

LISTA DE LUCRĂRI

Conf. Dr. ACU Ana Maria

I. Listă lucrări relevante pentru activitatea științifică

1. (ISI) **Ana Maria Acu**, I. Rasa, *New estimates for the differences of positive linear operators*, Numerical Algorithms, ISSN: 1017-1398, DOI: 10.1007/s11075-016-0117-8.
2. (ISI) **Ana Maria Acu**, *Properties and applications of P_n -simple functionals*, Positivity, ISSN: 1385-1292, DOI 10.1007/s11117-016-0420-6
3. (ISI) **Ana Maria Acu**, *Improvement of Gruss and Ostrowski Type Inequalities*, Filomat, 29(9), 2015, 2027-2035
4. **Ana Maria Acu**, Heiner Gonska, *Weighted Ostrowski-Gruss type inequalities*, Stud. Univ. Babeș-Bolyai Math., 60(2015), No. 2, 183–192
5. (ISI) **Ana Maria Acu**, Heiner Gonska, *Composite Bernstein Cubature*, Banach Journal of Mathematical Analysis, ISSN: 1735-8787, Vol. 10, No.2, 235-250, 2016
6. (ISI) **Ana Maria Acu**, Maria Daniela Rusu, *New results concerning Chebyshev-Gruss type inequalities via discrete oscillations*, Applied Mathematics and Computation, 243, 585-593, 2014
7. (ISI) **Ana Maria Acu**, Daniel Florin Sofonea, *Some numerical integration methods based on interpolation polynomials*, Carpathian J., 29, No. 1, 1-8., 2013.
8. (ISI) **Ana Maria Acu**, Alina Babos, *Some Optimal Quadrature Formulas and Error Bounds*, Appl. Math. Inf. Sci. 6, No. 1, pp.429-437, 2012.
9. (ISI) **Ana Maria Acu**, H. Gonska, I. Rașu, *Grüss-type and Ostrowski-type inequalities in approximation theory*, Ukrainian Mathematical Journal, 63(6), 2011, 843 – 864.
10. (ISI) **Ana Maria Acu**, Heiner Gonska, *Ostrowski-type inequalities and moduli of smoothness*, Results in Mathematics, Volume 53, No. 3-4, pp. 217-228, July 2009.

II. Teza de doctorat

1. **Ana Maria Acu**, *Funcții spline și formule de aproximare ale integralelor definite*, Universitatea “Babeș-Bolyai” din Cluj-Napoca, 2007, coordonator științific Prof.univ.dr. Petru Blaga.

III. Cărți publicate

1. Carmen Violeta Popescu, **Ana Maria Acu**, Gloria Cerasela Crisan, Elena Nechita, *Statistics and Applications a Computational Perspective*, LAP Lambert Academic Publishing, 225 pg, 2015.
2. **Ana Maria Acu**, Daniel Florin Sofonea, *Metode Numerice*, Editura Universității “Lucian Blaga” din Sibiu, 147 pg, 2010.
3. D. Acu, M. Acu, P. Dicu, **Ana Maria Acu**, *Matematici aplicate în economie Volumul III - Elemente de teoria probabilităților și de statistica matematică*, Editura Universității “Lucian Blaga” din Sibiu, 204 pg, 2003.
4. D. Acu, M. Acu, P. Dicu, **Ana Maria Acu**, *Matematici aplicate în economie, Volumul II – Elemente de analiză matematică*, Editura Universității „Lucian Blaga” din Sibiu, 404 pg, 2002.
5. D. Acu, M. Acu, P. Dicu, **Ana Maria Acu**, *Analiză Matematică*, Editura Alma Mater, Sibiu, 493 pg, 2002.
6. D. Acu, M. Acu, P. Dicu, **Ana Maria Acu**, *Matematici aplicate în economie Volumul I – Elemente de algebră, programare liniară, teoria grafurilor*, Editura Universității „Lucian Blaga” din Sibiu, 212 pg, 2001.
7. **Ana Maria Acu**, M. Acu, P. Dicu, M. Olaru, *Analiză Matematică - Probleme*, Editura Universității „Lucian Blaga” din Sibiu, 163 pg, 2001.
8. **Ana Maria Acu**, M. Acu, P. Dicu, *Matematici aplicate în economie – Elemente de algebră, programare liniară și teoria grafurilor - Probleme*, Editura Universității „Lucian Blaga” din Sibiu, 148 pg, 2001.

IV. Articole publicate în reviste din fluxul științific internațional principal

1. (ISI) **Ana Maria Acu**, I. Rasa, *New estimates for the differences of positive linear operators*, Numerical Algorithms, DOI: 10.1007/s11075-016-0117-8.
2. (ISI) **Ana Maria Acu**, V. Radu, C. Muraru, *On the monotonicity of q -Schurer-Stancu type polynomials*, Miskolc Mathematical Notes (acceptat).
3. (ISI) D. Bărbosu, **Ana Maria Acu**, C. V. Muraru, *On certain GBS-Durrmeyer operators based on q -integers*, Turkish Journal of Mathematics, acceptat.
4. (ISI) **Ana Maria Acu**, C. Muraru, V. Radu, F. Sofonea, *Some approximation properties of a Durrmeyer variant of q -Bernstein-Schurer operators*, Mathematical Methods in Applied Science, DOI: 10.1002/mma.3949.
5. (ISI) **Ana Maria Acu**, *Properties and applications of P_n -simple functionals*, Positivity, DOI 10.1007/s11117-016-0420-6.
6. (ISI) **Ana Maria Acu**, F. Sofonea, D. Barbosu, *Note on a q -analogue of Stancu-Kantorovich operators*, Miskolc Mathematical Notes, Vol. 16, no.1, 2015, 3-15.
7. (ISI) T. Neer, **Ana Maria Acu**, P.N. Agrawal, *Bezier variant of genuine-Durrmeyer type operators based on Polya distribution*, Carpathian Journal of Mathematics, No 1, 2017.
8. (ISI) **Ana Maria Acu**, *Improvement of Gruss and Ostrowski Type Inequalities*, Filomat, (29)9, 2015, 2027-2035.
9. **Ana Maria Acu**, Heiner Gonska, *Weighted Ostrowski-Gruss type inequalities*, Stud. Univ. Babeş-Bolyai Math., 60(2015), No. 2, 183–192.
10. (ISI) **Ana Maria Acu**, Heiner Gonska, *Composite Bernstein Cubature*, Banach Journal of Mathematical Analysis, Banach Journal of Mathematical Analysis, Vol. 10, No.2, 235-250, 2016 .
11. (ISI) Shin Min Kang, **Ana Maria Acu**, Arif Rafiq, Young Chel Kwun, *Approximation properties of q -Kantorovich-Stancu operator* , Journal of Inequalities and Applications, Article Number: 211, Published: Jun 27 2015.
12. (ISI) Shin Min Kang, **Ana Maria Acu**, Arif Rafiq and Young Chel Kwun, *On q -analogue of Stancu-Schurer-Kantorovich operators based on q -Riemann integral*, Journal of Computational Analysis and Applications, Vol. 21, No. 3, 2016, 564-577.
13. (ISI) **Ana Maria Acu**, Muraru Carmen , *Approximation Properties of Bivariate Extension of q -Bernstein-Schurer-Kantorovich operators*, Results in Mathematics, 67 (3) , 265-279, 2015, DOI: 10.1007/s00025-015-0441-7 .
14. (ISI) **Ana Maria Acu**, *Stancu-Schurer-Kantorovich operators based on q -integers*, Applied Mathematics and Computation, 259, 896–907, 2015, DOI: 10.1016/j.amc.2015.03.032 .
15. **Ana Maria Acu**, D.F. Sofonea, *Approximation Properties of Bivariate Extension of q -Stancu-Kantorovich Operators*, Journal of Advances in Applied & Computational Mathematics, 2015, 2(1), 13-18.
16. (ISI) **Ana Maria Acu**, Maria Daniela Rusu, *New results concerning Chebyshev-Grusstype inequalities via discrete oscillations*, Applied Mathematics and Computation, 243, pp. 585-593, 2014 .
17. **Ana Maria Acu**, Heiner Gonska, *On Bullen's and related inequalities*, General Mathematics Vol. 22, No. 1 (2014), 19-26.
18. **Ana Maria Acu**, Maria Daniela Rusu, *Improvement and generalization of some Ostrowski-type inequalities*, J. Applied Functional Analysis, Vol.9, No. 3-4, pp. 216-229, 2014.
19. (ISI) **Ana Maria Acu**, Maria Daniela Rusu, *New results concerning Chebyshev-Grusstype inequalities via discrete oscillations*, Applied Mathematics and Computation, 243, pp. 585-593, 2014
20. **Ana Maria Acu**, Maria Daniela Rusu, *Improvement and generalization of some Ostrowski-type inequalities*, J. Applied Functional Analysis, Vol.9, No. 3-4, pp. 216-229, 2014.
21. (ISI) **Ana Maria Acu**, Daniel Florin Sofonea, *Some numerical integration methods based on interpolation polynomials*, Carpathian J., 29, No. 1, pg.1-8., 2013.
22. **Ana Maria Acu**, Daniel Florin Sofonea, Carmen Muraru, *Gruss and Ostrowski type inequalities and their applications*, "Vasile Alecsandri" University of Bacau, Faculty of Sciences, Scientific Studies and Research Series Mathematics and Informatics, Vol. 23, No. 1, pp. 5 – 14, 2013.
23. Carmen Muraru, **Ana Maria Acu**, *Some approximation properties of q -Durrmeyer-Schurer operators*, "Vasile Alecsandri" University of Bacau, Faculty of Sciences, Scientific Studies and Research Series Mathematics and Informatics, Vol. 23 , No. 1, 77 – 84, 2013.

24. (ISI) **Ana Maria Acu**, Alina Babos, *Some Optimal Quadrature Formulas and Error Bounds*, Appl. Math. Inf. Sci. 6, No. 1, pp.429-437, 2012.
25. Carmen Violeta Muraru, **Ana Maria Acu**, *Some approximations properties of Schurer-Bernstein operators based on q integers*, General Mathematics Vol. 20, No. 5 , Special Issue, pp. 61-70, 2012.
26. Alina Babos, **Ana Maria Acu**, *Some corrected optimal quadrature formulas in sense Nikolski and error bounds*, General Mathematics Vol. 20, No. 5, Special Issue, pp. 3-11, 2012.
27. Saman Shahbaz, Muhammad Qaiser Shahbaz, Arif Rafiq, **Ana Maria Acu**, *On trivariate Pseudo Weibull distribution* , Acta Universitatis Apulensis, No. 31, pp. 241-247, 2012.
28. **Ana Maria Acu**, Alina Babos, Petru Blaga, *Some corrected optimal quadrature formulas*, Stud. Univ. Babeş-Bolyai Math, 57, No. 4, pp. 561-578, 2012.
29. **Ana Maria Acu**, Daniel Florin Sofonea, *Asymptotic expressions for the remainder term in the quadrature formula of Gauss-Jacobi type*, Creat. Math. Inform., 21, No.1, pp. 1-11, 2012.
30. Arif Rafiq, Ana Maria Acu, *A new implicit iteration process for two strongly pseudocontractive mappings*, Creat. Math. Inform., 21, No.2, pp. 197 – 201, 2012.
31. (ISI) **Ana Maria Acu**, H. Gonska, I. Rasa, *Gruss- and Ostrowski-type in Approximation Theory*, Ukrainian Mathematical Journal, Vol. 63, No. 6, November, pp. 843-864, 2011.
32. (ISI) C. Boitor, A. Fratila, L. Stanciu, A. Pitic, **Ana Maria Acu**, *Socio-economic factors and hygienic food-illness involved in determining dental caries of 12-year-old children in rural and urban area*, Review of research and social intervention, vol.33, pp.167-177, 2011.
33. **Ana Maria Acu**, Daniel Florin Sofonea, *On an inequality of Ostrowski type*, Journal of Science and Arts, Year 11, No. 3(16), pp. 281-287, 2011.
34. **Ana Maria Acu**, Florin Sofonea, *A class of optimal quadrature formula*, Acta Universitatis Apulensis, Special Issue, pp. 481-489, 2011.
35. **Ana Maria Acu**, Alina Babos, Florin Sofonea, *The mean value theorems and inequalities of Ostrowski type*, Scientific Studies and Research Series Mathematics and Informatics, Bacau, Vol. 21, No. 1, pp. 5 – 16, 2011.
36. **Ana Maria Acu**, *Natural splines of Birkhoff type approximating the solution of differential equations*, General Mathematics, Vol. 18, No. 1, pp 3-17 , 2010.
37. (ISI) **Ana Maria Acu**, Arif Rafiq, Florin Sofonea, *Some new four-point quadrature formulas*, An. St. Univ. Ovidius Constanta Vol. 17(3), 1-13, 2009.
38. (ISI) **Ana Maria Acu**, Heiner Gonska, *Ostrowski-type inequalities and moduli of smoothness*, Results in Mathematics, Volume 53, No. 3-4, pp. 217-228, July 2009.
39. (ISI) **Ana Maria Acu**, Nicoleta Breaz, *Generalized monsplines and inequalities for the remainder term of quadrature formulas*, Journal of Computational Analysis and Applications, Vol. 11, No. 1, pp. 106-118, 2009
40. **Ana Maria Acu**, *Generalizations of some classical quadrature formulas*, Proceedings of the International Conference on Theory and Applications of Mathematics and Informatics, Acta Universitatis Apulensis-Special Issue, Alba-Iulia, pp.573-584, 2009.
41. Arif Rafiq, **Ana Maria Acu**, Florin Sofonea, *An Iterative Algorithm for Two Asymptotically Pseudocontractive Mappings*, Int. J. Open Problems Compt. Math., Vol. 2, No. 3, pp. 372-382, 2009
42. Arif Rafiq, **Ana Maria Acu**, Florin Sofonea, *On weighted Chebyshev type inequalities*, The Land Forces Academy Review, No. 2(54), pp.79-84, 2009.
43. **Ana Maria Acu**, Arif Rafiq, Carmen Violeta Muraru, *The remainder term of some quadrature formulae*, Studii si Cercetari stiintifice, seria Matematica, Bacau, No.19 , pp. 249-259, 2009.
44. Arif Rafiq, **Ana Maria Acu**, Mugur Acu, *Iteration of asymptotically pseudocontractive mappings in Banach space*, General Mathematics Vol. 17, No. 1, pp. 113-124, 2009.
45. Arif Rafiq, **Ana Maria Acu**, *Strong convergence of an implicit iteration process with errors for a finite family of strongly pseudocontractive mappings*, Analele Universitatii Oradea, Fasc. Matematica, Tom XVI, pp. 133-139, 2009.
46. **Ana Maria Acu**, A. Babos, *An error analysis for a quadrature formula*, Revista Academiei Fortelor Terestre, Anul XIV, Nr. 1 (53), Trimestrul I, pp. 96-102, 2009
47. A. Rafiq, Q. Shahbaz, A.M. Acu, *The Generalized Chebyshev type inequality*, Scientific Studies and Research, Series Mathematics and Informatics Vol. 19 , No. 1, pp. 195-200, 2009.
48. (ISI) **Ana Maria Acu**, Mugur Acu , *Gauss-Lobatto formulae and extremal problems with polynomials*, Journal of Inequalities and Applications , Volume 2008, Article ID624989, 10 pages.
49. **Ana Maria Acu** , Florin Sofonea, *Monosplines and quadrature formulas*, Automation Computers Applied Mathematics, Vol. 17 , pp. 181-189, 2008.

50. **Ana Maria Acu**, Mugur Acu, Arif Rafiq, *Extremal problems with polynomials*, Proceedings of The 8th Romanian German Seminar on Approximation Theory and its Applications, Sibiu, 28 May-1 June, 2008, General Mathematics, Vol.16. No 4., pp. 3-14, 2008.
51. **Ana Maria Acu**, *About some quadrature formulas*, Annali dell'Universit di Ferrara, Volume 54, Issue 2, pp. 171-181, 2008.
52. **Ana Maria Acu**, *About an intermediate point property in some quadrature formulas*, Acta Universitatis Apulensis, Nr. 15, pp 19-32, 2008.
53. Arif Rafiq, **Ana Maria Acu**, *Common fixed points of Ciric quasi-contractive operators through Ishikawa iteration process with errors*, General Mathematics Vol. 16, No. 3, 145–157, 2008.
54. **Ana Maria Acu**, Mugur Acu, *A quadrature formula based on a spline quasi-interpolant*, WSEAS Transaction on Business and Economics, Issue 7, Volume 5, ISSN: 1109-9526, pp 414-423, 2008.
55. **Ana Maria Acu**, Mugur Acu, Arif Rafiq, *The estimates for the remainder term of some quadrature formulae*, Acta Universitatis Apulensis, Nr. 16, pp 53-62, 2008.
56. Arif Rafiq, **Ana Maria Acu**, Mugur Acu, *Steepest descent approximations in Banach Space*, General Mathematics Vol.16, No. 3 , pp. 133–143, 2008.
57. Arif Rafiq, **Ana Maria Acu**, *On fixed points of pseudocontractive mappings*, Acta Universitatis Apulensis, Nr. 16, pp 63-69, 2008.
58. **Ana Maria Acu**, Eugen Constantinescu, *Some preserving properties of an integral operator*, Proceedings of International Symposium on Complex Analysis, Sibiu-Romania, August 26-29, General Mathematics, Vol. 15, No.2-3, pp.184-189, 2007.
59. **Ana Maria Acu**, *Spline quasi-interpolants and quadrature formulas*, Acta Universitatis Apulensis, Nr. 13, pp 21-36, 2007.
60. **Ana Maria Acu**, *Moment preserving spline approximation on finite intervals and Chakalov-Popoviciu quadratures*, Acta Universitatis Apulensis, Nr. 13, pp 37-56, 2007
61. **Ana Maria Acu**, *Monosplines and inequalities for the remainder term of quadrature formulas*, General Mathematics, Vol. 15, Nr.1, pp 81-92, 2007.
62. **Ana Maria Acu**, *Optimal quadrature formulas in the sense of Nikolski*, General Mathematics, Vol.14, No.2 , pp 109-119, 2006.
63. **Ana Maria Acu**, *New results in extremal problems with polynomials*, General Mathematics, Vol.12, No.1 , pp 53-60, 2004.
64. **Ana Maria Acu** , Mugur Acu, *On the exponential diophantine equations of the form $a^x - b^y c^z = +1$* , General Mathematics , Vol.9, No.1-2, pp. 53-56, 2001.
65. **Ana Maria Acu** , Mugur Acu, *On the exponential diophantine equations of the form $a^x - b^y c^z = +1$, with a, b, c prime numbers*, General Mathematics , Vol.8, No.3-4, pp. 73-77, 2000

V. Lucrări apărute în proceedings:

1. Alina Babos, **Ana Maria Acu**, Carmen Muraru, *Cubature formulas on a triangle with one curved side* , Proceedings of The 19th International Conference The Knowledge Based Organization-Applied Technical Sciences and Advanced Military Technologies Conference, Proceedings 3, pp. 13-17, 2013.
2. Carmen Muraru, **Ana Maria Acu**, Alina Babos, *On a modified Schurer-Stancu Operator*, The 19th International Conference The Knowledge Based Organization-Applied Technical Sciences and Advanced Military Technologies Conference, Proceedings 3, pp. 108-112, 2013.
3. **Acu Ana Maria**, Sofonea Florin, Muraru Carmen, *Aspecte didactice privind utilizarea softului GeoGebra in rezolvarea problemelor de programare liniara*, Proocedings al Conferintei "Cercetare si Practica in Didactica Moderna, Conferinta anuala de didactica", Alba-Iulia, ISSN 2344-4142, ISSN-L 2344-4142., pp. 456-464, 2013.
4. **Acu Ana Maria**, Sofonea Florin, *Utilizarea softului educational GeoGebra in predarea elementelor de probabilitati si statistica*, Proocedings al Conferintei "Cercetare si Practica in Didactica Moderna, Conferinta anuala de didactica", Alba-Iulia, ISSN 2344-4142, ISSN-L 2344-4142., pp. 598-607, 2013.
5. **Ana Maria Acu**, Daniel Florin Sofonea, *Some optimal quadrature formulas in sense Nikolski and error bounds*, Proceedings of the XIIIth Conference on Mathematics and its Applications University "Politehnica" of Timisoara, 1-3 November, ISSN 1224-6069, pp.59-64, 2012.

6. A. Babos, **Ana Maria Acu**, *Cubature formulas on tetrahedron*, The 17-th International Conference, The Knowledge-Based Organisation, Applied Technical Sciences and Advanced Military Technologies, Conference proceedings 3, 24-26 Nov. , ISSN: 1843-6722, pp. 216-219, 2011.
7. **Acu Ana Maria**, Rafiq Arif, *About a linear positive functional*, Proceedings of the twelfth Symposium of Mathematics and its Applications, Timișoara, ISSN:1224-6069, pp. 23-28, 2009.
8. **Ana Maria Acu**, Alina Babos, *An error analysis for a quadrature formula*, The 14-the International Conference The Knowledge-based organization Technical Sciences Computer Science, Modelling & Simulation and E-learning Technologies. Physics, Mathematics and Chemistry. Conference Proceedings 8, ISSN: 1843-6722, pp. 290-298, 2008.
9. F. Sofonea, **Ana Maria Acu**, A. Rafiq, *An error analysis for a family of four-point quadrature formulas*, Proceedings of the Fifth International Symposium "Mathematical Inequalities", ISBN 978-973-739-740-9., pp. 136-145 , 2008.
10. **Ana Maria Acu**, M. Acu, A. Rafiq, *Some inequalities of Ostrowski type in the case of weighted integrals*, Proceedings of the Fifth International Symposium "Mathematical Inequalities" , ISBN 978-973-739-740-9, pp. 9-22 , 2008.
11. **Ana Maria Acu**, Mugur Acu, *A quadrature formula associated with a spline quasiinterpolant operator*, Proceedings of the 12th WSEAS International Conferences on COMPUTERS, Heraklion, Greece, July 23-25, pp 212-217, 2008. (ISI)
12. **Ana Maria Acu**, *An intermediate point property in the quadrature formulas*, Proceedings of International Workshop "New Trends in Approximation, Optimization and Classification", Sibiu, October 1-5, pp. 9-20, 2008.

VI. Alte contribuții științifice:

1. **Acu Ana Maria**, Rafiq Arif, *Multistep fixed point iterations for asymptotically pseudocontractive mappings in real Banach space*, ISST Journal of Mathematics & Computing System, ISSN 0976 - 9048, Vol. 1 No.1, pp. 1-7, 2010
2. **Ana Maria Acu** , *A quadrature rule for Beta operators*, Journal of Approximation Theory and Applications, Vol. 3, No. 1-2, pp. 23-30, 2007.
3. **Ana Maria Acu** , *A generalized quadrature rule*, Journal of Approximation Theory and Applications, India, Vol.3, No. 1-2, pp. 1-8, 2007.
1. **Ana Maria Acu**, *Generalizations of some problems from Gazeta Matematica*, Mathematical Education , Vol.1 , No1 , pp. 89-94, 2005.
2. **Ana Maria Acu**, M.Acu, *On a arithmetical problem*, *Mathematical Education*, Vol.1, No1, pp. 109-112, 2005.
3. **Ana Maria Acu**, *Asupra unor probleme date la Concursul Interjudetean de Matematica "Grigore Moisil" 2003*, Anuar Matematic 2003 , Volumul VII , pp 23-26, 2003.

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Semnătura:

