IPNet Digest Volume 29, Number 18 December 20, 2022

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:
https://ipnet.math.msu.edu/

From: IPNet
Sent: Monday, November 14, 2022
Subject: IMPORTANT IPNet Subscription Changes

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*** Important IPNet Subscription Changes ***
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The email you have received from Majordomo@helsinki.fi is legitimate. Its purpose is to notify you of the subscription changes which are occurring over the next couple of months for the IPNet.

As a reminder, the IPNet will soon be moving under the umbrella of the Inverse Problems International Association (IPIA), with initial hosting generously provided by the Finnish Inverse Problems Society (fips) and the University of Helsinki. More information may be found in the IPNet Digest mailed out on November 14, 2022.

Subscriptions will continue to be free.

Until the transition is complete, submissions to the IPNet Digest may be sent as usual to:
ipnet-digest@math.msu.edu.

From: Manabu Machida <manabu.machida@gmail.com>
Sent: Monday, December 12, 2022
Subject: RIMS Workshop, January 2023

RIMS Workshop on Inverse Problems, Medical Imaging, and Related Topics
www.mmachida.com/RIMS2023/

Date: From January 10, 2023 to January 13, 2023
Venue: Research Institute for Mathematical Sciences (RIMS) at Kyoto University, Japan

This is a hybrid conference. So, online (Zoom) participation is also welcome.

Registration is necessary for both in-person and online participation
(by January 4, 2023):
www.mmachida.com/RIMS2023/

From: Pereyra, Marcelo <M.Pereyra@hw.ac.uk>
Sent: Tuesday, December 13, 2022
Subject: Fully funded PhD scholarships at Heriot-Watt University and the Maxwell Institute for Mathematical Sciences (Edinburgh, UK)

Dear all,

Every year Heriot-Watt University and the Maxwell Institute for Mathematical Sciences (Edinburgh, UK) advertise a number of fully funded PhD Scholarships.

Applications are open in any area of Pure and Applied Mathematics, including (but not restricted to) Algebra, Mathematical Physics, Analysis of PDEs, Inverse Problems, Uncertainty Quantification, Calculus of Variations, Probability, Stochastic Analysis, Numerical Analysis, Mathematical Biology and Ecology, Modelling, Actuarial Mathematics etc.

The deadline for applications is the 23rd of January 2023. We will accept applications also after this deadline, but the best chances are before January 23rd.

For information on our programmes, see the link below
https://www.maxwell.ac.uk/graduate-school/

A description of the PhD projects offered by the HW research groups can be found here

https://www.hw.ac.uk/uk/schools/mathematical-computer-sciences/research/phd/phd-opportunities-in-mathematical-sciences.htm

We actively promote Equality, Diversity and Inclusion and welcome applications from all qualified applicants.

Best wishes,
Michela Ottobre (on behalf of Heriot-Watt University)

Submitted by:

Dr Marcelo Pereyra | Associate Professor in Statistics | Maxwell Institute for Mathematical Sciences & School of Mathematical and Computer Sciences Heriot-Watt University
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From: Moser, Melanie (melanie.moser@uni-graz.at) <melanie.moser@uni-graz.at>
Sent: Wednesday, December 14, 2022
Subject: University Assistant with doctorate, Graz, Austria

At the University of Graz, researchers and students work across a broad disciplinary spectrum to enlarge our knowledge, and find strategies to deal with challenges our society is confronted with and to shape tomorrow's world. The University of Graz is a place which combines high quality academic research and teaching, where achievement is rewarded, careers are promoted, and social diversity is encouraged – all within a modern, award-winning working environment. Our motto: We work for tomorrow. Join us!

The Institute of Mathematics and Scientific Computing is looking for a University Assistant with doctorate (m/f/d)
https://jobs.uni-graz.at/ausschreibung/en/?jh=4835admw2kc0d4ax0iqs8h3nok3g91c

40 hours a week
fixed-term employment for 6 years* position to be filled as of now

Your duties

- Research in the field of applied mathematics with emphasis on the analysis and the numerics of problems in mathematical image processing, inverse problems and data sciences
- Collaboration in interdisciplinary cooperation projects and third-party funded projects
- Independent teaching of courses in the field of applied mathematics, supervision of students and holding of examinations
- Participation in organizational and administrative matters

Your Profile

- Doctoral degree in a mathematical branch of study
- Solid knowledge of one of the following fields: mathematical methods in image processing, inverse problems, numerical algorithms for imaging and inverse problems
- Knowledge in one or more of the following fields: functional analysis, continuous mathematical optimization, regularization theory, parameter identification with partial differential equations, geometric measure theory, mathematical data science (desirable)
- Ability for integration into the institute's research profile and in particular into interdisciplinary cooperation projects
- Ability to teach in german language

- Capacity for teamwork, organizational talent and ability to communicate

Our Offer

Classification
Salary scheme of the Universitäten-KV (University Collective Agreement): B1

Minimum Salary
The minimum salary as stated in the collective agreement and according to the classification scheme is EUR 4.061,50 gross/month (for full-time employment). This minimum salary may be higher due to previous employment periods eligible for inclusion and other earnings and remunerations.

We offer you a job with a lot of responsibility and variety. You can expect an enjoyable work climate, flexible work hours and numerous possibilities for further education and personal development. Take advantage of the chance to enter into a challenging work environment full of team spirit and enthusiasm for your job.

Application deadline: 04.01.2023

The University of Graz strives to increase the proportion of women in particular in management and faculty positions and therefore encourages qualified women to apply.

Especially with regard to academic staff, we welcome applications from persons with disabilities who meet the requirements of the advertised position.

Applicants with proof of COVID-19 vaccination will be given preference if equally qualified. For further information, please refer to our general application regulations at https://jobs.uni-graz.at/en/FAQ/

* Please note the limitations of § 109 UG (university act), especially in the case of short contract terms. For further information, please refer to our general application regulations at https://jobs.uni-graz.at/en/FAQ/.

For further information or questions, please contact:

Iva Matijevic
iva.matijevic@uni-graz.at
+43 316 / 380 - 1196

Please note that in order to comply with the applicable data protection regulations, we can only accept applications via our web-based applicant tool for this vacant position.

From: Aretha Teckentrup <a.teckentrup@ed.ac.uk>

Sent: Thursday, December 15, 2022
Subject: Postdoc position in Bayesian inverse problems, University of Edinburgh

Dear all,

a postdoc position is available in my group in the School of Mathematics at the University of Edinburgh, with starting date between April 1st and October 1st 2023.

Application deadline is 5pm UK time on January 9th 2023.

More information on the position, and the application portal, are available at the following link:

https://urldefense.com/v3/__https://elxw.fa.em3.oraclecloud.com/hcmUI/CandidateExperience/en/sites/CX_1001/job/5997__;!!HXCxUKc!3kqmMvRwSRh9kXz9Pu2SrA_M4lAtnsK2vxmiqgJxDnfROyMnwj7J7U8mlcFK-PKAU6_iPViZ6Noq07jzoxftraTfd_-1zio$

The topic of the research is generally Bayesian inverse problems and emulators/surrogate models, but is somewhat flexible and could include MCMC (e.g. delayed acceptance and pseudo-marginal methods), Gaussian process regression in high dimensions (sparse grids/QMC points, weighted kernels), deep Gaussian processes, or theoretical foundations of randomised surrogate models and variance inflation.

I'm happy to answer any questions by email.

Best wishes,
Aretha

Submitted by:
Aretha Teckentrup
Reader in Mathematics of Data Science
School of Mathematics, University of Edinburgh
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