From: "Inverse Problems Network (IPNet)" <ipnet@math.msu.edu> Subject: IPNet Digest: Volume 23, Number 10 Date: October 4, 2016 at 3:37:09 PM EDT To: <ipnet@list.msu.edu> Volume 23, Number 10 IPNet Digest October 04, 2016 Today's Editor: Patricia (Patti) K. Lamm, Michigan State University Today's Topics: Workshop: Computational Inverse Problems - Insight and Algorithms (PCH60) PhD Position: Inverse Problems, Applied Mathematics at Denmark TU Postdoctoral Position: Inverse Problems at University Duisburg-Essen Table of Contents: Inverse Problems and Imaging 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 From: Kim Knudsen <kiknu@dtu.dk> Subject: Workshop announcemenet Date: September 30, 2016 at 8:05:25 AM EDT To: "'ipnet-digest@math.msu.edu'" <ipnet-digest@math.msu.edu> Computational Inverse Problems, Copenhagen, 2017 We are pleased to announce the following workshop in Copenhagen next summer: PCH60: Computational Inverse Problems - Insight and Algorithms A workshop on the occasion of Per Christian Hansen's 60th birthday Copenhagen, Denmark, August 23-25, 2017 Link: http://pch60.compute.dtu.dk/ The workshop aims at bringing together researchers who are interested in computational aspects of inverse problems, including regularization methods, parameter-choice methods, matrix computations, iterative methods, and software. The invited speakers are: - Joost Batenburg, Centrum Wiskunde & Informatica - Martin Hanke, University of Mainz

- Misha E. Kilmer, Tufts University
- Klaus Mosegaard, Copenhagen University
- James G. Nagy, Emory University

- Lothar Reichel, Kent State University

The workshop will take place at IDA Mødecenter, beautifully located in the center of Copenhagen at the waterfront.

Martin S. Andersen, Yiqiu Dong and Kim Knudsen, DTU Compute

Submitted by: Kim Knudsen Lektor Leder af DTU Compute ph.d.-skole DTU Compute

Danmarks Tekniske Universitet

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From: Kim Knudsen <kiknu@dtu.dk>
Subject: PhD Position in Inverse Problems
Date: September 30, 2016

PhD position in Applied Mathematics / Inverse Problems

The Norwegian University of Science and Technology (NTNU) and the Technical University of Denmark (DTU) invite applications for a PhD position in Applied Mathematics with emphasis on Inverse Problems. The successful applicant will be enrolled in the PhD programs at both universities and acquire a joint PhD degree. The position is expected to be filled by December 2016.

More information can be found at https://www.jobbnorge.no/en/available-jobs/job/129702/phd-position-in-appliedmathematics

Candidates must have a master degree in applied mathematics, or equivalent academic qualifications, and must have a strong background in applied functional analysis.

Applications must be submitted ONLINE by October 20, 2016.

For further information, please contact Markus Grasmair (markug@math.ntnu.no ), or Kim Knudsen (kiknu@dtu.dk ).

Submitted by: Kim Knudsen Lektor Leder af DTU Compute ph.d.-skole DTU Compute

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From: Christian Clason <christian.clason@uni-due.de>
Subject: Postdoc position in inverse problems at University Duisburg-Essen
Date: October 4, 2016

The Faculty of Mathematics at the University of Duisburg-Essen is inviting applications for a position (wissenschaftliche(r) Mitarbeiter(in), 100% TV-L 13, three year contract) in the research project

"Parameter identification in models with sharp phase transition" within the priority programme SPP 1962 (https://spp1962.wias-berlin.de/).

The successful candidate will have a Master's degree in mathematics, solid knowledge of inverse problems, nonsmooth optimization and/or optimization of partial differential equations or variational inequalities as well as experience in the numerical realization of algorithms and their application to concrete problems.

Applications including a CV and copies of relevant certificates should be sent to

Christian Clason Universität Duisburg-Essen Fakulty of Mathematics 45117 Essen

or via email to

christian.clason@uni-due.de

The deadline is

October 24, 2016

As an equal opportunity and affirmative action employer, the university explicitly encourages applications from women as well as from all others who would bring additional diversity dimensions to the university's research and teaching strategies. Preference will be given within the framework of legal possibilities to such candidates with essentially the same qualifications.

For more details, please see the official announcement of the university at https://goo.gl/xxGM6J (PDF, in German). Information about the research group and the faculty can be found at https://www.uni-due.de/mathematik/agclason.

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

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From: Susan Cummins <journal@aimsciences.org>
Subject: New IPI vol. 10, no. 3 2016 August issue is now available online
Date: September 9, 2016

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Ralf Hielscher and Michael Quellmalz Lavrentiev's regularization method in Hilbert spaces revisited Bernd Hofmann, Barbara Kaltenbacher and Elena Resmerita Reconstruction of penetrable obstacles in the anisotropic acoustic scattering Yi-Hsuan Lin A gradient-based method for atmospheric tomography Daniela Saxenhuber and Ronny Ramlau Image segmentation based on the hybrid total variation model and the K-means clustering strategy Baoli Shi, Zhi-Feng Pang and Jing Xu Error bounds and stability in the 10 regularized for CT reconstruction from small projections Chengxiang Wang and Li Zeng The reciprocity gap method for a cavity in an inhomogeneous medium Fang Zeng, Xiaodong Liu, Jiguang Sun and Liwei Xu American Institute of Mathematical Sciences From: <noreply@degruyter.com> Subject: Contents, 'Journal of Inverse and Ill-posed Problems' Date: September 30, 2016 Journal of Inverse and Ill-posed Problems October 2016 Volume 24, Issue 5 Table of Contents A finite element method for the inverse problem of boundary data recovery in an oxygen balance model Ben Belgacem, Faker / Débit, Naïma / El Fekih, Henda / Khiari, Souad On regularization and error estimates for the Cauchy problem of the modified inhomogeneous Helmholtz equation Hieu, Phan Trung / Quan, Pham Hoang Application of the factorization method to retrieve a crack from near field data Guo, Jun / Hu, Junhao / Yan, Guozheng Solution to a class of inverse problems for a system of loaded ordinary differential equations with integral conditions Aida-zade, Kamil R. / Abdullayev, Vagif M.

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