

# **CURRICULUM VITAE**

**Sorin G. Gal**

## **EDUCATIE**

Absolvent in 1976 a Facultatii de Matematica, Universitatea "Babes-Bolyai" din Cluj-Napoca, Romania.

Masterat in Analiza Matematica (anul V de specializare) in 1977, la aceeasi universitate.

Doctorat in matematica la Universitatea "Babes-Bolyai" din Cluj-Napoca, 1993, teza cu titlul "Approximare cu restrictii ale functiilor reale", conducator stiintific Prof. univ. dr. Ioan Muntean.

Adresa: Departamentul de Matematica si Informatica, Universitatea din Oradea, Str. Universitatii No. 1, Oradea 410087, ROMANIA, // e-mail: galso@uoradea.ro

## **EXPERIENTA ACADEMICA**

2009-2011 - Numit de catre "Tennessee Board of Regents" ca si profesor adjunct la Departamentul de Matematica al Universitatii din Memphis, TN, SUA .

Visiting Profesor invitat pentru cercetare si predare la Departamentul de Matematica al Universitatii din Memphis, TN, SUA, dupa cum urmeaza :

2009 (semestrul II), 2005 (semestrul II), 2000 (semestrul I).

1996 - pina in prezent, Profesor univ. dr. la Departamentul de Matematica al Universitatii din Oradea

1993 - 1996, Conferentiar univ. dr. la Departamentul de Matematica al Universitatii din Oradea

1990 - 1993, Lector univ. Departamentul de Matematica al Universitatii din Oradea

1978 - 1990, Programator la Centrul de Calcul "Infratirea" Oradea

## **ACTIVITATEA DE CERCETARE**

- 9 monografii de cercetare publicate la edituri de prestigiu din strainatate : Birkhauser, Springer si World Scientific ;

- 1 monografie de cercetare publicata la Nova Sci. Publ., New York ;  
- peste 300 lucrari publicate in reviste de cercetare matematica, recenzate in Mathematical Reviews si Zentralblatt fur Mathematik.

**IN WEB OF SCIENCES** (cautare dupa Gal, sg\*).

- 144 lucrari ISI in Web of Science ;

- Citari din Web of Science, excluzind autocitarile : 1342 ;

**Citari in GOOGLE SCHOLAR : 5138**

### **GRANTURI DE CERCETARE**

- Director al grantului de cercetare **PN-II-ID-PCE-2011-3-0861/5.10.2011-5.10.2017**, "Aproximare cu operatori neliniari max-produs si cu metode tip distanta in teoria numerelor fuzzy, aplicate la procesarea imaginilor si semnalelor", 2011-2017 ;

- Mentor in cadrul grantului de cercetare postdoc, **PN-III-P1-11-PD-2016-1416**, cu titlul "Aproximare cu operatori max-produs Kantorovich si cu operatori minimizanti. Metode variationale in gasirea constantelor Lipschitz optimesi a inegalitatii lui Turan pentru polinoame quaternionice", 2018-2020.

### **ARIILE DE INTERES**

Teoria Aproximarii, Analiza Reala, Complexa si Hypercomplexa; Ecuatii de Evolutie de Variabile Spatiale Complexe, Matematica Fuzzy ; Semigrupuri de Operatori si Ecuatii Diferentiale Fuzzy; Analiza Functionala.

### **ACTIVITATEA DIDACTICA**

Cursuri si seminarii de :

Analiza Complexa, Analiza Reala, Functii Speciale, Ecuatii Diferentiale si Integrale, Calcul Diferential si Integral, Matematici Speciale pentru Ingineri, Matematica Fuzzy.

5 cursuri publicate la Editura Universitatii din Oradea :

1. Functii Reale si Elemente de Topologie, 1993

2. Abaliza Numerica, Partea I, , 1994

3. Elemente de Matematica Fuzzy (curs pentru masterat), 1996 (cu A.I. Ban)

4. Analiza Numerica, Partea II, Metode Numerice, 1998 (cu Al. Bica)

5. Matematici Speciale pentru Ingineri, 1998 (cu S. Scurtu)

6. Ghid pentru Laborator la Analiza Numerica, 1999 (cu A. Tripe, Al. Bica and C. Popescu)

### **ALTE ACTIVITATI**

- Abilitare : OMEN nr. 5633 MD, from 11.12.2013
- Director Departament de Matematica, 1994 - 1996, 1998 - 2000;
- Editor-Sef la "Analele Universitatii din Oradea" fasc. mat. (revista B+);
- Editor Asociat la revista germana ISI "Results in Mathematics (apare la editura Springer-Birkhauser)
- Editor Asociat la International Journal of Evolution Equations (USA) ;
- Editor Asociat la European Journal of Pure and Applied Mathematics (Istanbul, Turcia)
- Reviewer la Mathematical Reviews (USA) and Zentralblatt fur Mathematik (Germania).
- Referate la lucrari trimise la numeroase jurnale matematice :  
Acta Math. Hung., Publ. Math. Debrecen, Fuzzy Sets and Systems, Bol. Soc. Mat. Mexicana, Approx. Theor. and Appl., J. Fuzzy Math., Intern. J. Math. and Math. Sci., J. Math. Anal. and Appl., Constr. Approx., Nonlinear Analysis, Comp. Math. Appl., Neural Networks, Appl. Math. Comput., Applied Math. Letters, Results in Math., J. Approx. Theory, etc.
- Membru la Societate de Stiinte Matematice din Romania, membru la "American Mathematical Society", 1994 - .
- Participari la numeroase conferinte nationale si internationale.
- Website : <https://galsorin239.wixsite.com/mysite>

## **LISTA CARTILOR SI A LUCRARILOR**

### **-MONOGRAFII DE CERCETARE-**

1. (cu G. A. Anastassiou), *Approximation Theory:Moduli of Continuity and Global Smoothness Preservation* , Birkhauser Publ. Co., Boston, Basel, Berlin, 2000, **525** pages., ISBN 0-8176-4151-3.(MR 2000k:41001)
2. (cu A.I. Ban) *Defects of Properties in Mathematics. Quantitative Characterizations*, World Scientific Publ. Comp., New Jersey, London, Singapore, Hong Kong, 2002, **350** pages, ISBN 981-02-4924-1. (MR 2003b:0001)(Zbl 1035.0001)
3. *Introduction to Geometric Function Theory of Hypercomplex Variable*, Nova Science Publ. Inc., New York, 2002, xvi + **319** pages, ISBN 1-59033-363-0. (MR 2005f :30084)

4. *Global Smoothness and Shape Preserving Interpolation by Classical Operators*, Birkhauser Publ. Co., Boston, Basel, Berlin, 2005, **153** pages, ISBN 0-8176-4387-7 . (MR 2006c:41001, Zbl.1087.41001)
5. *Shape-Preserving Approximation by Real and Complex Polynomials*, Birkhauser Publ. Co., Boston, Basel, Berlin, **352** pages, 2008, ISBN: 978-0-8176-4702-5.
6. *Approximation by Complex Bernstein and Convolution Type Operators*, World Scientific Publ., New Jersey, London, Singapore, Hong Kong, **349** pages, 2009, ISBN: 978-9-8142-8242-0.
7. *Overconvergence in Complex Approximation*, **200** pages, Springer, 2013, ISBN : 978-1-4614-7097-7.
8. (cu Gal, Ciprian G. and Goldstein, Jerome A.) *Evolution Equations with a Complex Spatial Variable*, World Scientific Publishing Co. Pte. Ltd., Hackensack, NJ, 2014. x+**191** pages, ISBN: 978-981-4590-59-4.
9. (cu Bede, Barnabas and Coroianu, Lucian) *Approximation by Max-Product Type Operators*, Springer, New York, 2016, vii+**485** pages, ISBN : 978-3-319-34188-0.
10. (cu Sabadini, Irene) *Quaternionic Approximation With Applications to Slice Regular Functions*, Springer-Birkhauser, 2019, **221** pages, ISBN 978-3-030-10664-5.

### -LUCRARI IN REVISTE-

11. Differences divisees et representations sous forme des integrales du polynome d'interpolation....., Bull. Math. Soc. Sci. Roum., 5(73), 2,(1981), 147-15. (MR 83e:41003).
12. Sur les theoremes d'approximation de Weierstrass, Mathematica (Cluj), 23(46), 1, (1981), 25-30. (MR 83e:41009).
13. Sur les theoremes d'approximation de Stone-Weierstrass, Studia Univ. "Babes-Bolyai" (Cluj), ser. math. 26(1981), 33-39. (MR 84b:41029).

14. Sur l'approximation par des polynomes dans  $C^p[a, b]$ , *Studia Univ. "Babes-Bolyai" (Cluj)*, ser. math., 27(1982), 57-64. (MR 84f:41034).
15. Sur l'approximation par des suites dans un espace norme reel, avec applications aux espaces des fonctions, *Seminar "Th. Anghelutza"*, Politeh. Inst. of Cluj, vol. I (1983), 5-13.
16. Sur les ensembles denses dans quelques espaces des fonctions, *Mathematica (Cluj)*, 26(49)(1984), 45-51. (MR 87c:41016).
17. On the approximation by polynomials in  $C^q[0, 1]$ , *J. Approx. Theory*, 42(1984), 27-29. (MR 86c:41006).
18. Sur l'approximation des fonctions semi-continues par des suites de polynome, *Studia Univ. "Babes-Bolyai" (Cluj)*, ser. math., 30(1985), 5-8.(MR 87f:41009).
19. Dense linear subspaces in  $L^p(E)$ , *Rendiconti di Matematica (Roma)*, ser. VII, vol. 6, Nr. 1-2(1986), 125-130. (MR 89j:41052).
20. (with I. Muntean) Dini theorems for sequences which satisfy a generalized Alexandrov condition, "Babes-Bolyai" University, Research Seminars, Seminar on Mathematical Analysis, Preprint No. 7, 1987, 97-102.(MR 90f:54021).
21. Approximation of continuous functions by monotone sequences of polynomials with restricted coefficients, *Publ. Inst. Math. (Beograd)*, 44(56)(1988), 45-48. (MR 90d:41010).
22. Approximation of real-valued functions by monotone sequences of polynomials, "Babes-Bolyai" University, Research Seminars, Seminar on Mathematical Analysis, Preprint No. 7, 1988, 55-64. (MR 90c:41008).
23. Approximation of continuously differentiable functions by monotone sequences of polynomials of two variables, *Studia Univ. "Babes-Bolyai" (Cluj)*, ser. math. , 34(1989), Nr.2, 41-43. (MR 91k:41013).
24. Approximation in  $L^p[a, b]$  by sequences having properties of global monotony and applications to Fourier series, "Babes-Bolyai" University, Research Seminars, Seminar on Mathematical Analysis, Preprint No. 7, 1989, 61-68. (MR 91c:41052).

25. New Dini theorems for sequences which satisfy generalized Alexandrov conditions, *Studia Univ. "Babes-Bolyai", ser. math.*, 34(1989), 20-23. (MR 91g:26005).
26. Constructive approximation by monotonous polynomial sequences in  $Lip(M, \alpha)$ , with  $\alpha$  in  $(0, 1]$ , *J. Approx. Theory*, 59(1989), 356-358. (MR 90k:41010).
27. A construction of monotonically convergent sequences from successive approximations in certain Banach spaces, *Numerische Mathematik*, 56(1989), 67-71. (MR 90g:47118).
28. Extensions d'un resultat sur l'approximation par des polynomes dans  $C^p[0, 1]$ , *Mathematica(Cluj)*, 31(54)(1989), 47-51. (MR 91m:41013).
29. Calculus of the modulus of continuity for non-concave functions and applications, *Calcolo (Pisa)*, 3-4(1990), 195-202. (MR 92k:41014).
30. Approximation of continuous functions on  $[0, 1]$  by monotone sequences of polynomials having interpolating properties at 0 and 1, "Babes-Bolyai" University, Research Seminars, Seminar on Mathematical Analysis, Preprint Nr. 7, 1990, 45-52. (MR 93e:41011).
31. Approximation of continuous functions by monotone sequences of polynomials with integral coefficients, *Publ. Inst. Math. (Beograd)*, 49(63), (1991), 92-96. (MR 92h:41013).
32. Calculus of higher order modulus of smoothness for convex functions of higher order and applications, *Calcolo (Pisa)*, 3-4, 28(1991), 275-282. (MR 94e:26014).
33. Characterization of elements of best approximation in normed module over F-ordered rings, *Anal. Univ. Oradea, fasc. mat.*, 1(1991), 79-86.
34. (with J. Szabados) On monotone and doubly monotone polynomial approximation, *Acta Math. Hungar.*, 59(3-4)(1992), 395-399. (MR 94e:41014).
35. Calculus of the modulus of continuity for convex function defined on unbounded intervals and applications, "Babes-Bolyai" University, Research Seminars, Seminar on Mathematical Analysis, Preprint No. 7, 1992, 60-70. (MR 94e:26006).

36. Properties of the modulus of smoothness for convex function of higher order, *Anal. Univ. Oradea, fasc. mat.*, 2(1992), 48-52.
37. Calculus of higher order averaged modulus of smoothness in  $L^p$ -norm for convex functions of higher order, *Serdica Bulg. Math. Publ.*, 18(1992), 232-239. (MR 95d:41048).
38. Approximation of continuous functions by monotonous sequences of generalized polynomials with restricted coefficients, *Publ. Inst. Math. (Beograd)*, 52(66)(1992), 61-66. (MR 95f:41008).
39. Concave moduli of continuity and approximation of monotone convex derivatives by derivatives of Bernstein polynomials, *Mathematica (Cluj)*, 35(58)(1993), 232-239. (MR 95e:41011).
40. Remark on the degree of approximation of continuous functions by singular integrals, *Mathematische Nachrichten*, 164(1993), 197-199. (MR 95b:41029).
41. Calculus of the moduli of continuity in some subclasses of piecewise monotone and convex functions and applications, *Mathematica (Cluj)*, 35(58)(1993), 147-154. (MR 96a:41032).
42. Calculus of higher  $L^p$ -modulus of smoothness for convex functions of higher order and applications, *BAM 914(1993)*, vol. LXVIII, 169-178.
43. Calculus of some moduli of continuity and applications, "Babes-Bolyai" University, Research Seminars, Seminar on Mathematical Analysis, Preprint No. 7, 1993, 47-56. (MR 96c:41053).
44. On interpolation and approximation by monotone sequences of polynomials with monotone derivatives, *Anal. Univ. Oradea, fasc. mat.*, 3(1993), 23-25.
45. Jackson type estimates in the approximation of random functions by random polynomials, *Rendiconti de Matematica (Roma)*, ser. VII, 14(1994), 543-556. (MR 95k:41012).
46. A fuzzy variant of the Weierstrass approximation theorem, *J. Fuzzy Math.*, vol. 1, No. 4(1993), 865-872. (MR 94i:46107).

47. Hausdorff distances between fuzzy sets, *J. Fuzzy Math.*, vol. 2, No. 3 (1994), 623-634. (Zentr. fur Mat. ZM:818.54006).
48. Degree of approximation of fuzzy mappings by fuzzy polynomials, *J. Fuzzy Math.*, vol. 2(1994), 847-853. (MR 95m:41036).
49. On the order of best approximation in some subclasses of functions, "Babes-Bolyai" University, Research Seminars, Seminar on Mathematical Analysis, Preprint No. 7, 1994, 5-13. (Zentr. fur Mat.: 980.00721).
50. On a new property of DeVore-Leviatan polynomials in monotone and convex approximation, *Anal. Univ. Oradea*, 4(1994), 14-18.
51. Estimates in terms of Ditzian-Totik modulus in approximation of continuously differentiable functions by some positive linear operators, *Proceeding First Internat. Romai Conf., Oradea, 1994*, p. 216-223.
52. (with V. Berinde) Elementary problems regarding the polynomial approximation of continuous functions(in Romanian), *Seminar on Mathematical Creativity, University of Baia-Mare, Department of Mathematics*, vol. 3(1993-1994), 1-22.
53. On the Kurzweil-Henstock integral in probability, *St. Cerc. Mat. (Bucharest)*, tom 47, 3-4(1995), 263-269. (Zentr. fur Mat.: 851.60050), (MR 99m:26014).
54. Fuzzy variant of the Stone-Weierstrass approximation theorem, *Mathematica (Cluj)*, 37(60), Nr. 1-2(1995), 103-108. (Zentr. fur Mat.: 970.66243),(MR 99d:46102).
55. Approximate selections for fuzzy set valued mappings and applications, *J. Fuzzy Math.*, vol. 3, No. 4(1995), 941-947. (MR 96j:54011).
56. Properties of the modulus of continuity for monotone convex functions and applications, *Intern. J. Math. and Math. Sciences*, 18(1995), No. 3, 443-446. (MR 96a:41022).
57. On some metric concepts for fuzzy sets, *J. Fuzzy Math.*, vol. 3, No. 3(1995), 645-657. (Zentr. fur Mat.: 890.54007).
58. Remarks on a paper of O. Olteanu, *St. Cerc. Mat. (Bucharest)*, tom 48(1-2)(1996), 29-30. (Zentr. fur Mat.: 960.38246).

59. On Jackson's and Timan's estimates in the approximation of random functions by random polynomials, *Proceed. of ICAOR*, vol. II, Transilvania Press, Cluj-Napoca, 1997, p. 101-106. (MR 98g:41002).
60. On the exact order of approximation by Bernstein polynomials in some subclasses of functions, *Anal. Univ. Oradea, fasc. mat.*, (5-6) (1995-1996), 82-85. (Zentr. fur Mat. 980.07687).
61. On the sufficient conditions of monogeneity for functions of complex type variable, *Rev. Union. Mat. Argentina*, 40(1996), 33-42. (MR 98d:30060).
62. Interpolation of fuzzy mappings, *Mathematica (Cluj)*, 38(61), No. 1-2 (1996), 61-65. (MR 98m:41004).
63. Approximation of continuously Gateaux derivable functionals by Markov operators, *Rev. Anal. Numér. Théor. Approx.*, **25**(1996) nos. 1-2, 111-119. (MR 98m:41035).
64. Degree of approximation of continuous functions by some singular integrals, *Rev. Anal. Numér. Théor. Approx.*, **27**(1998), no. 2, 251-261. (MR 2001k:41023)
65. Approximation and interpolation of functions of hyperbolic-complex variable, *Rev. Union Mat. Argentina*, 40(3-4)(1997), 25-35. (MR 99g:41028).
66. Measures of noncompactness for fuzzy sets, *J. Fuzzy Math.*, vol. 5, No. 2(1997), 309-320. (Zentr. fur Mat. 890.54006).
67. (with A. Villena) Random condensation of singularities and applications, *Random Operators and Stochastic Equations*, vol. 5, No. 3 (1997), 263-268. (MR 98k:46127).
68. (with J. Szabados) On the preservation of global smoothness by some interpolation operators, *Studia Sci. Math. Hung.*, 35(1999), 397-414. (MR 2001e:41009)
69. (with A.I. Ban) Measures of noncompactness in fuzzy topological spaces, *Fuzzy Sets and Systems*, vol. 109(2000), 205-216.

- 70. (with P. Fjelstad)  $n$ -dimensional hyperbolic complex numbers, *Adv. Appl. Clifford Alg.*, vol. 8, No. 1(1998), 47-68.(MR 99i:30067).
- 71. (with P. Fjelstad)  $n$ -dimensional dual complex numbers, *Adv. Appl. Clifford Alg.*, vol. 8, No. 2(1998), 309-322.(MR 2000e:15024).
- 72. (with P. Fjelstad) Note on monogeneity of functions of complex-type variable, *Anal. Univ. Oradea, fasc. mat., tom VI(1997-1998)*, 119-124.
- [73.]  $n$  equivalence question between the Ditzian-Totik modulus of smoothness and an usual periodic modulus of smoothness, *Gen. Math. (Sibiu)*, 6(1998), 13-14.
- 74. (with G. A. Anastassiou) Some shift invariant integral operators, univariate case, revisited, *J. Comput. Anal. Appl.*, vol. 1, No. 1(1999), 3-23. (MR 2001a:41014)
- 75. (with G. A. Anastassiou) General theory of global smoothness preservation by singular integrals, univariate case, *J. Comput. Anal. Appl.*, Vol. 1, No. 3(1999), 289-317. (MR 2001d:41019)
- 76. (with G. A. Anastassiou) On some shift invariant multivariate integral operators, revisited, *J.Communic.Appl.Analysis*,5(2001), 265-275. (MR 2002d:41027)
- 77. (with G. A. Anastassiou) Global smoothness preservation by multivariate singular integrals, *Bull. Austral. Math. Soc.* 61(2000), 489-506. (MR 2001g:41033)
- 78. (with G. A. Anastassiou) On some differentiated shift invariant integral operators, univariate case, revisited, *Adv. Nonlinear Var. Inequal.* 2(2)(1999), 71-83.(MR 2000h:26020).
- 79. (with G. A. Anastassiou) On some differentiated shift invariant integral operators, multivariate case, revisited, *Adv. Nonlinear Var. Inequal.* 2(2)(1999), 97-109.(MR 2000h:26021).
- 80. The order of best approximation in some classes of functions, *J. Comput. Anal. Appl.*, vol. 2, No. 3(2000), 34-45. (MR 2001f:41034)
- 81. Random path integrals, *Stud. Cerc. Mat. (Bucharest)*, no. 4(1999), 235-247. (MR 2002d:26010)

82. Univalent functions of hyperbolic-complex and of dual-complex variable, *Mathematica (Cluj)*, 42(65)(2000), No.1, 27-36. (Zentralblatt fur Mathematik: Zbl. 1027.30066)
83. Starlike, convex and alpha-convex functions of hyperbolic complex and of dual complex variable, *Studia Univ. Babes-Bolyai, ser. math.*, 46(2001), no. 2, 23-40. (MR 2003k:30019)
84. (with A.I. Ban) Decomposable measures and information measures for intuitionistic fuzzy sets, *Fuzzy Sets and Systems*, 123(2001), 103-117. (MR 2002e:03084)
85. Spirallike functions of hyperbolic complex and of dual complex variable, *Bull. Math. Soc. Sci. Math. Roumanie (N.S.)*, 42(90), No. 4(1999), 331-339. (MR 2002j:30080)
86. (with J. Szabados) Partial shape preserving approximation by interpolation operators, in : "Functions, Series, Operators, Alexits Memorial Conference, 1999", (L. Leidler, F. Schipp and J. Szabados eds.), J. Bolyai Math. Society, Budapest, 2002, pp. 225-246. (MR 2004b:41016)
87. (with A.I. Ban) On the defect of additivity of fuzzy measures , *Fuzzy Sets and Systems*, 127(2002), 353-362. (MR 2003e:28042)
88. Approximation of (alpha)-holomorphic functions by areolar polynomials of Bernstein type, *Anal. Univ. Oradea, fasc. mat.,tom VII(1999-2000)*, 95-100. (MR 2001b:30052)
89. (with P. Mocanu) On the analytic n-starlike and n-spirallike functions, *Mathematica(Cluj)*, 43(66)(2001), No. 2, 203-210. (MR 2004h:30015)
90. Non-analytic n-starlike and n-spirallike functions, *Studia Univ. "Babes-Bolyai"(Cluj)*, ser. math.,XLIV(1999),43-48. (MR 2004e:30071)
91. (with I. Beg) On the probabilistic domain invariance, *J. Appl. Math. Stoch. Anal.*, 15(2002), No. 1, 29-37. (MR 2003c:47091)
92. (with G.A. Anastassiou) Convergence of generalized singular integrals to the unit, univariate case, *Math. Ineq. and Appl.* ,vol.3, no. 4(2000), 511-518. (MR 2001i:41033)

93. (with G.A. Anastassiou) On the convergence of generalized singular integrals, *RGMA*, Issue 4, vol. 3, 2000, article no. 9 (electronic journal).
94. Higher order derivative of Schwarz, Salagean and Ruscheweyh in the geometric theory of complex functions, *Rev. Roum. Math. Pures Appl.*, 47(2002), No. 1, 33-42. (MR 2004c:30014)
95. Holomorphic starlike, convex and alpha-convex functions of complex-type variable, *Bull. Math. Soc. Roum. Sci. Math.*, 44(92)(2001), No. 3, 259-270. (MR 2004j:30097)
96. (with A.I. Ban) On the defect of orthogonality in real normed linear spaces, *Bull. Math. Soc. Roum. Sci. Math.*, 44(92)(2001), No. 4, 331-343. (MR 2004i:15023)
97. Nonanalytic starlike and convex functions of dual complex and of hyperbolic complex variable, *Complex Variables, Theory and Application*, vol. 46(2001), 1-14. (MR 2002m:30062)
98. Elements of geometric theory for functions of quaternionic variable, *Adv. Appl. Clifford Algebras*, 10(2000), 91-106. (MR 2001m:30060)
99. (with G.A. Anastassiou) Nonpositive Jackson-type approximations to definite integrals, in *Trends in Approximation Theory (Proceed. Internat. Conf. Approx., K. Kopotun et al. eds.)*, Vanderbilt University Press, Nashville, TN, 2001, pp. 11-17, ISBN 0-8265-1379-4. (MR 2004b:41031)
100. (with G.A. Anastassiou) Partial shape preserving approximation by bivariate Hermite-Féjer polynomials, *Comp. and Math. with Appl.*, 42(2001), 57-64. (MR 2002c:41027)
101. (with G.A. Anastassiou) Partial shape-preserving approximation by bivariate Shepard operators, *Comp. and Math. with Appl.*, 42(2001), 47-56. (MR 2002c:41028)
102. (with G.A. Anastassiou) On a fuzzy trigonometric approximation theorem of Weierstrass-type, *J. Fuzzy Math.*, 9(2001), No. 3, 701-708. (Zentral. fur Math.: Zbl.1004.42005)

103. (with G.A. Anastassiou) On global smoothness preservation in complex approximation, *Ann. Polon. Math.*, LXXIX, 3(2002), 199-205. (MR 2003m:41026)
104. (with A.I. Ban) On the defect of complementarity of fuzzy measures, *Fuzzy Sets and Systems*, 131(2002), 365-380. (MR 2003h:28030)
105. (with A.I. Ban) Defect of monotonicity of fuzzy measures, *Anal. Univ. Oradea, fasc. mat.*, 8(2001), 33-45. (MR 2002g:28020)
106. (with A.I. Ban) On the minimal displacement of points under mappings, *Arch. Math. (Brno)*, 38(2002), 273-284. (MR 2003h:47096)
107. On some determinants associated to the sequences of real numbers, *Octogon Math. Mag.*, vol. 8, No. 2(2000), 379-381.
108. On an identity derived from interpolation theory, *Octogon Math. Mag.*, vol. 8, No. 2(2000), 429-430.
109. (with G.A. Anastassiou) Convergence of generalized singular integrals to the unit, multivariate case, in : *Applied Mathematics Reviews* (G.A. Anastassiou ed.), vol. 1, World Scientific, Singapore-New Jersey-London-Hong Kong, 2000, ISBN 981-02-4339-1, pp. 1-8. (MR 2001e:42032)
110. (with A.I. Ban) On the defect of equality for inequalities, *Octogon Math. Mag.*, 8(2001), 713-719.
111. (with P. Fjelstad) Two-dimensional geometries, topologies, trigonometries and physics generated by complex-type numbers, *Adv. Appl. Clifford Algebras*, 11, No.1,(2001), 87-107. (MR 2003k:83009)
112. Convolution-type integral operators in complex approximation on the unit disk, *J. of Computational Methods and Function Theory* 1(2001), No. 2, 417-432. (MR 2003h:30048)
113. Necessary and sufficient conditions for univalence for holomorphic functions of some hypercomplex variables, *Anal.Univ. Oradea, fasc. mat.*, tome 9(2002), 33-42. (MR 2004c:30081)
114. On the lower pointwise estimate by Bernstein polynomials, in : *Mathematical Analysis and Approximation Theory, Proceeding of the Romanian-German Research Seminar, ROGER, Sibiu, June 2002*, (H. Gonska and

- A. Lupas editors), pp. 103-108, Burg Verlag, Sibiu, 2002, ISBN 973-85647-4-3. (Zentral. fur Math. : Zbl.1032.41017)
115. On the Beatson convolution operators in the unit disk, *Journal of Analysis*, 10(2002), 101-106. (Zbl.pre1995598)
  116. Shape preserving bivariate polynomial approximation in  $C([-1,1] \times [-1,1])$ , *Approx. Theor. and Its Appl.*, vol. 18(2002), no. 1, 26-33. (MR 2003c:41024)
  117. Jackson-type estimate in monotone approximation by bivariate polynomials, *J. of Concrete and Applicable Mathematics*, vol. 1, No. 1 (2003), 63-74. (MR 2006e:41008)
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Aprilie, 2022

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