

Arvutusmeetodid

Janno, Jaan 2008 http://www.ester.ee/record=b2364618*est

Arvutusmeetodid : õpik kõrgkoolidele

Janno, Jaan 2016 https://www.ester.ee/record=b4567655*est

A class of inverse problems for viscoelastic material with dominating Newtonian viscosity

Janno, Jaan; Wolfersdorf, Lothar von Quarterly of applied mathematics 1999 / 3, p. 465-474

Constrained discrete least squares method for identifying of memory kernels in viscoelasticity

Kiss, Eva Maria; Janno, Jaan Advances of Conference, held in Milan, 18.-21.03.1998 1998 / p. 17

Determination of a time- and space-dependent heat flux relaxation function by means of a restricted Dirichlet-to-Neumann operator

Janno, Jaan Mathematical methods in the applied sciences 2004 / p. 1241-1260

Determination of degenerate relaxation functions in three-dimensional viscoelasticity

Janno, Jaan Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2003 / 2, p. 171-185

Determination of the order of fractional derivative and a kernel in an inverse problem for a generalized time fractional diffusion equation [Online resource]

Janno, Jaan Electronic journal of differential equations 2016 / p. 1-28 <http://ejde.math.txstate.edu>

Determination of time-dependent sources and parameters of nonlocal diffusion and wave equations from final data

Janno, Jaan Fractional calculus and applied analysis 2020 / p. 1678–1701 <https://doi.org/10.1515/fca-2020-0083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Determining properties of nonlinear microstructured materials by means of solitary waves

Janno, Jaan; Engelbrecht, Jüri Proc. 5th International Conference on Inverse Problems in Engineering : Cambridge, 2005. Vol. II 2005 / p. J02 1-6

A general class of autoconvolution equations of the third kind

Janno, Jaan; Wolfersdorf, Lothar von Zeitschrift für Analysis und ihre Anwendungen = Journal for analysis and its applications 2005 / p. 523-543 https://www.researchgate.net/publication/228746841_A_General_Class_of_Autoconvolution_Equations_of_the_Third_Kind

A general inverse problem for a memory kernel in one-dimensional viscoelasticity

Janno, Jaan; Wolfersdorf, Lothar von Zeitschrift für Analysis und ihre Anwendungen = Journal for analysis and its applications 2002 / 2, p. 465-483

Identification of a kernel in an evolutionary integral equation occurring in subdiffusion

Janno, Jaan; Kasemets, Kairi Journal of inverse and ill-posed problems 2017 / p. 777-798 <https://doi.org/10.1515/jiip-2016-0082>

Identification of a special class of memory kernels in one-dimensional heat flow

Janno, Jaan; Wolfersdorf, Lothar von Journal of inverse and ill-posed problems 2001 / 4, p. 389-411

Identification of exponentially decreasing memory kernel in heat conduction

Janno, Jaan Abstracts of 3rd Meeting on Inverse and Direct Problems and Applications : Italy, Gargnano, 2003 2003 / p. 21

Identification of exponentially decreasing memory kernels in heat conduction and viscoelasticity by finite-dimensional inverse problems

Janno, Jaan; Wolfersdorf, Lothar von Journal of inverse and ill-posed problems 2005 / 1, p. 65-92

Identification of memory kernels in general linear heat flow

Janno, Jaan; Wolfersdorf, Lothar von Journal of inverse and ill-posed problems 1998 / p. 141-164

Identification of memory kernels in heat conduction and viscoelasticity

Janno, Jaan; Wolfersdorf, Lothar von International series of numerical mathematics 1999 / p. 301-308

Identification of memory kernels in one-dimensional heat flow with boundary conditions of the third kind

Janno, Jaan; Wolfersdorf, Lothar von Inverse problems in engineering 2001 / p. 175-198

Identification of microstructured materials by phase and group velocities

Janno, Jaan; Engelbrecht, Jüri Mathematical modelling and analysis 2009 / 1, p. 57-68

<https://www.tandfonline.com/doi/abs/10.3846/1392-6292.2009.14.57-68>

Identification of properties of microstructured materials by means of Gaussian wave packets and solitary waves

Janno, Jaan; Engelbrecht, Jüri 5th International Conference on Optimal Research "Simulation and Optimization in Business and Industry" : May 17-20, 2006, Tallinn, Estonia : programme and abstracts 2006 / p. 1

Identification of two degenerate time- and space-dependent kernels in a parabolic equation [Electronic resource]

Pais, Enno; Janno, Jaan Electronic journal of differential equations 2005 / [20] p. - URL: <http://ejde.math.txstate.edu>

Identification of weakly singular memory kernels in viscoelasticity

Janno, Jaan; Wolfersdorf, Lothar von Zeitschrift für angewandte Mathematik und Mechanik 1998 / S. 391-403

Identification of weakly singular relaxation kernels in three-dimensional viscoelasticity

Janno, Jaan Journal of mathematical analysis and applications 2001 / p. 133-159

Integraalvõrandid

Janno, Jaan 2005 https://www.ester.ee/record=b1994248*est

Integro-differential equations of first order with autoconvolution integral

Janno, Jaan; Wolfersdorf, Lothar von Journal of integral equations and applications 2009 / 1, p. 39-75

Integro-differential equations of first order with autoconvolution integral, II

Wolfersdorf, Lothar von; Janno, Jaan Journal of integral equations and applications 2011 / p. 331-349

An inverse problem arising in compression of poro-viscoelastic medium

Janno, Jaan Proceedings of the Estonian Academy of Sciences. Physics. Mathematics 2000 / 2, p. 75-89

An inverse problem for a generalized fractional derivative with an application in reconstruction of time- and space-dependent sources in fractional diffusion and wave equations

Kinash, Nataliia; Janno, Jaan Mathematics 2019 / art. 1138, p. 1-16 <https://doi.org/10.3390/math7121138> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An inverse problem for identification of a time- and space-dependent memory kernel in viscoelasticity

Janno, Jaan; Wolfersdorf, Lothar von Inverse problems 2001 / p. 13-24

Inverse problem to determine an order of derivative and a source term in a time fractional diffusion equation from final measurements

Janno, Jaan; Kinash, Nataliia Mathematical Modelling and Analysis : 23rd international conference, May 29 - June 1, 2018, Sigulda, Latvia : abstracts 2018 / p. 30

Inverse problem to determine degenerate memory kernels in heat flux with third kind boundary conditions

Pais, Enno; Janno, Jaan Mathematical modelling and analysis 2006 / 4, p. 472-450

<https://journals.vilniustech.lt/index.php/MMA/article/view/9651>

Inverse problem to determine order of derivative and kernel in generalized time fractional diffusion equation

Janno, Jaan Mathematical modelling and analysis 2016 : abstracts 2016 / p. 32 http://www.ester.ee/record=b4573512*est

Inverse problem to determine two time-dependent source factors of fractional diffusion-wave equations from final data and simultaneous reconstruction of location and time history of a point source

Janno, Jaan Mathematics 2023 / art. 456, 17 p <https://doi.org/10.3390/math11020456>

Inverse problem to identify a space-dependent diffusivity coefficient in a generalized subdiffusion equation from final data

Janno, Jaan; Kasemets, Kairi; Kinash, Nataliia Proceedings of the Estonian Academy of Sciences 2022 / p. 3-15

<https://doi.org/10.3176/proc.2022.1.01> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Inverse problems for a generalized subdiffusion equation with final overdetermination

Kinash, Nataliia; Janno, Jaan Mathematical modelling and analysis 2019 / p. 236-262 <https://doi.org/10.3846/mma.2019.016> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Inverse problems for a parabolic integrodifferential equation in a convolutional weak form

Kasemets, Kairi; Janno, Jaan Abstract and applied analysis 2013 / p. 1-16 : ill

Inverse problems for a perturbed time fractional diffusion equation with final overdetermination

Kinash, Nataliia; Janno, Jaan Mathematical methods in the applied sciences 2018 / p. 1925-1943 : ill

<https://doi.org/10.1002/mma.4719> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Inverse problems for a subdiffusion equation with final overdetermination

Kinash, Nataliia; Janno, Jaan Mathematical Modelling and Analysis : 23rd international conference, May 29 - June 1, 2018, Sigulda, Latvia : abstracts 2018 / p. 34

Inverse problems for determining monotone weakly singular relaxation kernels in viscoelasticity

Janno, Jaan Nonlinear analysis 2000 / p. 943-962

Inverse problems for generalized subdiffusion equations = Pöördülesanded üldistatud subdifusioonivõrranditele

Kinash, Nataliia 2020 <https://digikogu.taltech.ee/et/Item/a3776907-fc6f-42e1-9d7c-5a0e6ae314f6>

Inverse problems for identification of memory kernels in thermo- and poroviscoelasticity

Janno, Jaan; Wolfersdorf, Lothar von Mathematical methods in the applied sciences 1998 / p. 1495-1517

Inverse problems for integrodifferential equations with space- and time-dependent kernels

Janno, Jaan 7th International Conference : Mathematical Modelling and Analysis, May 31 - June 2, 2002, Kääriku, Estonia : abstracts 2002 / p. 24

Inverse problems for memory kernels by Laplace transform methods

Janno, Jaan; Wolfersdorf, Lothar von Zeitschrift für Analysis und ihre Anwendungen = Journal for analysis and its applications 2000 / 2, p. 489-510

Inverse problems for microstructured materials

Janno, Jaan 4th International Conference Inverse Problems : Modelling and Simulation : Fethiye, 26-30.05.2008 : abstracts 2008 / p. 85

Inverse problems for parabolic integro-differential equations with instant and integral conditions

Kasemets, Kairi; Janno, Jaan 17th International conference on "Mathematical Modelling and Analysis" : June 6-9, 2012, Tallinn, Estonia : abstracts 2012 / p. 68

Inverse problems for parabolic integro-differential equations with instant and integral conditions = Hetk- ja integraaltingimustega pöördülesanded paraboolsetele integrodiferentsiaalvõrranditele

Kasemets, Kairi 2016

Inverse problems for parabolic integro-differential equations with with two kernels

Kasemets, Kairi; Janno, Jaan 18th International Conference on Mathematical Modelling and Analysis and 4th International Conference on Approximation Methods and Orthogonal Expansions : May 27-30, 2013, Tartu, Estonia : abstracts : the conference is dedicated to the 75th birthday of professor Gennadi Vainikko 2013 / p. 57

Inverse problems related to a coupled system of microstructure

Janno, Jaan; Engelbrecht, Jüri Inverse problems 2008 / p. 045017 (15 p.) : ill

Inverse problems to determine non-homogeneous degenerate memory kernels in heat flow

Pais, Enno 2007 https://www.ester.ee/record=b2298281*est

Inverse problems with unknown boundary conditions and final overdetermination for time fractional diffusion-wave equations in cylindrical domains

Janno, Jaan Mathematics 2021 / art. 2541, 22 p <https://doi.org/10.3390/math9202541> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An inverse solitary wave problem related to microstructured materials

Janno, Jaan; Engelbrecht, Jüri Inverse problems 2005 / p. 2019-2034

Inverse source problem with a posteriori boundary measurement for fractional diffusion equations

Janno, Jaan; Kian, Yavar arXiv.org 2022 / 17 p <https://doi.org/10.48550/arXiv.2207.06468>

Inverse source problem with a posteriori boundary measurement for fractional diffusion equations

Janno, Jaan; Kian, Yavar Mathematical methods in the applied sciences 2023 / p. 15868-15882 <https://doi.org/10.1002/mma.9432>

Keerukate tekstülesannete lahendaja : [riigi teaduspreemia laureaat TTÜ matemaatikainstituudi direktor Jaan Janno]

Janno, Jaan; Strandberg, Marek Sirp 2012 / lk. 22 : foto <https://sirp.ee/s1-artiklid/c9-sotsiaalia/keerukate-tekstuelesannete-lahendaja/>

Lavrent'ev regularization of ill-posed problems containing nonlinear near-to-monotone operators with application to autoconvolution equation

Janno, Jaan Inverse problems 2000 / p. 333-348 : ill <https://iopscience.iop.org/article/10.1088/0266-5611/16/2/305/meta>

Matemaatika ja matemaatiline statistika [Võrguväljaanne]

Janno, Jaan Eesti Teaduste Akadeemia : Youtube kanal 2020 / video [Matemaatika ja matemaatiline statistika](#)

Matemaatika on üha põnevam teadus : [Mente et Manu küsimustele vastab riikliku teaduspreemia laureaat professor Jaan Janno]

Janno, Jaan; Ummelas, Mart Mente et Manu 2012 / lk. 1-2 : portr https://www.ester.ee/record=b1242496*est

Mathematics. Special Issue "Inverse and Ill-Posed Problems"

2020 https://www.mdpi.com/journal/mathematics/special_issues/Inverse_Ill-posed_Problems

Microstructured materials : inverse problems

Janno, Jaan; Engelbrecht, Jüri 2011 https://www.ester.ee/record=b2720026*est

Microstructured solids and inverse problems

Engelbrecht, Jüri; Janno, Jaan Rendiconti del Seminario Matematico (Universita e Politecnico di Torino) 2007 / 2, p. 159-169
<https://www.sciencedirect.com/science/article/pii/S0165212505000491>

Modelling 2D wave motion in microstructured solids

Sertakov, Ivan; Engelbrecht, Jüri; Janno, Jaan Mechanics research communications 2014 / p. 42-49 : ill

Nondestructive characterization of materials with variable properties

Ravasio, Arvi; Janno, Jaan Acta mechanica 2001 / 3/4, p. 217-233

Nonlinear acoustic NDE-qualitative and quantitative effects

Engelbrecht, Jüri; Ravasio, Arvi; Janno, Jaan Multifunctional materials and structures : selected, peer reviewed papers from International Conference on Multifunctional Materials and Structures : July 28-31, 2008, Hong Kong, P.R.China 2008 / p. 17-20

Nonlinear equations with operators satisfying. Generalized Lipschitz conditions in scales

Janno, Jaan Zeitschrift für Analysis und ihre Anwendungen = Journal for analysis and its applications 1999 / 2, p. 287-295

On a generalized method of Lavrent'ev regularization

Janno, Jaan Inverse and Direct Problems - Conference held in Cortona, Italy, 2005 2005 / Abs. 9

On Lavrentiev regularization for ill-posed problems in Hilbert scales

Janno, Jaan; Tautenhahn, Ulrich Numerical functional analysis and optimization 2003 / 5/6, p. 531-555

On the theory of convolution equations of the third kind, II

Wolfersdorf, Lothar von; Janno, Jaan Journal of mathematical analysis and applications 2008 / p. 838-863

On Tikhonov regularization for identifying memory kernels in heat conduction and viscoelasticity

Janno, Jaan; Kiss, E.M.; Wolfersdorf, Lothar von Zeitschrift für angewandte Mathematik und Mechanik 2000 / 4, p. 259-272 : ill
<https://onlinelibrary.wiley.com/doi/abs/10.1002/%28SICI%291521-4001%28200004%2980%3A4%3C259%3A%3AAID-ZAMM259%3E3.0.CO%3B2-5>

A parabolic integro-differential identification problem in a barrelled smooth domain

Janno, Jaan; Lorenzi, Alfredo Zeitschrift für Analysis und ihre Anwendungen = Journal for analysis and its applications 2006 / p. 103-130 <https://ems.press/journals/zaa/articles/1069>

Paraboolsete integrodiferentsiaalvõrrandite positiivsusprintsiiip

Janno, Jaan Aastaraamat 2009 / Eesti Matemaatika Selts 2010 / lk. 35-43

Periodic and solitary waves in microstructured solids and related inverse problems

Janno, Jaan; Sertakov, Ivan 17th International conference on "Mathematical Modelling and Analysis" : June 6-9, 2012, Tallinn, Estonia : abstracts 2012 / p. 57

Periodic waves in microstructured solids and inverse problems

Sertakov, Ivan; Janno, Jaan Mathematical modelling and analysis 2012 / p. 599-617

https://www.researchgate.net/publication/261695332_Periodic_Waves_in_Microstructured_Solids_and_Inverse_Problems

A positivity principle for parabolic integro-differential equations and final overdetermination

Janno, Jaan Direct, Inverse and Control Problems for PDE's : DICOP : Cortona, 22-26.09.2008 : abstracts 2008 / p. 12

A positivity principle for parabolic integro-differential equations and inverse problems with final overdetermination
Janno, Jaan; Kasemets, Kairi Inverse problems and imaging 2009 / 1, p. 17-41

Pöördülesanded mittehomogeensete materjalide ja keskkondade omaduste määramiseks
Janno, Jaan Tallinna Tehnikaülikooli aastaraamat 2012 2013 / lk. 175-186

Pöördülesanne tuletise järgu ja allikafunktsiooni määramiseks murrulise tuletisega difusioonivõrrandis lõpphetkel tehtud mõõtmiste põhjal
Janno, Jaan; Kinash, Nataliia Aastaraamat 2017 / Eesti Matemaatika Selts 2018 / lk. 54-68 https://www.est er.ee/record=b1226018*est

Reconstruction of a source term in a parabolic integro-differential equation from final data
Kasemets, Kairi; Janno, Jaan Mathematical modelling and analysis 2011 / p. 199-219

Reconstruction of an order of derivative and a source term in a fractional diffusion equation from final measurements
Janno, Jaan; Kinash, Nataliia Inverse problems 2018 / art. 025007, 19 p. : ill <https://doi.org/10.1088/1361-6420/aaa0f0> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reconstruction of coefficients of higher order nonlinear wave equations by measuring solitary waves
Janno, Jaan; Šeletski, Anna Wave motion 2015 / p. 15-25 : ill <http://dx.doi.org/10.1016/j.wavemoti.2014.08.005>

Reconstruction of coefficients of higher order nonlinear wave equations by solitary waves
Janno, Jaan; Šeletski, Anna Mathematical modelling and analysis 2016 : abstracts 2016 / p. 33
http://www.est er.ee/record=b4573512*est

Reconstruction of kernels in parabolic and hyperbolic integro-differential equations from restricted Dirichlet-to-Neumann operator
Janno, Jaan Perspectives in Inverse Problems : conference held in Helsinki, 2004 : abstracts 2004 / p. 23

Reconstruction of space- and time-dependent sources in fractional wave and diffusion equations by means of overdetermination in a time subinterval
Kinash, Nataliia; Janno, Jaan 24th International Conference on Mathematical Modelling and Analysis : May 28-31, 2019, Tallinn, Estonia : abstracts 2019 / p. 37

Recovering a time- and space-dependent kernel in a hyperbolic integro-differential equation from a restricted Dirichlet-to-Neumann operator [Electronic resource]
Janno, Jaan Electronic journal of differential equations 2004 / 67, p. 1-16. - URL <http://ejde.math.txstate.edu>

Recovering degenerate kernels in hyperbolic integro-differential equations
Janno, Jaan; Lorenzi, Alfredo Zeitschrift für Analysis und ihre Anwendungen = Journal for analysis and its applications 2002 / 2, p. 399-430

Recovering memory kernels in heat flow : inverse problems for non-homogeneous degenerate memory kernels
Pais, Enno; Janno, Jaan 2008

Recovering memory kernels in parabolic transmission problems
Janno, Jaan; Lorenzi, Alfredo Journal of inverse and ill-posed problems 2008 / 2, p. 239-265

Recovering memory kernels in parabolic transmission problems in infinite time intervals : the non-accessible case
Janno, Jaan; Lorenzi, Alfredo Journal of inverse and ill-posed problems 2010 / 4, p. 433-465

Scale-type estimates for a generalized method of Lavrent'ev regularization
Janno, Jaan; Tautenhahn, Ulrich Journal of inverse and ill-posed problems 2003 / 2, p. 161-190

17. konverents "Mathematical Modelling and Analysis"
Janno, Jaan Aastaraamat 2012 / Eesti Matemaatika Selts 2014 / lk. 141-142

Solitary waves in nonlinear microstructured materials
Janno, Jaan; Engelbrecht, Jüri Journal of physics A : mathematical and general 2005 / p. 5159-5172 : ill

Süvaõpe TTÜs : [TTÜ üksustes läbiviidud küsitluse tulemused : prof. Jaan Janno matemaatika erikursuse annotatsioonidega]
Tammemäe, Kalle; Janno, Jaan Mente et Manu 2012 / lk. 2, 5 : ill. https://www.est er.ee/record=b1242496*est

Teaduspreemia täppisteaduste alal uurimuste tsükli "Pöördülesanded mittehomogeensete materjalide ja keskkondade omaduste määramiseks" eest

Janno, Jaan Eesti Vabariigi teaduspreemiad 2012 2012 / lk. 40-58 : portr

24th International Conference on Mathematical Modelling and Analysis : May 28-31, 2019, Tallinn, Estonia : abstracts

2019 https://www.ester.ee/record=b5230275*est

Uniqueness for an inverse problem for a semilinear time-fractional diffusion equation

Janno, Jaan; Kasemets, Kairi Inverse problems and imaging 2017 / p. 125-149 <http://dx.doi.org/10.3934/ipi.2017007>

Uued inimesed ja positsioonid

Hints, Olle; Janno, Jaan; Uusen, Kaire; Oll, Sulev; Põdersalu, Heiko; Veinthal, Renno; Sooväli-Sepping, Helen; Chiesa, Matteo; Trahov, Tea Mente et Manu 2021 / lk. 42-47 : fot https://www.ester.ee/record=b1242496*est

Variatsioonmeetodid

Janno, Jaan 2001 https://www.ester.ee/record=b1516931*est

Waves in microstructured solids : inverse problems

Janno, Jaan; Engelbrecht, Jüri Wave motion 2005 / p. 1-11

Weak inverse problems for parabolic integro-differential equations containing two kernels

Kasemets, Kairi; Janno, Jaan Electronic journal of differential equations 2014 / p. 1-19

Üksiklained mittelineaarses mikrostruktuuriga tahkises ja nendega seotud pöördülesanne

Janno, Jaan; Engelbrecht, Jüri Aastaraamat 2005 / Eesti Matemaatika Selts 2006 / lk. 12-29

XII Eesti matemaatika päevad Türisalus

Janno, Jaan Aastaraamat 2010 / Eesti Matemaatika Selts 2012 / lk. 111-113 : ill