

Lista de lucrări în domeniul de studii universitare de licență Matematică*

Numele și prenumele: Kupán A. Pál

A. Teza de doctorat. *Scheme de aproximare cu restricții bazate pe funcții spline*

B. Cărți publicate

B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

Kupán A. Pál, *Lineáris algebra és alkalmazásai*, Scientia Kiadó, 2019.

B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

Minuț, P., Kupán, A.P., *Cercetări operaționale*, Ed. “Dimitrie Cantemir” Tg. Mures, 2001.

B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

Kupán, A.P., Nagy Zs., *Matematika és informatika a kertészetben-jegyzet*,
<https://moodle.ms.sapientia.ro/mod/folder/view.php?id=9543>

Kupán, A.P. *Numerikus módszerek-jegyzet*,
<https://moodle.sapidoc.ms.sapientia.ro/mod/resource/view.php?id=969>

B5. Capitle de cărți publicate în străinătate

B6. Capitle de cărți publicate în țară

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

Zayed, H.M.; Kupán, A.P.; Szász, R., Geometric Perspective of Generalized Bessel Function, *Journal of Inequalities and Applications*, (2025)

Kása, Z.; Kupán, A.P.; Patcas, Cs.Gy. Methods for the graph realization problem, *Acta Univ. Sapientiae Informatica*, 15/2 (2023), 267–293

Cotarla, L.I.; Kupán, A.P.; Szász, R. New Results about Radius of Convexity and Uniform Convexity of Bessel Functions, *Axioms*, 11/8, 380, (2022)
<https://doi.org/10.3390/axioms11080380>

Kupán, A.P., About strong starlikeness conditions, *Filomat*, 32/6, (2018), 2035-2042.

Kupán, A.P., Szász, R., Monotonicity results and a sharp upper bound for the Gamma function, *Integral Transforms Spec. Funct.* 25/7, (2014), 562-570.

Kupán, A.P., Szász, R., Monotonicity theorems and inequalities for the gamma function, *Math. Ineq. Appl.* 17/1, (2014), 149-159.

Baricz, Á., Kupán, A.P., Szász, R., The radius of starlikeness of normalized Bessel functions of the first kind, *Proc. Amer. Math. Soc.* 142, (2014), 2019-2025.

Szász, R., Kupán, A.P., A sharp inequality concerning the Gamma function, *Integral Transforms Spec. Funct.* 24/6, (2013), 502-508.

Szász, R., Kupán, A.P., Imre, A., Improvement of a criterion for starlikeness, *Rocky Mountain J. Math.*, 42/2, (2012), 759-772.

Szász, R., Kupán, A.P., The exact order of starlikeness of uniformly convex functions, *Comput. Math. Appl.*, 62/1, (2011), 173-186.

Faraci, F., Iannizzotto, A., Kupán, A.P., Varga, Cs., Existence and Multiplicity Results for Hemivariational Inequalities with two Parameters, *Nonlinear Anal.*, 67/9, (2007), 2654-2669.

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicați și baza de date).

Kupán, A.P., Márton, Gy., Szász, R., A result regarding monotonicity of the Gamma function, *Acta Universitatis Sapientiae, Mathematica*, 9/2, (2017), 291-302.

Engel, O., Kupán, A.P., Páll-Szabó, A., About the radius of convexity of some analytic functions, *Creat. Math. and Inform.*, 24/2, (2015), 157-163.

Szász, R., Kupán, A.P., About a condition for starlikeness, *Acta Univ. Sapientiae, Math.*, 5/1, (2013), 83-92.

Kupán, A.P., Szász, R., A remark regarding a starlikeness condition, *Appl. Math. Sci.(Ruse)*, 7/56, (2013), 2759-2767.

Kupán, A.P., Szász, R., About bounds for the elliptic integral of the first kind, *Rev. Anal. Numer. Theor. Approx.*, 41/2, (2012), 149-156.

Kupán, A.P., Szász, R., About a condition for starlikeness, *Ann. Univ. Sci. Budapest., Sect. Comput.*, 37, (2012), 261-274.

Kupán, A.P., Szász, R., Alexander transform of close-to-convex functions, *Stud. Univ. Babeș-Bolyai, Math.* (2010), LV/2, 151-158.

Szász, R., Kupán, A.P., Geometric properties of a particular function, *Mathematica (Cluj)*, 51(74)/2, (2009), 173-180.

Szász, R., Kupán, A.P., About the univalence of the Bessel functions, *Stud. Univ. Babes-Bolyai, Math.*, LIV/1, (2009), 127-132. (Mathematical Reviews, Zentralblatt für Mathematik.)

Kupán, A.P., Shape preserving quadratic interpolation at Greville abscissae, *Creat. Math. and Inform.*, 17/2, (2008), 56-66. (Mathematical Reviews, Zentralblatt für Mathematik.)

Kupán, A.P., Monotone interpolant built with slopes obtained by linear combination, LIII/2, *Stud. Univ. Babes-Bolyai, Math.* (2008), 59-66. (Mathematical Reviews, Zentralblatt für Mathematik.)

Varga, Cs., Kupán, A.P., Székely, I., Multiple solutions for a class of parametrized elliptic problems with singular and sublinear potentials, *An. Univ. Vest Timis. Ser. Mat.-Inform.*, XLV/2, (2007), 231-242. (Mathematical Reviews, Zentralblatt für Mathematik.)

C3. Lucrări științifice publicate în reviste din străinătate (altele decât cele menționate anterior).

C4. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS (altele decât cele din baze de date internaționale).

Kupán, A.P., Shape preserving Gordon surface, *Sci. Bull. of the Petru Maior Univ. Tg. Mures*, 3, (2007), 105-112.

C5. Lucrări științifice publicate în reviste, altele decât cele menționate anterior

Kupán P., Bencze M., Nagy Örs, et al.: V. Erdélyi Magyar Matematikaverseny, 5-8. évfolyam, Idea Studio, Szatmárnémeti, 2017

Kupán, A.P., Szász R., Imre A., A remark on inequalities between means, *Octagon Mathematical Magazine*, 19/2, (2011), 544-550.

Kupán, A.P., Szász R., Inequalities between pondered means, *Octagon Mathematical Magazine*, 19/1, (2011), 28-36.

Szász, R., Kupán, A.P., Solution of the OQ 2283, *Octagon Mathematical Magazine*, 17/1, (2009), 464-471.

Kupán, A.P., Aproximarea funcțiilor economice prin polinoame, *Ann. Univ. "Dimitrie Cantemir", Tg.Mureș*, (2001), 148-152.

Kupán, A.P., Rezolvarea cu ajutorul grafelor a problemelor de transport cu capacități limitate, *Ann. Univ. "Dimitrie Cantemir", Tg.Mureș*, (1998), 163-170.

C6. Lucrări științifice publicate în volumele manifestărilor științifice

Kupán, A.P., Monotone spline interpolation using function sequences, *Proc. of "miroCAD 2006" Int. Sci. Conf., Miskolc, Section G*, (2006), 71-78.

D. Traduceri de cărți, capitole de cărți, alte lucrări științifice

Kása Z., Kupán, A.P., *Graph reconstruction from degree sequences*, Conferință Internat. MathInfo-Tg. Mures, 2017.

Nagy, H., Kupán, A.P., *Improving the students performance using digital tools*, Conferință Internat. CADGME, 2016.

Kupán, A.P., *A gamma függvényre vonatkozó egyenlőtlenségek javítása*, conferință MatInfo-Tg. Mures, 2013.

Kupán, A.P., *Iterative methods solved with GeoGebra*, conferință IGGCW-Miskolc, 2011.

Kupán, A.P., *Lineáris transzformációk GeoGebrával*, conferință MTNE-Sovata, 2011.

E. Editare, coordonare de volume

F. Invenții.

G. Contracte de cercetare (menționați calitatea de director sau membru)

2015-2016: Stelaritatea și convexitatea funcțiilor analitice (membru)

2011-2014: Îmbunătățirea unor inegalități legate de funcția gamma și aplicații (director)

2008-2009: Probleme legate de inegalități între medii (membru)

2007-2008: Studii legate de stelaritate și convexitate (membru)

2006-2007: Sisteme de ecuații liniare infinite (membru)

2005-2006: Inegalități hemivariaționale rezolvate cu metode numerice (membru)

H. Creația artistică

H1 Participări la manifestații artistice internaționale

H2. Participări la manifestații artistice naționale

H3. Expoziții, filme, spectacole, concerte, discuri de autor, opere internaționale

H4. Expoziții, filme, spectacole, concerte, discuri de autor, opere naționale

H5. Produse cu drept de proprietate intelectuală în domeniul artistic

D

E I. Premii, distincții.

J. Citări

Numărul citărilor: 219, din care în ultimii cinci ani: 92.

<https://scholar.google.com/citations?hl=hu&user=jRltYJkAAAAJ>

1. Ricceri, B., Minimax theorems for functions involving a real variable and applications, *Fixed Point Theory*, 9/1, (2008), 275-291.
2. Ricceri, B., A three critical points theorem revisited, *Nonlinear Anal.*, 70/9, (2009), 3084-3089.
3. Iannizzotto, A., Three critical points for perturbed nonsmooth functionals and applications, *Nonlinear Anal.*, 72/3-4, (2010), 1319 – 1338.
4. Nicusor, C., Vicentiu, R., Inequality problems of quasi-hemivariational type involving set-valued operators and a nonlinear term, *J. Global Optim.*, 52/4, (2012), 743-756.
5. Lijing Xi, Yuying Zhou and Yisheng Huang, A class of quasilinear elliptic hemivariational inequality problems on unbounded domains, *J. of Industrial and Management Optimization*, 10/3, (2014), 827-837.

citează lucrarea:

Faraci, F., Iannizzotto, A., Kupán, A.P., Varga, Cs., Existence and Multiplicity Results for Hemivariational Inequalities with two Parameters, *Nonlinear Anal.*, 67/9, (2007), 2654-2669.

6. Baricz, Á., Frasin, B.A., Univalence of integral operators involving Bessel functions, *Appl. Math. Lett.*, 23/4, (2010), 371-376.
7. Baricz, Á., Ponnusamy, S., Starlikeness and convexity of generalized Bessel functions, *Integral Transforms. Spec. Funct.*, 21/9, (2010), 641-653.
8. Deniz, Erhan; Orhan, Halit; Srivastava, H. M. Some sufficient conditions for univalence of certain families of integral operators involving generalized Bessel functions, *Taiwanese J. Math.*, 15/2, (2011), 883–917.
9. Prajapat, J. K., Certain geometric properties of normalized Bessel functions, *Appl. Math. Lett.*, 24/12, (2011), 2133–2139.
10. Deniz, E., Convexity of integral operators involving generalized Bessel functions, *Integral Transforms Spec. Funct.*, 24/3 (2013), 201-216.
11. Baricz, Á., Szász, R., The radius of convexity of normalized Bessel functions of the first kind, *Anal. Appl. (Singap.)*, 12/5, (2014), 485-509.
12. Baricz, Á., Deniz, E., Caglar, M., Orhan, H., Differential subordinations involving generalized Bessel functions, *The Bull. of the Malaysian Math. Soc.*, 2, (2014), 1255-1280.
13. Szász, R., On starlikeness of Bessel functions of the first kind, *Monatshefte für Mathematik*, 1, (2014), , 323-330.

14. Poonam Sharma, Ravinder Krishna Rainer, Grigore Stefan Salagean, Some Geometric Properties of Analytic Functions Involving a New Fractional Operator, *Mediterranean Journal of Mathematics*, 13/6, (2016), .

citează lucrarea:

Szász, R., Kupán, A.P., About the univalence of the Bessel functions, *Stud. Univ. Babes-Bolyai, Math.* (2009), LIV/1, 127-132.

15. Noor, Khalida Inayat (PAK-COMS-M), On uniformly Bazilevic and related functions, *Abstr. Appl. Anal.*, 2012, Art. ID 345261, 15 pp.

citează lucrarea

Szász, R.; Kupán, A.P., The exact order of starlikeness of uniformly convex functions, *Comput. Math. Appl.*, 62/1, (2011), 173-186.

16. Baricz, Á., Szász, R., The radius of convexity of normalized Bessel functions of the first kind, *Anal. Appl. (Singap.)*, 12/5, (2014), 485-509.
17. Baricz, Á., Szász, R., Close-to-convexity of some special functions and their derivatives, *Proc. Amer. Math. Soc.* submitted 2014/2.
18. Chaggara, H., Romdhane, N.B., On the zeros of the hyper-Bessel function, *Integral Transforms Spec. Funct.*, 26/2, (2015), 96-101.
19. Szász, R., On starlikeness of Bessel functions of the first kind, *Monatshefte für Mathematik*, 1, (2014), 323-330.
20. Baricz, Á., Orhan H., Szász, R., The radius of alpha-convexity of normalized Bessel functions of the first kind, *Computational methods and Function Theory*, 16/1, (2016), 93-103.

citează lucrarea:

Baricz, Á., Kupán, A.P., Szász, R., The radius of starlikeness of normalized Bessel functions of the first kind, *Proc. Amer. Math. Soc.* 142 (2014), 2019-2025.

21. Kupán, P., Szász, R., Monotonicity results and a sharp upper bound for the gamma function, *Integral Transforms Spec. Funct.*, 25/7, (2014), 562-570.

citează lucrarea:

Szász, R., Kupán, A.P., A sharp inequality concerning the gamma function, *Integral Transforms Spec. Funct.*, 24/6, (2013), 502-508.

22. Qi, F., Li, W.H., Integral representations and properties of some functions involving the logarithmic function, *Filomat*, 29 (2015), 1-16.

citează lucrarea:

Kupán, A.P., Szász, R., Monotonicity theorems and inequalities for the gamma function, *Math. Ineq. Appl.* 17/1, (2014), 149-159.

K. Alte realizări semnificative.

Data, 28.09.2025.

Kupán Pál

**Kupán
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