

Optimization in the Länd

$$\min \frac{1}{2} ||f_{\text{true}} - f_{\alpha}||_{L^2(\Omega)}^2$$

$$f_{\alpha} = \operatorname{argmin}_{f \in BV(\Omega)} \{ \frac{1}{2} ||g - f||_{L^2(\Omega)}^2 + \alpha \operatorname{TV}^{\gamma}(f) + \frac{\mu}{2} ||\nabla f||_{L^2(\Omega; \mathbb{R}^n)}^2 \}$$

IFIP Working Group 7.4 and 7.8
Workshop 2026

Recent advances in optimization and inverse problems, promoting new interactions and collaboration opportunities.



 25–27 NOVEMBER 2026

 Department of Mathematics
University of Mannheim

This workshop, taking place **25–27 November 2026**, will feature recent advances in optimization and inverse problems, aiming to promote new interactions and explore possible collaboration opportunities.

The workshop is planned as a joint meeting between the **IFIP-TC7** working groups on **Inverse Problems (WG 7.4)** and **Nonlinear Optimization (WG 7.8)**, and organized by the mathematical optimization and scientific computing labs in Mannheim and Heidelberg.

Thematically, the workshop is focussed on the interface between inverse problems and mathematical optimization.

Main topics

-  Advances in optimization methods for inverse problems
-  Data-driven methodologies
-  Computational approaches

CONFIRMED PARTICIPANTS

- **Behzad Azmi** (U Konstanz)
 - **Kristian Bredies** (U Graz)
 - **Marcello Carioni** (U Twente)
 - **Constantin Christof** (TU Darmstadt)
 - **Matthias Ehrhardt** (U Bath)
 - **Caroline Geiersbach** (U Klagenfurt)
 - **Pontus Giselsson** (U Lund)
 - **Bernadette Hahn-Rigaud** (U Stuttgart)
 - **Bastian von Harrach** (U Frankfurt)
 - **Thorsten Hohage** (U Göttingen)
 - **Andrea Iannelli** (U Stuttgart)
 - **Ekaterina Kostina** (U Heidelberg)
 - **Dirk Lorenz** (U Bremen)
 - **Christian Meyer** (TU Dortmund)
 - **Panagiotis Patrinos** (KU Leuven)
 - **Stefania Petra** (U Heidelberg)
 - **Nelly Pustelnik** (ENS Lyon)
- **Radu Boţ** (U Vienna)
 - **Luca Calatroni** (U Genoa)
 - **Christian Clason** (U Graz)
 - **Pavel Dvurechensky** (WIAS Berlin)
 - **Jalal Fadili** (CNRS)
 - **Pontus Giselsson** (U Lund)
 - **Markus Haltmeier** (U Innsbruck)
 - **Michael Hintermüller** (WIAS Berlin)
 - **Martin Holler** (U Graz)
 - **Barbara Kaltenbacher** (U Klagenfurt)
 - **Tristan van Leeuwen** (CWI Amsterdam)
 - **Russell Luke** (U Göttingen)
 - **Cesare Molinari** (U Genova)
 - **Peter Ochs** (U Saarland)
 - **Edouard Pauwels** (TSE Toulouse)
 - **Juan Peypouquet** (U Groningen)
- **Anton Schiela** (U Bayreuth)
 - **Martin Schmidt** (U Trier)
 - **Oliver Stein** (KIT)
 - **Claudia Totzeck** (U Wuppertal)
 - **Stefan Ulbrich** (TU Darmstadt)
 - **Tuomo Valkonen** (U Helsinki)
 - **Silvia Villa** (U Genova)
 - **Frank Werner** (U Würzburg)
 - **Simon Weißmann** (U Mannheim)

Website: jschnebel.github.io/optimization-laend.de

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