IPNet Digest Volume 25, Number 08 September 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: 鲁坚 <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

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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

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

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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
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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

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Recovery of seismic wavefields by an lq-norm constrained regularization method
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Capped ℓp approximations for the composite ℓ0 regularization problem
Qia Li and Na Zhang

Stability estimates in tensor tomography
Jan Boman and Vladimir Sharafutdinov

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

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Special issue papers

Combining Radon transform and electrical capacitance tomography for a 2d + 1 imaging device
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Imaging small polarizable scatterers with polarization data
Patrick Bardsley, Maxence Cassier, and Fernando Guevara Vasquez

Spatial-spectral cube matching frame for spectral CT reconstruction
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A fully non-linear optimization approach to acousto-electric tomography
B J Adesokan, K Knudsen, V P Krishnan, and S Roy

Fast imaging of scattering obstacles from phaseless far-field measurements at a fixed frequency
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Inverse scattering problems on a noncompact star graph
Xiao-Chuan Xu, and Chuan-Fu Yang

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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
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Semi-global inversion of v_p to v_s ratio for elastic wavefield inversion
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A bilevel approach for parameter learning in inverse problems
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Equivalence of weak and strong modes of measures on topological vector spaces
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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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https://www.degruyter.com/view/j/jiip.2018.26.issue-5/issue-files/jiip.2018.26.issue-5

.xml

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/
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