

Today's Editor:

Patricia K. Lamm, Michigan State University

Today's Topics:

Position: W2-Professorship in Inverse Problems  
Position: Postdoctoral Position in Imaging  
Special Issue: Radar Imaging, for Inverse Problems Journal  
Table of Contents: Journal of Inverse and Ill-Posed Problems  
Table of Contents: Inverse Problems  
Table of Contents: Nonlinear Analysis: Modelling and Control

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

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

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

A detailed description can be found under the following link:

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

Submitted by:  
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[www.mathematik.uni-wuerzburg.de/math09.html](http://www.mathematik.uni-wuerzburg.de/math09.html)  
Lehrstuhl IX SciComp <http://www9.mathematik.uni-wuerzburg.de>  
Bürozeiten / Office Times: Mo.-Do. 9<sup>00</sup> - 14<sup>00</sup> Uhr

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

From: "Chen, Ke" <K.Chen@liverpool.ac.uk>  
Date: 5/1/2013

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

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

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

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

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

[http://www.liv.ac.uk/working/job\\_vacancies/research/r-582891/](http://www.liv.ac.uk/working/job_vacancies/research/r-582891/)

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

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

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

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

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

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

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

Journal of Inverse and Ill-Posed Problems   April 2013   Vol. 21, Issue 2  
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New methods for the localization of discontinuities of the first kind for functions of bounded variation  
Ageev, Alexandr L. / Antonova, Tatyana V.

Legendre polynomials as a recommended basis for numerical differentiation in the presence of stochastic white noise

Lu, Shuai / Naumova, Valeriya / Pereverzev, Sergei V.

Inverse boundary value problem for the heat equation with discontinuous coefficients Nakamura, Gen / Sasayama, Satoshi

Severely ill-posed linear parabolic integro-differential problems  
Lorenzi, Alfredo

The Levenberg–Marquardt iteration for numerical inversion of the power density operator  
Bal, Guillaume / Naetar, Wolf / Scherzer, Otmar / Schotland, John

Unique continuation and continuous dependence results for a severely ill-posed integrodifferential parabolic problem with a memory term in the principal part of the differential operator  
Lorenzi, Alfredo / Messina, Francesca

Recent results about the detection of unknown boundaries and inclusions in elastic plates Morassi, Antonino / Rosset, Edi / Vessella, Sergio

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

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Radar imaging  
Brett Borden and Margaret Cheney

Materials identification synthetic aperture radar: progress toward a realized capability Richard A Albanese and Richard L Medina

Imaging frequency-dependent reflectivity from synthetic-aperture radar  
Margaret Cheney

Polarimetric synthetic-aperture inversion for extended targets in clutter  
Kaitlyn Voccola, Margaret Cheney, and Birsen Yazici

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

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

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

Resolution optimization with irregularly sampled Fourier data

Matthew Ferrara, Jason T Parker, and Margaret Cheney

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

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

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

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

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

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

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Richard Morris, Abdul Hamid Kara, and Anjan Biswas

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

Detection of multiple changes in mean by sparse parameter estimation  
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A predator-prey model with disease in prey  
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Stability and absorbing set of parabolic chemotaxis model of Escherichia coli    Salvatore Rionero and Maria Vitiello

Phenomenological model of bacterial aerotaxis with a negative feedback  
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Global dynamics of a delayed epidemic model with latency and relapse  
Rui Xu

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

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