

Списък с публикации на гл. ас. д-р Ирина Георгиева
за участие в конкурс за доцент

Публикации в международни списания с Импакт фактор (IF):

1. I. Georgieva, C. Hofreither, *On best uniform approximation by low-rank matrices*, Linear Algebra and its Applications, 2017, Vol. 518, 159-176, <https://doi.org/10.1016/j.laa.2016.12.034>, **IF 0.973**.
2. I. Georgieva, C. Hofreither, *An algorithm for low-rank approximation of bivariate functions using splines*, Journal of Computational and Applied Mathematics, 2017, Vol. 310, 80-91, <https://doi.org/10.1016/j.cam.2016.03.023>, **IF 1.357**.
3. I. Georgieva, C. Hofreither, *New results on regularity and errors of harmonic interpolation using Radon projections*, Journal of Computational and Applied Mathematics, 2016, Vol. 293, 73-81, <https://doi.org/10.1016/j.cam.2015.02.056>, **IF 1.357**.
4. I. Georgieva, C. Hofreither, *Interpolating solutions of the Poisson equation in the disk based on Radon projections*, Journal of Mathematical Analysis and Applications, 2015, Vol. 423(1), 305-317, <https://doi.org/10.1016/j.jmaa.2014.09.031>, **IF 1.064**.
5. I. Georgieva, C. Hofreither, *Cubature rules for harmonic functions based on Radon projections*, Calcolo, Springer Milan, 2015, Vol.52(2), 153-166, <https://doi.org/10.1007/s10092-014-0111-2>, **IF 0.816**.
6. I. Georgieva, C. Hofreither, *Interpolation of harmonic functions based on Radon projections*, Numerische Mathematik, 2014, Vol.27(3), 423-445, <http://dx.doi.org/10.1007/s00211-013-0592-y>, **IF 1.608**.
7. I. Georgieva, C. Hofreither, C. Koutschan, V. Pillwein, and T. Thanatipanonda, *Harmonic interpolation based on Radon projections along the sides of regular polygons*, Central European Journal of Mathematics, 2013, Vol. 11(4), 609-620, <http://dx.doi.org/10.2478/s11533-012-0160-1>, **IF 0.519**.
8. A. Karamanov, I. Georgieva, R. Pascova, I. Avramov, *Pore formation in glass-ceramics: Influence of the stress energy distribution*, Journal of Non-Crystalline Solids, Elsevier, 2010, Vol. 356(2), 117-119, <https://doi.org/10.1016/j.jnoncrysol.2009.10.004>, **IF 1.483**.

9. I. Georgieva, R. Uluchev, *Smoothing of Radon projections type of data by bivariate polynomials*, Journal of Computational and Applied Mathematics, 2008, Vol. 215, 167-181, <https://doi.org/10.1016/j.cam.2007.04.002>, **IF 1.048**.

Публикации в реферирани международни поредици:

10. I. Georgieva, C. Hofreither, R. Uluchev, *Least Squares Fitting of Harmonic Functions Based on Radon Projections*, In: Floater M., Lyche T., Mazure M.L., Mørken K., Schumaker L.L. (eds) Mathematical Methods for Curves and Surfaces. MMCS 2012. Lecture Notes in Computer Science, Vol. 8177, 158-171, Springer, Berlin, Heidelberg, https://doi.org/10.1007/978-3-642-54382-1_9, **SJR 0.332**.
11. I. Georgieva, C. Hofreither, *An algebraic method for reconstruction of harmonic functions via Radon projections*, AIP-Conference Proceedings, 2012, Vol. 1487(1), 112-119, <http://dx.doi.org/10.1063/1.4758948>, **SJR 0.16**.
12. I. Georgieva, R. Uluchev, *Surface reconstruction and Lagrange basis polynomials*, In: Large-Scale Scientific Computing. LSSC 2007, Lecture Notes in Computer Sciences, 2008, Springer-Verlag, Vol. 4818, 670-678, https://doi.org/10.1007/978-3-540-78827-0_77, **SJR 0.281**.

Публикации в реферирани трудове на международни конференции:

13. I. Georgieva, C. Hofreither, *Cubature rules for harmonic functions on the disk using line integrals over two sets of equispaced chords*, In "Constructive Theory of Functions, Sozopol 2013, Dedicated to B. Sendov and V. Popov", 83-95, (K. Ivanov, G. Nikolov and R. Uluchev, Eds.), Prof. Marin Drinov Academic Publishing House, Sofia, 2014.
14. I. Georgieva, C. Hofreither, and R. Uluchev, *Interpolation of mixed type data by bivariate polynomials*. In "Constructive Theory of Functions, Sozopol 2010: In memory of Borislav Bojanov", (G. Nikolov and R. Uluchev, Eds.), 93-107. Prof. Marin Drinov Academic Publishing House, Sofia, 2012.

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