IPNet Digest Volume 22, Number 01 January 1, 2015

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

From: "Dolan, Kirk" <dolank@msu.edu>
Date: December 31, 2014
Subject: 28th Inverse Problems Symposium 2015

You are invited to submit an abstract for the 28th Inverse Problems Symposium 2015.
Website: http://www.inverseproblems2015.org/
Conference will be held May 31-June 2, 2015, Michigan State University, East Lansing, MI.
Timetable:
· Abstract submission opens: January 7, 2015
· Registration opens: February 5, 2015
· Abstract acceptance notification: April 1, 2015
· Early registration closes: May 1, 2015
Contact:
Kirk Dolan, Conference Chair
Keith Woodbury, Conference Co-Chair
James Beck, Conference Honorary Chair

We look forward to seeing you in East Lansing.

Submitted by: Kirk Dolan, Associate Professor
Department of Food Science & Human Nutrition
Department of Biosystems & Agricultural Engineering
135 Trout Food Science Building, Michigan State University
East Lansing, MI 48824
Phone: 517-353-3333 Fax: 517-353-8963

From: Alejandro Frangi <a.frangi@sheffield.ac.uk>
Date: December 6, 2014

Subject: Sheffield VC's Fellowship Programme

Do you have a ground-breaking proposal at the interface where computational imaging and modelling meet?

The Center for Computational Imaging and Simulation Technologies in Biomedicine (CISTIB) at the University of Sheffield welcomes you to a vibrant environment where you will have the space and support needed within a world-class centre. The Vice-Chancellor's Fellowship Programme can provide you with the funding for the independence you need. Just talk to us!

The University of Sheffield is a world top-100 university, renowned for its research and for shaping leading minds across the world. The Vice-Chancellor's Fellowship programme supports exceptional early-career researchers who have the potential to be leaders of the future. This four-year prestigious Fellowship will lead to a permanent (tenured) academic position.
If you have a ground-breaking research proposal, ambition, and an outstanding track record read more about the University and follow our instructions on how to apply.
www.sheffield.ac.uk/ris/vcfellows/vcf2015

If your area of interest is at the interface between computational imaging and modelling, then the Center for Computational Imaging and Simulation Technologies in Biomedicine (CISTIB) can provide you with the context, support, yet independence you need to explore your ideas.

Please, talk to us to explore possibilities.
Alejandro Frangi (a.frangi@sheffield.ac.uk)
Zeike Taylor (z.a.taylor@sheffield.ac.uk)

From: Thomas Strohmer <strohmer@math.ucdavis.edu>
Date: December 2, 2014
Subject: Post-doctoral position available at University of California, Davis

POST-DOCTORAL POSITION IN MATHEMATICS University of California, Davis

The Department of Mathematics is soliciting applications for a Postdoctoral Scholar position with a starting date between March 2015 and October 2015.

To be considered for the position, the Department seeks applicants with a strong knowledge base in Sparse Approximations, Compressive Sensing, Numerical Algorithms, and/or Optimization. Applicants must have completed their Ph.D. by August 31, 2014. The position requires working on research related to a defense-based project (sponsored by DTRA/NSF) led by Professor Thomas Strohmer. The research is concerned with developing theory and algorithms for high-dimensional data analysis, imaging and signal recovery in connection with threat detection. The candidate should also have excellent programming skills in Matlab. The annual salary will be $50K. Salary is negotiable based on experience and funding available. The Postdoc may be asked to

teach one or two courses depending on experience and the Mathematics department needs. The appointment is renewable for a total of up to two years, assuming satisfactory performance. A US-Citizenship is not required.

The UC Davis Math and Applied Math programs have been ranked among the nation’s top programs by the National Research Council in its most recent report. Additional information about the Department may be found at "http://www.math.ucdavis.edu/" http://www.math.ucdavis.edu/.

Applications will be accepted until the positions are filled. To guarantee full consideration, the application should be received by December 30, 2014 by submitting the AMS Cover Sheet and supporting documentation electronically through http://www.mathjobs.org/ (see also https://www.mathjobs.org/jobs/jobs/6810).

The University of California, Davis, is an affirmative action/equal opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, individuals with disabilities, and veterans.

From: <noreply@iopscience.org>
Date: December 2, 2014
Subject: Inverse Problems, Volume 30, Number 12, December 2014

Inverse Problems December 2014 Volume 30, Number 12
Table of Contents

Nonstationary analogue black holes
Gregory Eskin

Exact determination of the volume of an inclusion in a body having constant shear modulus
Andrew E Thaler, and Graeme W Milton

Virtual resistive network and conductivity reconstruction with Faraday's law
Min Gi Lee, Min-Su Ko, and Yong-Jung Kim

A projection-based approach to diffraction tomography on curved boundaries
Gregory T Clement

A model reduction approach to numerical inversion for a parabolic partial differential equation
Liliana Borcea, Vladimir Druskin, Alexander V Mamonov, and Mikhail Zaslavsky

Forward–backward splitting method for quantitative photoacoustic tomography
Xue Zhang, Weifeng Zhou, Xiaoqun Zhang, and Hao Gao

Inverse problem for a one-dimensional dynamical Dirac system (BC-method)
M I Belishev, and V S Mikhailov

Regularized solution of a nonlinear problem in electromagnetic sounding
Gian Piero Deidda, Caterina Fenu, and Giuseppe Rodriguez

The soft x-ray transform
Joanna Klukowska, Gabor T Herman, Joaquin Otón, Roberto Marabini, and José-María Carazo

---

From: <noreply@degruyter.com>
Date: December 2, 2014
Subject: Table of Contents, 'Journal of Inverse and Ill-posed Problems'

Journal of Inverse and Ill-posed Problems December 2014 Volume 22, Issue 6

Table of Contents

Baudouin, Lucie / Cerpa, Eduardo / Crépeau, Emmanuelle / Mercado, Alberto

Reconstructing conductivities with boundary corrected D-bar method
Siltanen, Samuli / Tamminen, Janne P.

Regularization of linear inverse problems with total generalized variation
Bredies, Kristian / Holler, Martin
------ end -------