

Lista de lucrări (List of papers)

Nume/Name: Adrian Holhoş

Data/Date: 7 aprilie 2026/ April 7, 2026

Lista completă cu acces la articole în ordine cronologică/Full list in chronological order with access to articles: <https://users.utcluj.ro/~holhosadi/articles.html>

A. Lista celor mai importante 10 lucrări (List of the most important 10 articles)

1. **A. Holhoş**, D. Roşca, Area preserving maps and volume preserving maps between a class of polyhedrons and a sphere, *Adv. Comput. Math.*, vol. 43, nr. 4, 2017, 677-697.
2. **A. Holhoş**, D. Roşca, An octahedral equal area partition of the sphere and near optimal configurations of points, *Comput. Math. Appl.*, vol. 67, nr. 5, 2014, 1092-1107.
3. **A. Holhoş**, Exponential-Type Operators Generated by Power Functions, *Bulletin of the Iranian Mathematical Society*, vol. 51, 2025, 64, 13 pp.
4. **A. Holhoş**, Voronovskaya-type Results for Positive Linear Operators of Exponential Type and their Derivatives, *Bull. Malays. Math. Sci. Soc.*, vol. 45, 2022, 1839-1861.
5. **A. Holhoş**, A Voronovskaya-type theorem in simultaneous approximation, *Period. Math. Hungar.*, vol. 85, 2022, 280-291.
6. **A. Holhoş**, Two Area Preserving Maps from the Square to the p-Ball, *Math. Model. Anal.*, vol. 22, nr. 2, 2017, 157-166.
7. **A. Holhoş**, Weighted Approximation of Functions by Meyer-Konig and Zeller Operators of Max-Product Type, *Numerical Functional Analysis and Optimization*, vol. 39, nr. 6, 2018, 689-703.
8. **A. Holhoş**, Uniform approximation of functions by Meyer-Konig and Zeller operators, *J. Math. Anal. Appl.*, vol. 393, nr. 1, 2012, 33-37.
9. **A. Holhoş**, Weighted approximation of functions by Favard operators of max-product type, *Period. Math. Hungar.*, vol. 77, nr. 2, 2018, 340-346.
10. V. Gupta, **A. Holhoş**, Approximation with Arbitrary Order by Baskakov-Type Operators Preserving Exponential Functions, *Bulletin of the Malaysian Mathematical Sciences Society*, vol. 44, 2021, 2567-2576

B. Teza de doctorat (PhD Thesis)

Titlu/ Title: Contribuții la aproximarea funcțiilor (Contributions to the approximation of functions)

Conducător științific/Supervisor: Prof. dr. Ioan Gavrea

Universitatea/University: Babeş-Bolyai din Cluj-Napoca

Susținere publică/Defended on: 15.07.2010

C. Article ISI (Articles published in ISI Journals)

1. **A. Holhoş**, Exponential-Type Operators Generated by Power Functions, *Bulletin of the Iranian Mathematical Society*, vol. 51, 2025, 64, 13 pp.
2. **A. Holhoş**, Approximation of Real Functions by a Generalization of Ismail-May Operator, *Mathematics*, vol. 10, nr. 10, 2022, 1650, 13 pp.
3. **A. Holhoş**, Voronovskaya-type Results for Positive Linear Operators of Exponential Type and their Derivatives, *Bull. Malays. Math. Sci. Soc.*, vol. 45, 2022, 1839-1861.
4. **A. Holhoş**, A Voronovskaya-type theorem in simultaneous approximation, *Period. Math. Hungar.*, vol. 85, 2022, 280-291.
5. **A. Holhoş**, On the Approximation by Balázs–Szabados Operators, *Mathematics*, vol. 9, nr. 14, 2021, 1588, 12 pp.
6. V. Gupta, **A. Holhoş**, Approximation with Arbitrary Order by Baskakov-Type Operators Preserving Exponential Functions, *Bulletin of the Malaysian Mathematical Sciences Society*, vol. 44, 2021, 2567-2576.
7. **A. Holhoş**, D. Roşca, Orthonormal Wavelet Bases on The 3D Ball Via Volume Preserving Map from The Regular Octahedron, *Mathematics*, vol. 8, nr. 6, 2020, 994, 15 pp.
8. **A. Holhoş**, D. Roşca, Volume Preserving Maps Between p-Balls, *Symmetry*, vol. 11, nr. 11, 2019, 12 pp.
9. **A. Holhoş**, Approximation of functions by some exponential operators of max-product type, *Studia Scientiarum Mathematicarum Hungarica*, vol. 56, nr. 1, 2019, 94-102.
10. **A. Holhoş**, A Voronovskaya-Type Theorem for the First Derivatives of Positive Linear Operators, *Results Math.* 2019, 74:76.
11. **A. Holhoş** A sequence of positive linear operators related to powered Baskakov basis, *Carpathian J. Math.*, vol. 35, nr. 1, 2019, 51-58.
12. **A. Holhoş**, Voronovskaya theorem for a sequence of positive linear operators related to squared Bernstein polynomials, *Positivity*, vol. 23, nr. 3, 2019, 571-580.
13. **A. Holhoş** Approximation of Functions by Favard-Szasz-Mirakyan Operators of Max-Product Type in Weighted Spaces, *Filomat*, vol. 32, nr. 7, 2018, 2567-2576.
14. **A. Holhoş**, Weighted approximation of functions by Favard operators of max-product type, *Period. Math. Hungar.*, vol. 77, nr. 2, 2018, 340-346.
15. **A. Holhoş**, D. Roşca, Uniform refinable 3D grids of regular convex polyhedrons and balls, *Acta Math. Hungar.*, vol. 156, nr. 1, 2018, 182-193.
16. **A. Holhoş**, Quantitative Estimates of Voronovskaya Type in Weighted Spaces, *Results Math.* 2018, 73:53.
17. **A. Holhoş**, Weighted Approximation of Functions by Meyer-Konig and Zeller Operators of Max-Product Type, *Numerical Functional Analysis and Optimization*, vol. 39, nr. 6, 2018, 689-703.
18. **A. Holhoş**, Two Area Preserving Maps from the Square to the p-Ball, *Math. Model. Anal.*, vol. 22, nr. 2, 2017, 157-166.

19. **A. Holhoş**, D. Roşca, Area preserving maps and volume preserving maps between a class of polyhedrons and a sphere, *Adv. Comput. Math.*, vol. 43, nr. 4, 2017, 677-697.
20. **A. Holhoş**, Uniform approximation of functions by Bernstein-Stancu operators, *Carpathian J. Math.*, vol. 31, nr. 2, 2015, 205-212.
21. **A. Holhoş**, D. Roşca, An octahedral equal area partition of the sphere and near optimal configurations of points, *Comput. Math. Appl.*, vol. 67, nr. 5, 2014, 1092-1107.
22. **A. Holhoş**, Uniform approximation of functions by Meyer-Konig and Zeller operators, *J. Math. Anal. Appl.*, vol. 393, nr. 1, 2012, 33-37.
23. **A. Holhoş**, An inequality for a linear discrete operator involving convex functions, *J. Math. Inequal.*, vol. 3, nr. 3, 2009, 383-393.

D. Article BDI (Articles published in Journals indexed in International Databases)

1. E. Acar, **A. Holhoş**, S.K. Serenbay, Polynomial weighted approximation by Szász-Mirakyan operators of max-product type, *Kragujevac Journal of Mathematics*, vol. 49, nr. 3, 2025, 365-373.
2. **A. Holhoş**, The Holder continuity of $x^a \sin(1/x)$, *Gazeta Matematică Seria A*, vol. XXXVIII (CXVII), nr. 3-4, 2020, 13-18.
3. **A. Holhoş**, King-type operators related to squared Szász-Mirakyan basis, *Stud. Univ. Babeş-Bolyai Math.*, vol. 65, nr. 2, 2020, 279-290.
4. **A. Holhoş**, The Product of Two Functions Using Positive Linear Operators, *Constructive Mathematical Analysis*, vol. 3, nr. 2, 2020, 64-74.
5. **A. Holhoş**, Uniform approximation of functions by Bernstein-type operators, *Ann. Tiberiu Popoviciu Semin. Funct. Equ. Approx. Convexity*, vol. 11, 2013, 53-57.
6. **A. Holhoş**, The Rate of convergence of some Riemann-Stieltjes sums, *Automat. Comput. Appl. Math.*, vol. 22, nr. 1, 2013, 137-145.
7. **A. Holhoş**, An Integral Formula of Green's Type, *Automat. Comput. Appl. Math.*, vol. 21, nr. 1, 2012, 69-75.
8. **A. Holhoş**, Uniform weighted approximation by positive linear operators, *Stud. Univ. Babeş-Bolyai Math.*, vol. 56, nr. 3, 2011, 135-146.
9. **A. Holhoş**, Uniform approximation in weighted spaces using some positive linear operators, *Stud. Univ. Babeş-Bolyai Math.*, vol. 56, nr. 2, 2011, 413-422.
10. I. Gavrea, **A. Holhoş**, The Rate of Approximation of Real Functions by Rational Functions with Prescribed Numerator Degree, *Automat. Comput. Appl. Math.*, vol. 19, nr. 2, 2010, 273-280.
11. **A. Holhoş**, The rate of approximation of functions in an infinite interval by positive linear operators, *Stud. Univ. "Babeş-Bolyai" Math.*, vol. 55, nr. 2, 2010, 133-142.

12. **A. Holhoş**, Uniform Approximation by Positive Linear Operators on Noncompact Intervals, *Automat. Comput. Appl. Math.*, vol. 18, nr. 1, 2009, 121-131.
13. **A. Holhoş**, The Rate of Convergence of Positive Linear Operators in Weighted Spaces, *Automat. Comput. Appl. Math.*, vol. 17, nr. 2, 2008, 239-246.
14. **A. Holhoş**, Quantitative estimates for positive linear operators in weighted spaces, *Gen. Math.*, vol. 16, nr. 4, 2008, 99-110.

E. Articole publicate în Proceedingurile unor Conferințe Internaționale (Articles published in Proceedings of International Conferences)

1. A. Ceclan, **A. Holhoş**, D. D. Micu, S. Spinean, L. Czumbil, A. Andreotti, Lightning return stroke current reconstruction on vertical and variable channel shape, 2014 International Conference on Lightning Protection (ICLP), 11-18 Octombrie 2014, Shanghai, China, 2014, 1370-1375.

F. Cărți/Manuale de specialitate/Cursuri publicate la edituri din țară recunoscute de CNCSIS (Books published in national publishing house)

1. **A. Holhoş**, Curs de Matematici speciale, U.T. Press, Cluj-Napoca, 2018.

G. Culegeri de probleme publicate la edituri din țară recunoscute de CNCSIS (Books published in national publishing house)

1. A. Ciupa, **A. Holhoş**, Calcul integral-culegere de probleme, Casa cărții de știință, Cluj-Napoca, 2011.
2. Colectiv UTCN, Teste grilă de matematică 2019, U.T. Press, Cluj-Napoca, 2019.