

Пълен списък с публикации на гл. ас. д-р Ирина Георгиева

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. Á. Fekete, I. Georgieva, F. Móricz, *Characterizations of the convergence of harmonic averages of double numerical sequences*, Mathematical Inequalities & Applications, 2011, Vol. 14(3), 555-573, <https://doi.org/10.7153/mia-14-48>, **IF 0.558**.

9. 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**.
10. 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:

11. 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**.
12. 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**.
13. I. Georgieva, R. Uluchev, *On interpolation in the unit disk based on both Radon projections and function values*, In: Lirkov I., Margenov S., Waśniewski J. (eds) Large-Scale Scientific Computing. LSSC 2008. Lecture Notes in Computer Science, 2010, Vol. 5910, 747-755, Springer, Berlin, Heidelberg, https://doi.org/10.1007/978-3-642-12535-5_89, **SJR 0.314**.
14. 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 списания без импакт фактор:

15. B. Bojanov, I. Georgieva, *Interpolation by bivariate polynomials based on Radon projections*, Studia Mathematica, 2004, Vol. 162(2), 141-160, ISSN: 0039-3223, <http://doi.org/10.4064/sm162-2-3>.
16. I. Georgieva, *Bivariate interpolation with (m, n) -splines*, Annuaire de L' Universite de Sofia "St. Kliment Ohridski", 2004, Vol. 95, 133-152, available at <https://www.fmi.uni-sofia.bg/en/research-1/annual/tomes/tome95/bivariate-interpolation-by-it-m-it-n-splines>.

17. I. Georgieva, *Reconstruction of functions from their Radon projections*, Mathematica Balkanica (New Series), 2003, Vol. 17, Fasc. 3-4, 336-355.

Публикации в реферирани трудове на международни конференции:

18. 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.
19. 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.
20. I. Georgieva, S. Ismail, *On recovering of a bivariate polynomial from its Radon projections*. In "Constructive Theory of Functions, Varna 2005" (B. Bojanov, Ed.), 127-134, Marin Drinov Academic Publishing House, Sofia, 2006.

Други публикации:

21. I. Georgieva, C. Hofreither, R. Uluchev, *Approximations using Radon projection data in the unit disc*, In: "Recent Approaches to Numerical Analysis: Theory, Methods and Applications" (G. Akrivis, et al., Eds.), 116-122, Proceedings of NumAN2014 Conference, Sept. 2-5, Chania, Greece, 2014, ISBN: 978-960-8475-21-2.
22. I. Georgieva, C. Hofreither, T. Ilieva, T. Ivanov, S. Nakov, *Problems and final reports: Laboratory calibration of a MEMS accelerometer sensor*, European Study Group with Industry'95 (ESGI'95), September 23 - 27, 2013, Sofia, Bulgaria, Published by Demetra Ltd., 2013, ISBN 978-954-9526-84-4., 61-85 pages.
23. I. Georgieva, C. Hofreither, *Some computational aspects of harmonic interpolation via Radon Projections*. In "Proceedings of BG SIAM'11", Published by Demetra Ltd., 2012, ISSN 1314-7161, 44-49.

Дисертация: „Многомерни апроксимации“, научен ръководител акад. Борислав Боянов, 2005 г.

/Ирина Георгиева/