## **PEER-REVIEWED PUBLICATIONS**

## BOOKS

1. A.B.Bakushinsky, M.Yu.Kokurin, A.B.Smirnova, *Iterative Methods for Ill-Posed Problems. An Introduction*, *Ill-Posed Problems Series 54*, *De Gruyter, Germany*, 138 pp, 2010.

## PAPERS

- 1. A.B. Smirnova, B. Pidgeon, R. Luo, On Stable Parameter Estimation and Short-term Forecasting with Quantified Uncertainty for COVID-19 Transmission, Journal of Inverse and Ill-Posed Problems, 30, N6, 823-844. <u>https://doi.org/10.1515/jiip-2021-0037</u> (2022).
- 2. A. Smirnova, B. Pidgeon, G. Chowell, Y. Zhao, *The Doubling Time Analysis for Modified Infectious Disease Richards Model with Applications to COVID-19 Pandemic*, *Mathematical Biosciences and Engineering*, 19, N3, 3242-3268. DOI: <u>10.3934/mbe.2022150</u> (2022).
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- 2. A. Smirnova, A.B. Bakushinsky, On Iteratively Regularized Predictor-Corrector Algorithm for Parameter Identification, Inverse Problems, 36 124008 (2020).
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- 7. A. Smirnova, On TSVD Regularization for a Broyden-type Algorithm, Journal of Inverse and Ill-Posed Problems, 26, N4, 551–564, ISSN (Online) 1569-3945, ISSN (Print) 0928-0219, DOI: <u>https://doi.org/10.1515/jiip-2017-0086</u> (2018).
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- 32. A.B. Bakushinsky, A.B. Smirnova, M.A. Skinner, Iteratively Regularized Gradient Method with a Posteriori Stopping Rule for 2D Inverse Gravimetry Problem. Journal of Integral Equations and Applications, 17, N4, 375-390 (2005).
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## **PROCEEDINGS (REFEREED)**

- A.B.Smirnova, A.B. Bakushinsky, L. DeCamp, On stable parameter estimation in epidemiology using abstract discrepancy principle, 5pp, *Proceedings of IPTA 2014 Conference, Inverse Problems from Theory to Application, August (2014), Bristol, UK.*
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- S.J.Coorpender, D.Finkel, J.Kyzar, R.Sims, A.B.Smirnova, M.Tawhid, C.E. Bouton, R.C.Smith, *Modeling and Optimization Issues Concerning a Circular Piezoelectric Actuator Design.* Proceedings of the International Mechanical Engineering Congress / Exposition, 14-19, November (1999), Nashville, TN.