

Recent Developments in Inverse Coefficient and Source Problems

**Minisymposium will be held on the occasion
of the 60th birthday of Professor Alemdar Hasanoglu (Hasanov)**

Organizers:

A. El Badia, University of Technology of Compiegne, France (abdellatif.elbadia@utc.fr)
B. Hofmann, Chemnitz University of Technology, Germany (bernd.hofmann@mathematik.tu-chemnitz.de)
S. I. Kabanikhin, Ins. of Computational Mathematics and Mathematical Geophysics, Russia (kabanikh@math.nsc.ru)
D. Lesnic, University of Leeds, UK (D.Lesnic@leeds.ac.uk)
M. Z. Nashed, University of Central Florida, USA (M.Nashed@ucf.edu)

Invited Speakers

V. Vasin, *Modified Newton type methods for approximation of solutions to nonlinear inverse problems and applications*, Institute of Mathematics and Mechanics, Ekaterinburg, Russia, vasin@imm.uran.ru

V.G. Romanov, *Inverse problems for viscoelasticity equations*, Sobolev Institute of Mathematics, Russia, romanov0511@gmail.com

G.S. Dulikravich, *Inverse determination of spatially varying diffusion coefficient in two dimensional objects*, Florida International University, USA, dulikrav@fiu.edu

A. Yagola, *Inverse problems on compact sets for PDE*, Moscow State University, Russia, yagola@physics.msu.ru

A.D. Iskenderov, R.K. Tagiyev, *Variational method of solving the coefficient identification problems for quasilinear parabolic equation*, Lenkeran State University, Azerbaijan, r.tagiyev@list.ru

M. Slodička, *Recovery of a time-dependent source in a parabolic problem by means of boundary measurements*, Ghent University, Belgium, ms@cage.ugent.be

D. N. Hào, B.V. Huong, Daniel Lesnic, *Identification of nonlinear heat transfer laws from boundary observations*, Hanoi Institute of Mathematics, Vietnam, hao@math.ac.vn

A. El Badia, *Stability estimates for an inverse source problem of Helmholtz's equation from a single Cauchy data at fixed frequency*, University of Technology of Compiegne, France

D. Lesnic, *Determination of additive and multiplicative sources in the heat equation*, University of Leeds, UK, amt5ld@maths.leeds.ac.uk

B. Mukanova, M.Kulbai, E. Tazhibayev, *Inverse source problem for advection - diffusion equation: the numerical recovery via boundary measurement data*, L.N. Gumilev Eurasian University, Kazakhstan, mbsha01@gmail.com

A. Ilyin, S. Kabanikhin, **D. Voronov**, *Numerical solutions of the inverse problems of pharmacokinetics*, NSU, Novosibirsk, Russia, voronov-dima@mail.ru; ICM&MG, Novosibirsk, Russia; «Scientific Center for anti-infectious drugs», Almaty, Kazakhstan

O. Baysal, A. Hasanov, *Identification of an unknown time dependent source in a vibrating cantilevered beam from boundary measured bending moment*, Izmir University, Turkey, onur.baysal@izmir.edu.tr

B. Akpayev, A. Hasanov, M. Otelbaev, *A source identification problem related to mathematical model of laser surface heating*, L.N. Gumilev Eurasian University, Kazakhstan, bakitjan.akpayev@gmail.com; Izmir University, Turkey

B. Pektaş, *Determination of a spacewise source in advection-diffusion equation*, Izmir University, Turkey, burhan.pektas@izmir.edu.tr

A. Erdem, *Experimental study for characterization of time dependent source term and initial temperature*, Kocaeli University, Turkey, erdem.arzu@gmail.com

M. Shishlenin, *Regularization of the continuation problems*, Sobolev Institute of Mathematics, Russia, mshishlenin@ngs.ru

A.A. Sedipkov, *The inverse spectral problem for the impedance equation with piecewise continuous coefficients*, Sobolev Institute of Mathematics, Russia, sedipkov@math.nsc.ru

I.V. Marinin, D. Khidasheli, *3D visualization and integrated techniques for investigation of the tsunami phenomena*, ICM&MG SB RAS, Novosibirsk, Russia, igor.marinin@inbox.ru; WAPMERR, Moscow, Russia

E. A. Veral, W. P. Millhiser, *Designing appointment system templates with operational performance targets*, Baruch College, Zicklin School of Business, USA Emre.veral@baruch.cuny.edu

Z. Muradoğlu, F. İlhan, *Numerical solution of inverse coefficient problem for non-linear biharmonic equation*, Kocaeli University, zahir@kocaeli.edu.tr

E. Ozbilge, *Convergence theorem of a 1D coefficient inverse problem*, Izmir University of Economics, Turkey, ebru.ozbilge@ieu.edu.tr

B. Abdelaziz, *Reconstruction of extended sources with small supports in some elliptic equations from a single Cauchy data*, University of Technology of Compiègne, France, batoul.abdelaziz@hds.utc.fr

A. Hasanov, *Relationship between representation formulas for unique regularized solutions of inverse source problems with final overdetermination and singular value decomposition of input-output operators*, Izmir University, Turkey, alemdar.hasanoglu@izmir.edu.tr

T. Johansson, *On source and parameter reconstruction from final data in the heat equation*, University of Linköping, Sweden, tomas.johansson@liu.se

S. Asiri, Taous-Meriem Laleg-Kirati, *Modulating functions method for wave source estimation* KAUST, Saudi Arabia, sharefa.asiri@kaust.edu.sa