

Curriculum Vitae

Ivan Ivanov Gadjev

Address

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Education

- **Ph.D. in Mathematics**, Bulgarian Academy of Science, Bulgaria, 2015
Thesis: “Characterization of the Approximation of Functions by Baskakov and Mayer-Konig and Zeller Operators”
- **M.Sc. in Mathematics**, Sofia University St. Kliment Ohridski, Bulgaria, 1987
Thesis: “Conditional Convergence of Series in Frechet’s Spaces”

Research Interests

Approximation Theory, Mathematical Analysis

Professional Experience

- **Associate Professor**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2018-present
- **Assistant Professor**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2016-2018
- **Assistant Professor**, Department of Mathematics and Informatics, University of Transport, Sofia, Bulgaria, 1988-1999, 2012-2015

Teaching Experience

- **Associate Professor**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2018-present
Courses: Calculus, Mathematical Analysis
- **Assistant Professor**, Faculty of Mathematics and Informatics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria, 2016-2018
Courses: Calculus, Mathematical Analysis
- **Assistant Professor**, Department of Mathematics and Informatics, University of Transport, Sofia, Bulgaria, 1988-1999, 2012-2015
Courses: : Linear Algebra and Analytic Geometry, Univariate Calculus, Multivariate Calculus, Special Course (elements of Probabilities, Complex Analysis, Differential Equations, Fourier Series), Mathematical Modelling (Optimizations, Game Theory)

List of Publications

1. D. K. Dimitrov, I. Gadjev, G. Nikolov and R. Uluchev, Hardy's inequalities in finite dimensional Hilbert spaces, *Proceedings of the AMS* **149** (2021), no. 6, 2515-2529, 2021.
2. Ivan Gadjev and Parvan E. Parvanov, Weighted approximation of functions by the Szász–Mirakjan–Kantorovich operator, *Results in Mathematics* **76**, 158 (2021).
3. I. Gadjev and R. Uluchev, Strong converse result for weighted approximation by Baskakov–Kantorovich operator, in “Constructive Theory of Functions, Sozopol 2019” (B. Draganov, K. Ivanov, G. Nikolov and R. Uluchev, Eds.), pp. 53-71, Prof. Marin Drinov Publishing House of BAS, Sofia, 2020.
4. Ivan Gadjev, A direct theorem for MKZ-Kantorovich operator, *Analysis Mathematica* **45** (2019), 25-38.
5. Borislav R. Draganov and Ivan Gadjev, Approximation of functions by the Szász–Mirakjan–Kantorovich operator, *Numerical Functional Analysis and Optimization* **40** (2019), issue 7, 803-824.
6. Borislav R. Draganov and Ivan Gadjev, Direct and converse Voronovskaya estimates for the Bernstein operator, *Results in Mathematics* **73**, 11 (2018).
7. I. Gadjev, P. Parvanov and R. Uluchev, Weighted approximation by Kantorovich type modification of Meyer–König and Zeller operator, *Ann. Sofia Univ. Fac. Math. Inf.* **105** (2018), 75-95.
8. Ivan Gadjev, Approximation of functions by some exponential-type operators, in “Constructive Theory of Functions, Sozopol 2016” (K. Ivanov, G. Nikolov and R. Uluchev, Eds.), pp. 143-158, Prof. Marin Drinov Academic Publishing House, Sofia, 2018.
9. Ivan Gadjev, About characterization of one K-functional, *Journal of Mathematical Analysis and Applications* **450** (2017), no. 2, 1076-1082.
10. Ivan Gadjev and Parvan E. Parvanov, Weighted approximation in uniform norm by Meyer–König and Zeller operators, *Annual of Sofia University "St. Kliment Ohridski", Faculty of Mathematics and Informatics* **104** (2017), 77-87.
11. Ivan Gadjev and Parvan E. Parvanov, Weighted approximation of functions in $L_\infty[0, \infty)$, *Mediterranean Journal of Mathematics* **14** (2017), no. 6, 1-14.
12. Ivan Gadjev, Approximation of functions by Baskakov–Kantorovich operator, *Results in Mathematics* **70** (2016), 385-400.
13. Ivan Gadjev, Strong converse result for uniform approximation by Meyer–König and Zeller operator, *J. Math. Anal. Appl.* **428**, (2015), no. 1, 32-42.
14. Ivan Gadjev, Weighted approximation by Baskakov operators, *Mathematical Inequalities & Applications* **18** (2015), no. 4, 1443-1461.
15. Иван Гаджев, Приближаване на функции с оператора на Майер–Кьониг и Целер, *МТС АЖ* **13** (2015), no. 3/2, 51-54.
16. Ivan Gadjev, Weighted approximation by Meyer–König and Zeller operators, IMI, preprint, 2015.
17. Ivan Gadjev, Strong converse result for Baskakov operator, *Serdica Math. Journal* **40** (2014), no. 3-4, 273-318.

Presentations and Conference Contributions

1. Weighted approximation of functions in L_p -norm by Baskakov-Kantorovich operator, AnMath 2019, First Analysis Mathematica International Conference August 12-17, 2019, Budapest (HUNGARY)
2. Weighted approximation of functions in L_p -norm by some Kantorovich operators, International Conference "Constructive Theory of Functions" June 02-08, 2019, Sozopol (BULGARIA)
3. Weighted approximation of functions in L_p -norm by some Kantorovich operators, IX Jaen Conference on Approximation July 08-13, 2018, Ubeda (SPAIN)
4. Approximation of functions in L_p -norm by Kantorovich modification of some classical operators, International Conference "Constructive Theory of Functions" June 11-17, 2016, Sozopol (BULGARIA)

Scientific Projects

1. Contemporary Methods in Constructive Theory of Functions, 2016-2019
Grant DN 02/14, supported by the Bulgarian National Science Fund, Ministry of Education and Science.