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:

Joint image reconstruction method with correlative multi-channel prior for x-ray spectral computed tomography
Daniil Kazantsev, Jakob S Jørgensen, Martin S Andersen, William R B Lionheart, Peter D Lee, and Philip J Withers

A function space framework for structural total variation regularization with applications in inverse problems
Michael Hintermüller, Martin Holler, and Kostas Papafitsoros

The attenuated geodesic x-ray transform
Sean Holman, François Monard, and Plamen Stefanov

Papers:

A dynamical regularization algorithm for solving inverse source problems of elliptic partial differential equations
Ye Zhang, Rongfang Gong, Xiaoliang Cheng, and Mårten Gulliksson

Determination of the self-adjoint matrix Schrödinger operators without the bound state data
Xiao-Chuan Xu, and Chuan-Fu Yang

Uncertainty principles for inverse source problems for electromagnetic and elastic waves
Roland Griesmaier, and John Sylvester

Stable source reconstruction from a finite number of measurements in the multi-frequency inverse source problem
Mirza Karamehmedović, Adrian Kirkeby, and Kim Knudsen

Nondestructive testing of delaminated interfaces between two materials using electromagnetic interrogation
Fioralba Cakoni, Irene de Teresa, and Peter Monk

PET-MRI joint reconstruction with common edge weighted total variation regularization
Ying Zhang, and Xiaoqun Zhang

New parameterizations for Bayesian seismic tomography
Jihane Belhadj, Thomas Romary, Alexandrine Gesret, Mark Noble, and Bruno Figliuzzi

Untangling the nonlinearity in inverse scattering with data-driven reduced order models
Liliana Borcea, Vladimir Druskin, Alexander V Mamonov, and Mikhail Zaslavsky

Gradient descent for robust kernel-based regression
Zheng-Chu Guo, Ting Hu, and Lei Shi

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

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Special issue paper:

Dynamic MRI reconstruction from undersampled data with an anatomical prescan
Julian Rasch, Ville Kolehmainen, Riikka Nivajärvi, Mikko Kettunen, Olli Gröhn, Martin Burger, and Eva-Maria Brinkmann

Papers:
The quasi-optimality criterion in the linear functional strategy
Stefan Kindermann, Sergiy Pereverzyev Jr, and Andrey Pilipenko

Interface with weakly singular points always scatter
Long Li, Guanghui Hu, and Jiansheng Yang

Recovering initial values from light cone traces of solutions of the wave equation
Rakesh, and Tao Yuan

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
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