

Publication list

Lingyun Qiu (qiu.lingyun@ima.umn.edu)

April 6, 2015

1. Entire positive solution to the system of nonlinear elliptic equations (with Miaoxin Yao) *Boundary Value Problems*, Article ID 3249, Volume 2006 (2006).
2. Local analysis of inverse problems: Hölder stability and iterative reconstruction (with Maarten V. de Hoop and Otmar Scherzer), Highlights of 2012, *Inverse Problems*, 28(2012), 045001.
3. Lipschitz stability of an inverse boundary value problem for a Schrödinger type equation (with Elena Beretta and Maarten V. de Hoop), *SIAM Journal on Mathematical Analysis*, 45 (2013), no. 2, 679699.
4. Inverse boundary value problems for time-harmonic waves: Conditional stability and iterative reconstruction, *PhD thesis*, 2013.
5. An analysis of a multi-level projected steepest descent iteration for nonlinear inverse problems in Banach spaces subject to stability constraints (with Maarten V. de Hoop and Otmar Scherzer), *Numerische Mathematik*, 2014, 1-22.
6. Inverse boundary value problem for the Helmholtz equation: Multi-level iterative reconstruction based on conditional Lipschitz stability estimates (with Elena Beretta, Maarten V. de Hoop and Otmar Scherzer), *Submitted*.
7. Generalized Convergence Rates Results for Linear Inverse Problems in Hilbert Spaces (with Roman Andreev, Peter Elbau, Maarten V. de Hoop and Otmar Scherzer), *Numerical Functional Analysis and Optimization*, to appear.
8. Modelling of Time-Harmonic Seismic Data with the Helmholtz Equation and Scattering Series (with Maarten V. de Hoop and Antônio Sá Barreto), *preprint*.
9. Effects of parameterization on the parameter estimation problems (with Martin-Daniel Lacasse), *Preprint*.
10. Modelling of time-harmonic seismic data with the Helmholtz equation and scattering series (with Maarten V. de Hoop and Antônio Sá Barreto), *Preprint*.
11. Analysis of the magneto-acoustic tomography with magnetic induction (with Fadil Santosa), *Submitted*.