# Contents

IPNet Digest Volume 33, Number 1 23 January 2026

Today's Editor: Matti Lassas University of Helsinki

Today's Topics:

1. Summer school "Applied Harmonic Analysis and Machine Learning" - Genoa, 7-11 September 2026
2. Table of contents (AIMS)
3. Table of contents

Submissions for IPNet Digest: submit-ipnet@helsinki.fi

Information about IPNet: https://www.helsinki.fi/en/researchgroups/inverse-problems/ipnet-inverse-problems-network

……

**From:** Matteo Santacesaria Matteo.Santacesaria@unige.it
**Date**: Friday 9 January 2026
**Subject:** Postdoctoral Researcher at LUT

Dear colleague,

As part of the scientific activity and educational offer of MaLGa - Machine Learning Genoa Center, we are delighted to announce the summer school "Applied Harmonic Analysis and Machine Learning", which will take place in Genoa (Italy) on September 7–11, 2026. The intended audience includes graduate students in Mathematics, Physics, Computer Science and Engineering, as well as postdoctoral fellows and young researchers.

The lecturers of this sixth edition will be Michael Bronstein (University of Oxford), Philipp Petersen (University of Vienna) and Clarice Poon (University of Warwick). We will also host a one-day workshop with invited speakers and selected contributed talks/posters from the participants.

The school will be held in person only. Limited funding is available to cover accommodation expenses.

The registration form, as well as further information and updates, can be found on the webpage https://malga.unige.it/education/schools/ahaml2026/.

We kindly ask you to circulate this message among all the potentially interested colleagues/participants.

We look forward to seeing you in Genoa!

The organizers
G. S. Alberti
N. Aroua
F. De Mari
E. De Vito
S. Sanna
M. Santacesaria

Matteo Santacesaria
Associate Professor
MaLGa - Machine Learning Genoa Center
Department of Mathematics

University of Genoa
Personal Homepage

……
**From**: Charley Denton cdenton@aimsciences.org
**Date:** Friday, 5 December, 2025
**Subject**: IPNet Digest table of contents submission

IPI April 2026 Vol. 21 articles:

1. **Maximum discrepancy generative regularization and Non-negative Matrix Factorization for single channel source separation**

Martin Ludvigsen and Markus Grasmair

2. **Stability for inverse random source problems of the polyharmonic wave equation**

Peijun Li, Zhenqian Li and Ying Liang

3. **A direct sampling method for inverse elastic scattering in cavity structure**

Jiahui Gao, Shuxin Li and Junliang Lv

4. **On numerical methods for inverse eigenvalue problems based on trace formulae and convergence analysis**

Xiaowen Li and Xiang Xu

5. **An inverse problem for a linear system of dispersive equations**

Deissy Marcela Pizo and Juan Carlos Muñoz Grajales

6. **A novel shape optimization approach for source identification in elliptic equations**

Wei Gong and Ziyi Zhang

7. **On the transmission eigenvalues for scattering by a clamped planar region**

Isaac Harris, Andreas Kleefeld and Heejin Lee

8. **Neural Shrödinger bridge matching for pansharpening**

Zi-Han Cao, Xiao Wu, Liang-Jian Deng and Gemine Vivone

9. **Consistency of the Bayes method for the inverse scattering problem with randomly truncated sieve priors**

Takashi Furuya, Pu-Zhao Kow and Jenn-Nan Wang

10. **Learnable boundary enhanced Softmax layer based on gray morphology for data-driven image segmentation**

Wenxiao Li, Xiangyue Wang, Faqiang Wang and Jun Liu

11. **Correction to "Recovering nonsmooth coefficients for higher-order perturbations of a polyharmonic operator"**

R. M. Brown and L. D. Gauthier

Inverse Problems and Imaging

Charley Denton
Communications Specialist
American Institute of Mathematical Sciences
Email: cdenton@aimsciences.org

……

**From:** noreply@iopscience.org
**Subject:** Inverse Problems, Volume 42, Number 1, January 2026

## Papers



::::::::::::::::::::::::::::::**end**::::::::::::::::::::::::::::::::::::