

Inverse Problems December 2018 Volume 34, Number 12

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Special Issue Papers:

Papers:

Sombuddha Bhattacharyya

Bayesian approach to a nonlinear inverse problem for a time-space fractional diffusion equation
Yuan-Xiang Zhang, Junxiong Jia, and Liang Yan

A regularization method based on level sets and augmented Lagrangian for parameter identification problems with piecewise constant solutions
J P Agnelli, A De Cezaro, and A Leitão

Two direct factorization methods for inverse scattering problems
Koung Hee Leem, Jun Liu, and George Pelekanos

Optimal design of experiments for estimating the time of death in forensic medicine
Martin Weiser, Yvonne Freytag, Bodo Erdmann, Michael Hubig, and Gita Mall

Deconvolving the input to random abstract parabolic systems: a population model-based approach to estimating blood/breath alcohol concentration from transdermal alcohol biosensor data
Melike Sirlanci, I G Rosen, Susan E Luczak, Catharine E Fairbairn, Konrad Bresin, and Dahyeon Kang

Erratum

Erratum: Equivalence of weak and strong modes of measures on topological vector spaces (2018 Inverse Problems 34 115013)
Han Cheng Lie, and T J Sullivan

http://iopscience.iop.org/issue/0266-5611/34/12

From: "Robinson, Justin" <Justin.Robinson@tandf.co.uk>
Subject: Inverse Problems in Science and Engineering, Volume 27, Issue 1, January 2019 is now available online on Taylor & Francis Online
Date: Tuesday, November 20, 2018

Inverse Problems in Science and Engineering January 2019 Volume 27, Issue 1

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Detection of spatially sparse damage using impulse response sensitivity and LASSO regularization
Chandler B. Smith & Eric M. Hernandez

Simultaneous recovery of an infinite rough surface and the impedance from near-field data
Jianliang Li

On the reconstruction of inducing dipole directions and susceptibilities from knowledge of the magnetic field on a sphere
Christian Gerhards

Application of weighted homotopy analysis method to solve an inverse source problem for wave equation
P. Sattari Shajari & A. Shidfar

Damage detection in beam through change in measured frequency and undamaged curvature mode shape
Mustapha Dahak, Noureddine Touat & Mounir Kharoubi

An efficient Peaceman–Rachford splitting method for constrained TGV-shearlet-based MRI reconstruction
Tingting Wu, Wenxing Zhang, David Z. W. Wang & Yuehong Sun

https://www.tandfonline.com/toc/gipe20/27/1

Submitted by:
Justin Robinson
Managing Editor | Taylor & Francis | Routledge Journals
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IPNet Digest Volume 25, Number 10 December 29, 2018

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

Today's Topics:

Submissions for IPNet Digest:
Mail to ipnet-digest@math.msu.edu

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

From: Denis Maillet <Denis.Maillet@univ-lorraine.fr>
Subject: Advanced school: Thermal Measurements and Inverse Techniques
Date: Sunday, December 9, 2018

Advanced school: Thermal Measurements and Inverse Techniques
METTI 7
Sep.18-Oct.4, 2019, Porquerolles island, France

This 7th advanced METTI school http://iusti.cnrs.fr/metti7 is aimed at theoretical and practical ways of tackling several important questions that are met in inverse problems in heat transfer such as:

-- A heat source exists at a location inaccessible to measurement: what can be learnt about it from distant measurements?
-- Can a single experiment allows the estimation of all the parameters of a thermal model?
-- How to design the ideal experiment to estimate the thermophysical properties of a material or of a physical system?
-- The thermal model used in an experiment is too time and memory consuming, how can it be reduced?

All these questions are related to inversion of thermal measurements: looking either for the causes responsible for observable consequences measured by a thermal signal or for the corresponding influencing parameters. Since a direct model links causes and consequences, the complete inverse approach requires to consider the triptych Measurements / Model / Inversion with equal effort for each of its parts.

These points will be discussed in the courses and tutorials sessions in the pleasant venue of Porquerolles island, Hyeres (Var) in the south of France. ?Preregistration is now open on the above website.

Denis Maillet

From: Lothar Reichel <reichel@math.kent.edu>
Subject: ETNA 25 Conference on Sardinia, Italy, May 27-29
Date: December 22, 2018

We cordially invite you to attend the conference "Recent Advances in Scientific
Computation", which is planned on the occasion of the 25th anniversary of the
Electronic Transactions on Numerical Analysis (ETNA). The conference will take
place on May 27-29, 2019, at Santa Margherita di Pula outside Cagliari, Sardinia,
Italy. A focus of the conference will be new developments in large-scale
computation. Many areas will be covered, including image restoration, Krylov
subspace iterative methods, preconditioning, matrix functions, the solution of
partial differential equations, network analysis, and the solution of
ill-posed problems. The conference also will celebrate Fiorella Sgallari's 65th
birthday. Further information about the conference, including plenary speakers,
special sessions, and how to register, can be found at the web site
https://urldefense.proofpoint.com/v2/url?u=http-3A__bugs.unica.it_ETNA25&d=DwIBAg&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=foHAsdOAe-SBqEh3B9jOCVTaWDxfM06KrTqRhTU_ppk&s=8FTtZFSoVcS8-UMNygQ1MsCbkM3aePdBySTnwd9T4b0&e=

On behalf of the organizing committee

Ronny Ramlau, Lothar Reichel, and Giuseppe Rodriguez

From: Haroldo <haroldo.camposvelho@inpe.br>
Subject: CCIS 2019: School of Physics - GeorgiaTech (Atlanta, USA) - New Deadlines
Date: December 18, 2018

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Conference of Computational Interdisciplinary Science (CCIS 2019)

Georgia Tech - School of Physics, March 19th - 22th, 2019
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** Important Dates **

January 15th, 2019: Deadline for abstracts submission
January 25th, 2019: Abstracts acceptance
February 05th, 2019: Deadline for full paper submission
February 15th, 2019: Paper acceptance
March 19th, 2019: End of Registration
March 19th - 22th: CCIS 2019

* Conference web-page and Conference information *

- CCIS 2019 web-page:http://www.inpe.br/ccis2019/
- Venue for CCIS 2019: School of Physics of the Georgia Institute of Technology (Atlanta, GA, USA).
- Period: 19-22/March/2019

* Overview *

The Conference of Computational Interdisciplinary Science (CCIS 2019) aims to be a meeting for researchers and students working in areas of science using scientific computing. It is an initiative of the Pan-American Association on Computational Interdisciplinary Sciences (PACIS). Although there are other forums that discuss related topics, such as Applied Mathematics, Bioinformatics, and Computational Physics, the CCIS 2019 seeks, in an innovative way, a broader dialog, which is inherently inter- and multidisciplinary, where researchers from different fields can share their experiences and find solutions to their computational problems.

The conference program consists of keynote lectures, contributed sessions and tutorials on Computational Mathematics, Computational Physics and Astronomy, Computational Chemistry, Computational Biology, and computacional issues in geosciences. Topics like computational methods applied in Space and Environmental Sciences, Technology, Innovation and Economy are also in the conference scope.

Contributions can be oriented toward applications of computational methods, algorithms, numerical simulations and high-performance computing (HPC) in Science and Technology. The official language for the conference, including presentations and submissions, is English.

CCIS 2019 will focus on the following topics:
- Hybrid computing
- GPU/GPGPU scientific computing
- Computational Grid Applications
- Cloud Computing and e-Science
- Quantum Computing
- Frontiers of Computational Physics and Fluid Dynamics
- Frontiers of Computational Chemistry & Biology
- Computational Data Analysis, Simulation and Modeling
- Validation in Astrophysics and Cosmology
- Scientific Computing in Science and Engineering
- Environmental Sciences and Geography Modeling
- Image processing
- Big Data, Data Science, and Data Mining
- Parallel Numerical Algorithms
- Libraries for Numerical Computations
- Languages, Tools and Environments for Programming Numerical Algorithms
- Applications of Numerical Algorithms in Science and Technology
- Scientific Computing in Science and Engineering
- Software Engineering for Scientific Applications
- Soft-computing for Scientific Applications
- Applications of Computer Science
- Optimization and inverse problems
- Uncertainty quantification and data assimilation

We are waiting for you in Atlanta!

Flavio Fenton (GeogiaTech) and Haroldo F. de Campos Velho (INPE)
From the CCIS-2019 Organizing Committee

From: Lothar Reichel <reichel@math.kent.edu>
Subject: Faculty Position, Applied Statistics, Kent State University
Date: December 21, 2018

Kent State University's Department of Mathematical Sciences invites applications for a full-time, tenure-track, open rank position in Applied Statistics. The appointment is to begin August 21, 2019. The salary and other conditions of employment are competitive.

Qualifications include a Ph.D. in Statistics, or a closely related degree program. Preference will be given to candidates with expertise in Applied Statistics, including Data Science, Large-Scale Data Analysis, Computational Statistics, Actuarial Science, and related areas. Candidates are expected to support the established research strengths of the department as well as to contribute to the interdisciplinary outreach of the department through active collaborations with other disciplines to develop new undergraduate and graduate programs in Statistics. Further details of the position can be found at https://urldefense.proofpoint.com/v2/url?u=http-3A__jobslist.kent.edu_cw_en-2Dus_job_496162_faculty-2Dtenure-2Dtrack9-2Dmo&d=DwIDaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=XqQpsRfISL53GKFyGk8R4Jj09SJWk9Umm4LGjRt8ifg&s=7pQx-1FvHKOOgKcay9QUUb5RV2EHkUj1jnorJWI-_pA&e=

The individual hired for this position will be expected to establish an extramurally funded research program, engage in collaborative research and direct theses and dissertations, and exhibit a commitment to excellence in undergraduate and graduate education.
funded research program. For further information about the department, please visit the web
site https://urldefense.proofpoint.com/v2/url?u=http-3A__www.kent.edu_math&d=DwIDaQ&c=nE__W8dFE-shTxStwXtp0A&r=d_ce0_mh_PXvtyDkkix951B_s_t7QYc8Dtq82B52K8I&m=XqQpsRfISL53GKFyGk8R4Jj09SJWk9Umm4LGjRt8ifg&s=tyIo5pltDR9-Ub13KKZz62ZzN942ZTYNRYjK3CmyAS0&e=.

To apply for this position, fill in an application at jobs.kent.edu, and attach a cover letter, a curriculum vitae, a publication list, a research statement, and a teaching statement. In addition, please send at least three (3) letters of reference to: stat-search@math.kent.edu.

Questions regarding this position may be also be sent to stat-search@math.kent.edu. Screening of applicants will begin immediately and will continue until the position is filled.

Kent State University is an Equal Opportunity/Affirmative Action Employer with a strong commitment to the achievement of excellence and diversity among its faculty, staff, and students.

From: CMI Admin <cmi@maths.cam.ac.uk>
Subject: CMI studentships
Date: December 17, 2018

The CMI (Cambridge Mathematics of Information), based at the Faculty of Mathematics of the University of Cambridge, invites applications to the course which includes fully funded studentships.??

This cutting-edge training centre in the Mathematics of Information will produce a new generation of leaders in the theory and practice of modern data science, with an emphasis on the mathematical underpinnings of this new scientific field. The programme will continue activities of CCIMI as well as those of CCA, with significant new components.??

We welcome applications from students interested in subject areas covering all aspects of the broad field of mathematics of information. Potential supervisors are listed on the website. Prospective students are encouraged to discuss areas of interest relating to the course with potential supervisors. Current projects (via CCIMI) can be viewed on the website.??

PhD Studentships are fully funded to include University Composition Fees and maintenance for the duration of the course to match the UKRI (previously RCUK) minimum level, and the scheme is open to nationals from all countries. ??

To find out more: www.maths.cam.ac.uk/cmi or email cmi@maths.cam.ac.uk.

Submitted by: Tessa Blackman?Faculty of Mathematics Graduate Office? Centre for Mathematical Sciences, University of Cambridge?Tel: 01223 337921
www.maths.cam.ac.uk/cmi

From: "noreply@degruyter.com" <noreply@degruyter.com>
Subject: Contents, 'Journal of Inverse and Ill-posed Problems'
Date: Thursday, November 29, 2018

Journal of Inverse and Ill-posed Problems December 2018 Volume 26, Issue 6

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https://www.degruyter.com/view/j/jiip.2018.26.issue-6/issue-files/jiip.2018.26.issue-6.xml

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From: "Robinson, Justin" <Justin.Robinson@tandf.co.uk>
Subject: IPSE Volume 27, Issue 2, February 2019
Date: Thursday, December 6, 2018

Inverse Problems in Science and Engineering February 2019 Volume 27, Issue 2

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Nonlinear Tikhonov regularization in Hilbert scales with balancing principle tuning parameter in statistical inverse problems
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The integrated acceleration of the Chambolle-Pock algorithm applied to constrained TV minimization in CT image reconstruction
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Reliability enhancement of mixed-domain seismic inversion with bounding constraints
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https://www.tandfonline.com/toc/gipe20/27/2

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