Aleksandr V. Grigorev

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Personal

Born on July 27, 1985

Russian Federation Citizen

English: intermediate

Skills

Programming languages: C/C ++, Python

Libraries: MPI (Parallelization), FEniCS (FEM), PETSc (Algebra), VTK (Visualisation)

Applications: NETGEN (Mesh generation), GMSH (Mesh generation), Paraview (Visualisation)

Operating systems: Windows OS, Ubuntu (Linux)

Education

M.Sc. in applied mathematics, North-Eastern Federal University, 2009.

Ph.D. in applied mathematics, North-Eastern Federal University, 2013. Subject: Numerical modeling filtration in fractured-porous media based on double porosity model.

Employment

Senior Lecturer, North-Eastern Federal University, Yakutsk, 2009–2010

Technical Support Engineer, North-Eastern Federal University, Yakutsk, 2010–2011

Docent-Researcher, North-Eastern Federal University, 2011–2015

Researcher, Institute of Computational Mathematics and Mathematical Geophysics of the Siberian Branch of the RAS, 2015–2018

Docent-Researcher, North-Eastern Federal University, 2018-present

Research interests

Numerical methods

Parallel algorithms for problems of mathematical physics

Multiphysics problems

Multicontinuum models

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Applied modeling

Fluid flow in fractured-porous media

Unsaturated filtration in soils

Oil gas production

Medicine problems

Publications

Books

1. M.V. Vasil'eva, A.V. Grigoriev, P.E. Zakharov. Parallel Programming with Libraries. Yakutsk, NEFU, 2011, in Russian.

- 2. I.S. Eremeev, A.V. Grigoriev, M.I. Alekseeva, V.A. Ptytsin. Parallel Programming usind CUDA technology. Yakutsk, NEFU, 2011, in Russian.
- 3. N.M. Afanasyeva, V.S. Borisov, A.G. Churbanov, A.V. Grigoriev, A.E. Kolesov, P.A. Popov, I.K. Sirditov, P.N. Vabishchevich, M.V. Vasilieva, P.E. Zakharov. Computational Technologies. A First Course. Berlin, Boston: De Gruyter, 2014.
- 4. N.M. Afanasyeva, M.Yu. Antonov, V.S. Borisov, A.V. Grigoriev, A.E. Kolesov, P.A. Popov, I.K. Sirditov, P.N. Vabishchevich, M.V. Vasilieva, P.E. Zakharov. Computational Technologies. Advanced Topics. Berlin, Boston: De Gruyter, 2014.

Selected articles

- 1. Antonov M.Yu., Grigorev A.V. and Kolesov A.E. Numerical Modeling of Fluid Flow in Liver Lobule Using Double Porosity Model. International Conference on Numerical Analysis and Its Applications. Springer, Cham, 2016.
- 2. Gaspar F., Grigoriev A.V. and Vabishchevich P.N. EXPLICIT-IMPLICIT SPLITTING SCHEMES FOR SOME SYSTEMS OF EVOLUTIONARY EQUATIONS. International Journal of Numerical Analysis & Modeling 11.2, 2014.
- 3. Vabishchevich P.N. and Grigoriev A.V. Numerical modeling of fluid flow in anisotropic fractured porous media. Numerical Analysis and Applications 9.1: 45-56, 2016.
- 4. Vabishchevich P.N. and Grigorâ AZev A.V. Splitting schemes for pseudoparabolic equations. Differential Equations 49.7: 807-814, 2013.
- 5. Voronin K.V., Grigoriev A.V. and Laevsky Yu.M. On an approach to the modeling of oil wells. Numerical Analysis and Applications 10.2: 120-128, 2017.
- 6. Laevsky Y.M., Vasilyeva M.V., Grigorev A.V. and Kalinkin A.A Mathematical Models of Fluid Flow in Fractured-Porous Media. 7th EAGE Saint Petersburg International Conference and Exhibition. 2016.
- 7. Grigorev A.V. Numerical modeling filtration in fractured-porous media. Matzametki SVFU 20.2, 237-245, 2013.

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