

### **Detecting anisotropic inclusions through EIT**

Cristina, Jan; Päivärinta, Lassi Juhani Archive for rational mechanics and analysis 2017 / p. 1139-1160

<https://doi.org/10.1007/s00205-017-1151-y> [Journal metric at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Detecting anisotropic inclusions through EIT [Online resource]**

Cristina, Jan; Päivärinta, Lassi Juhani arXiv.org 2016 / p. 1-18 <https://arxiv.org/abs/1511.01233v2>

### **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](#)

### **Fractional Brownian motion and asymptotic Bayesian estimation [Online resource]**

Päivärinta, Lassi Juhani; Piironen, Petteri arXiv.org 2016 / p. 1-55 : ill <https://arxiv.org/abs/1606.07576v1>

### **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>

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### **Inverse acoustic scattering problem in half-space with anisotropic random impedance [Online resource]**

Helin, Tapio; Lassas, Matti; Päivärinta, Lassi Juhani arXiv.org 2014 / p. 1-26 <https://arxiv.org/abs/1407.2481v2>

### **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](#)

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### **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.estee.ee/record=b4573512\\*est](http://www.estee.ee/record=b4573512*est)

### **Inverse problem to determine simultaneously several scalar parameters and a time-dependent source term in a superdiffusion equation involving a multiterm fractional Laplacian**

Gerges, Hany; Janno, Jaan Fractional calculus and applied analysis 2025 / p. 2395-2420 <https://doi.org/10.1007/s13540-025-00437-x>

### **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 <https://doi.org/10.1155/2013/297104> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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### **The inverse Robin boundary value problem in a half-space**

Päivärinta, Lassi Juhani; Zubeldia, Miren Applicable analysis 2015 / p. 2565-2587

### **Lugeja küsib: miks talvel laevad (näiliselt) õhku tõusevad? [Võrguväljaanne]**

Kalda, Jaan novaator.err.ee 2021 "[Lugeja küsib: miks talvel laevad \(näiliselt\) õhku tõusevad?](#)"

### **A mathematical model for abrasive erosion wear in composite Fe-based matrix with WC-Co reinforcement**

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

2020 [https://www.mdpi.com/journal/mathematics/special\\_issues/Inverse\\_Ill-posed\\_Problems](https://www.mdpi.com/journal/mathematics/special_issues/Inverse_Ill-posed_Problems)

### **On-line corrosion monitoring of plate structures based on guided wave tomography using piezoelectric sensors**

Rao, Jing; **Ratassepp, Madis**; Lisevych, Danylo; Caffoor, Mahadhir Hamzah; Fan, Zheng Sensors 2017 / art. 2882, p. 1-14 : ill <https://doi.org/10.3390/s17122882> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Positive-energy D-bar method for acoustic tomography : a computational study**

de Hoop, M. V.; Lassas, Matti; Santacesaria, M.; Siltanen, Samuli; **Tamminen, Janne Pertti Olavi** Inverse problems 2016 / art, 025003, p. 1-35 : ill <https://doi.org/10.1088/0266-5611/32/2/025003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Reconstruction of an orthotropic thermal conductivity from non-local heat flux measurements**

Huntul, M.J.; Hussein, M.S.; Lesnic, D.; Ivancho, M.I.; **Kinash, Nataliia** International journal of Mathematical modelling and numerical optimisation 2020 / p. 102-122 <https://doi.org/10.1504/IJMMNO.2020.104327> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Reconstruction of coefficients of higher order nonlinear wave equations by measuring solitary waves**

**Janno, Jaan; Šeletski, Anna** Wave motion 2015 / p. 15-25 : ill <https://doi.org/10.1016/j.wavemoti.2014.08.005> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Reconstruction of coefficients of higher order nonlinear wave equations by solitary waves**

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**Review of electrical machine diagnostic methods applicability in the perspective of Industry 4.0**

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**Strictly convex corners scatter**

**Päivärinta, Lassi Juhani**; Salo, Mikko; Vesalainen, Esa V. Revista matematica iberoamericana 2017 / p. 1369-1396 <https://doi.org/10.4171/rmi/975> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Strictly convex corners scatter [Online resource]**

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**The D-bar method for diffuse optical tomography : a computational study**

**Tamminen, Janne Pertti Olavi**; Tarvainen, T.; Siltanen, Samuli Experimental mathematics 2017 / p. 225-240 : ill <https://doi.org/10.1080/10586458.2016.1157775> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

**Janno, Jaan; Kasemets, Kairi** Inverse problems and imaging 2017 / p. 125-149 <https://doi.org/10.3934/ipi.2017007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)