IPNet Digest Volume 24, Number 08 August 01, 2017 Today's Editor: Patricia (Patti) K. Lamm, Michigan State University Today's Topics: Conference: 28th IFIP on System Modeling and Optimization, Inverse Problems Research Associate/Senior Research Associate: Mathematics of Measurement Table of Contents: Journal of Inverse and Ill-posed Problems Table of Contents: Inverse Problems Table of Contents: Inverse Problems and Imaging Submissions for IPNet Digest: Mail to ipnet-digest@math.msu.edu Information about IPNet: http://ipnet.math.msu.edu From: Christian Clason <christian.clason@uni-due.de> Subject: First announcement: IFIP TC 7 Conference 2018 in Essen Date: July 17, 2017 Dear colleagues, We would like to draw your attention to the 28th IFIP TC7 Conference on System Modeling and Optimization, to be held July 23-27, 2018, in Essen, Germany. You can find a preliminary web page with some important dates at https://udue.de/ifip2018 The IFIP TC7 conference series addresses a broad range of topics of applied optimization such as optimal control of ordinary and partial differential equations, modeling and simulation, inverse problems, nonlinear, discrete, and stochastic optimization, and industrial applications. In particular, submission of minisymposium proposals on one of these or related topics are welcome (deadline is November 2017).

We hope to see you next year in Essen!

Best wishes,

the organizing committee (Christian Clason, Christian Meyer, Arnd Rösch, Gerhard Starke, Irwin Yousept) Submitted by: Prof. Dr. Christian Clason AG Inverse Probleme, Fakultät für Mathematik Universität Duisburg-Essen tel: +49 201 183 6382 www: http://www.udue.de/clason

From: Carola-Bibiane Schönlieb <cbs31@cam.ac.uk> Subject: Research Associate/Senior Research Associate in the Mathematics of Measurement, Cambridge, UK Date: July 10, 2017

Research Associate/Senior Research Associate in the Mathematics of Measurement (Fixed Term)

The Cantab Capital Institute for the Mathematics of Information (CCIMI) in collaboration with the National Physical Laboratory (NPL) are seeking strong candidates for a Research Associate / Senior Research Associate position to work on a collaborative project in the. Mathematics of Measurement. The postholder will be employed by the University of Cambridge and affiliated with both CCIMI and NPL, with part of their time spent in the CCIMI based in the Centre for Mathematical Sciences in Cambridge and the other part in the NPL offices based in the Maxwell Centre in Cambridge or at the NPL main site in Teddington, Southwest London. The exact percentage of time spent at each institution will vary as appropriate over the course of the project, with the expectation of a minimum of 20% of time spent at NPL (either at the Maxwell Centre in Cambridge or the main site in Teddington) and the University of Cambridge throughout.

Appointment will be made either at Research Associate level (£30,175-£38,183 per annum) or at Senior Research Associate level (£39,324-£49,772 per annum) for an exceptionally well qualified candidate.

Applicants must have a PhD degree in mathematics or statistics (or closely related discipline), and have a demonstrably excellent research record and future research potential.

Duties include developing and conducting individual and collaborative research objectives, proposals and projects. The role holder will be expected to plan and manage their own research and administration, with guidance if required, and to assist in the preparation of proposals and applications to external bodies. He or she must be able to communicate material of a technical nature and be able to build internal and external contacts. He or she may be asked to assist in the supervision of student projects, the development of student research skills, provide instruction or plan/deliver seminars relating to the research area. An allowance for research expenses is included in this position. In the case of an appointment being made at Senior Research Associate level, additional duties would include managing research budgets and programmes, identifying sources of funding, contributing to teaching and supervising/mentoring research students and colleagues. Fixed-term: The funds for this post are available for up to 3 years in the first instance.

To apply online for this vacancy, please click on the 'Apply' button below. This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) and log in before completing the online application form.

You will need to upload a full curriculum vitae, research statement, list of publications and the contact details of two academic referees. Please ensure that your referees are aware that they will be contacted by the HR Office Administrator to request that they upload a reference for you to our Web Recruitment System, and please encourage them to respond promptly.

Interviews are expected to be held in the week beginning 18 September.

Informal enquiries about the position may be made to the coordinator for this recruitment at: LE12567@maths.cam.ac.uk.

Please quote reference LE12567 on your application and in any correspondence about this vacancy.

The University of Cambridge and NPL value diversity and are committed to equality of opportunity. We particularly welcome applications from women, since women are, and historically have been, under-represented on the University of Cambridge Mathematics Departments' research staff.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.

Further information can be found here: http://www.jobs.cam.ac.uk/job/14148/

CLOSING DATE: 15 August 2017

From: <noreply@degruyter.com>
Subject: TOC for 'Journal of Inverse and Ill-posed Problems'
Date: July 25, 2017

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Stability result for two coefficients in a coupled hyperbolic-parabolic system Gaitan, Patricia / Ouzzane, Hadjer

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A proximal iteratively regularized Gauss-Newton method for nonlinear inverse problems Fu, Hongsun / Liu, Hongbo / Han, Bo / Yang, Yu / Hu, Yi

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Synchrotron radiation-based l 1-norm regularization on micro-CT imaging in shale structure analysis Wang, Yanfei / Luo, Shousheng / Wang, Lihua / Wang, Jianqiang / Jin, Chan Generalized sensitivity functions for multiple output systems Kappel, Franz / Munir, Mohammad A Mumford-Shah-type approach to simultaneous reconstruction and segmentation for emission tomography problems with Poisson statistics Klann, Esther / Ramlau, Ronny / Sun, Peng https://www.degruyter.com/view/j/jiip.2017.25.issue-4/issue-files/jiip.2017.25.issue-4 .xml From: <noreply@iopscience.org> Subject: Inverse Problems, Volume 33, Number 8, August 2017 Date: July 28, 2017 August 2017 Volume 33, No. 8 Inverse Problems Table of Contents The Calderón problem with corrupted data Pedro Caro, and Andoni Garcia Local regularization of linear inverse problems via variational filtering Patricia K Lamm Solving an inverse eigenvalue problem with triple constraints on eigenvalues, singular values, and diagonal elements Sheng-Jhih Wu, and Moody T Chu Inverse electromagnetic diffraction by biperiodic dielectric gratings Xue Jiang, and Peijun Li A new approach for extracting the amplitude spectrum of the seismic wavelet from the seismic traces Jinghuai Gao, Bing Zhang, Weimin Han, Jigen Peng, and Zongben Xu Criteria for guaranteed breakdown in two-phase inhomogeneous bodies Patrick Bardsley, Michael S Primrose, Michael Zhao, Jonathan Boyle, Nathan Briggs, Zoe Koch, and Graeme W Milton Wideband passive source localization Margaret Cheney, and James A Given Convergence rates for regularization functionals with polyconvex integrands Clemens Kirisits, and Otmar Scherzer A comparison of edge-preserving approaches for differential interference contrast microscopy S Rebegoldi, L Bautista, L Blanc-Féraud, M Prato, L Zanni, and A Plata

Iterative algorithms for a non-linear inverse problem in atmospheric lidar Giulia Denevi, Sara Garbarino, and Alberto Sorrentino A novel sampling method for multiple multiscale targets from scattering amplitudes at a fixed frequency Xiaodong Liu http://iopscience.iop.org/issue/0266-5611/33/8 From: Susan Cummins <journal@aimsciences.org> Subject: New IPI vol. 11, no. 4 2017 August issue is now available online Date: July 8, 2017 Inverse Problems and Imaging August 2017 Volume 11, No. 4 Table of Contents Landmark-guided elastic shape analysis of human character motions Martin Bauer, Markus Eslitzbichler and Markus Grasmair A discrete Liouville identity for numerical reconstruction of Schrödinger potentials Liliana Borcea, Fernando Guevara Vasquez and Alexander V. Mamonov Convergence and stability of iteratively reweighted least squares for low-rank matrix recovery Yun Cai and Song Li On the lifting of deterministic convergence rates for inverse problems with stochastic noise Daniel Gerth, Andreas Hofinger and Ronny Ramlau Non-convex TV denoising corrupted by impulse noise Yoon Mo Jung, Taeuk Jeong and Sangwoon Yun Convergence of the gradient method for ill-posed problems Stefan Kindermann Numerical optimization algorithms for wavefront phase retrieval from multiple measurements Ji Li and Tie Zhou Increasing stability for the inverse source scattering problem with multi-frequencies Peijun Li and Ganghua Yuan On a spatial-temporal decomposition of optical flow Aniello Raffaele Patrone and Otmar Scherzer

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