

LISTA DE LUCRĂRI

Lector univ . dr. Ana Maria Acu

I. Teze de doctorat

T1. *Funcții spline și formule de aproximare ale integralelor definite*, Universitatea Babeș-Bolyai, coordinator Prof. dr. Petru Blaga

II. Cărți publicate, îndrumare publicate, capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator functionale, etc.

C1. Ana Maria Acu, Daniel Florin Sofonea, *Metode Numerice*, Editura Universității "Lucian Blaga" din Sibiu, 147 pg, 2010.

C2. 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.

C3. 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.

C4. D. Acu, M. Acu, P. Dicu, Ana Maria Acu, *Analiză Matematică*, Editura Alma Mater, Sibiu, 493 pg, 2002.

C5. 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.

C6. Ana Maria Acu, M. Acu, P. Dicu, M. Olaru, *Analiză Matematică - Probleme*, Editura Universității „Lucian Blaga” din Sibiu, 163 pg, 2001.

C7. 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.

III. Articole publicate sau acceptate pentru publicare, în reviste de specialitate de circulație internațională recunoscute, cotate ISI sau indexate în baze de date internaționale (Ris).

III.1. Articole ISI cu FI și SRI:

Ris1. Ana Maria Acu, Maria Daniela Rusu, *New results concerning Chebyshev-Grusstype inequalities via discrete oscillations*, Applied Mathematics and Computation, 243, pp. 585-593, 2014 (ISI, IF=1.349, SRI=0,6455)

Ris2. Ana Maria Acu, Alina Babos, *Some Optimal Quadrature Formulas and Error Bounds*, Appl. Math. Inf. Sci. 6, No. 1, pp.429-437, 2012. (ISI, IF=0.731, SRI=0,181)

III.2. Articole ISI cu FI fără SRI:

Ris3. Ana Maria Acu, *Improvement of Gruss and Ostrowski Type Inequalities*, Filomat, acceptat (ISI, IF=0.714)

Ris4. Ana Maria Acu, Daniel Florin Sofonea, *Some numerical integration methods based on interpolation polynomials*, Carpathian J., 29, No. 1, pg.1-8., 2013. (ISI, IF=0.852)

- Ris5. 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. (ISI, IF=0,154)
- Ris6. 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. (ISI, IF=1.354)
- Ris7. Ana Maria Acu**, Arif Rafiq, Florin Sofonea, *Some new four-point quadrature formulas*, An. St. Univ. Ovidius Constanta Vol. 17(3), 1-13, 2009. (ISI, IF=0,221)
- Ris8. 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. (ISI, IF=0.508)
- Ris9. Ana Maria Acu**, Nicoleta Breaz, *Generalized monosplines and inequalities for the remainder term of quadrature formulas*, Journal of Computational Analysis and Applications, Vol. 11, No. 1, pp. 106-118, 2009 (ISI, IF=0.502)
- Ris10. Ana Maria Acu**, Mugur Acu, *Gauss-Lobatto formulae and extremal problems with polynomials*, Journal of Inequalities and Applications, Volume 2008, Article ID624989, 10 pages. (ISI, IF=0.822)

III.4. Articole BDI:

- Ris11. 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
- Ris12. 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.
- Ris13. 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.
- Ris14. 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.
- Ris15. 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.
- Ris16. Saman Shahbaz, Muhammad Qaiser Shahbaz, Arif Rafiq, Ana Maria Acu**, *On trivariate Pseudo Weibull distribution*, Acta Universitatis Apulensis, No. 31, pp. 241-247, 2012.
- Ris17. Ana Maria Acu**, Alina Babos, Petru Blaga, *Some corrected optimal quadrature formulas*, Stud. Univ. Babeş-Bolyai Math, 57, No. 4, pp. 561-578, 2012.
- Ris18. 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.
- Ris19. 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.
- Ris20. 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.
- Ris21. Ana Maria Acu**, Florin Sofonea, *A class of optimal quadrature formula*, Acta Universitatis Apulensis, Special Issue, pp. 481-489, 2011.
- Ris22. 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.
- Ris23. Acu Ana Maria**, *Natural splines of Birkhoff type approximating the solution of differential equations*, General Mathematics, Vol. 18, No. 1, pp 3-17, 2010.
- Ris24. 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.

Ris25. 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

Ris26. Arif Rafiq, **Ana Maria Acu**, Florin Sofonea, *On weighted Chebyshev type inequalities*, The Land Forces Academy Review, No. 2(54), pp.79-84, 2009.

Ris27. **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.

Ris28. 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.

Ris29. 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.

Ris30. **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

Ris31. 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.

Ris32. **Ana Maria Acu** , Florin Sofonea, *Monosplines and quadrature formulas*, Automation Computers Applied Mathematics, Vol. 17 , pp. 181-189, 2008.

Ris33. **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.

Ris34. **Ana Maria Acu**, *About some quadrature formulas*, Annali dell'Universit di Ferrara, Volume 54, Issue 2, pp. 171-181, 2008.

Ris35. **Ana Maria Acu**, *About an intermediate point property in some quadrature formulas*, Acta Universitatis Apulensis, Nr. 15, pp 19-32, 2008.

Ris36. 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.

Ris37. **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.

Ris38. **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.

Ris39. Arif Rafiq, **Ana Maria Acu**, Mugur Acu, *Steepest descent approximations in Banach Space*, General Mathematics Vol.16, No. 3 , pp. 133–143, 2008.

Ris40. Arif Rafiq, **Ana Maria Acu**, *On fixed points of pseudocontractive mappings*, Acta Universitatis Apulensis, Nr. 16, pp 63-69, 2008.

Ris41. **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.

Ris42. **Ana Maria Acu**, *Spline quasi-interpolants and quadrature formulas*, Acta Universitatis Apulensis, Nr. 13, pp 21-36, 2007.

Ris43. **Ana Maria Acu**, *Moment preserving spline approximation on finite intervals and Chakalov-Popoviciu quadratures*, Acta Universitatis Apulensis, Nr. 13, pp 37-56, 2007

Ris44. **Ana Maria Acu**, *Monosplines and inequalities for the remainder term of quadrature formulas*, General Mathematics, Vol. 15, Nr.1, pp 81-92, 2007.

Ris45. **Ana Maria Acu**, *Optimal quadrature formulas in the sense of Nikolski*, General Mathematics, Vol.14, No.2 , pp 109-119, 2006.

Ris46. **Ana Maria Acu**, *New results in extremal problems with polynomials*, General Mathematics,

Vol.12, No.1 , pp 53-60, 2004.

Ris47. 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.

Ris48. 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

IV. Lucrări publicate în volumele unor manifestări științifice: a) internaționale recunocute (cu ISSN sau ISBN) din țară și străinătate(Vi) și b) naționale (Vn), inclusiv cotate ISI sau indexate în baze de date internaționale

a) internaționale recunocute (cu ISSN sau ISBN) din țară și străinătate(Vi)

Vi1. 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.

Vi2. 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.

Vi3. **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.

Vi4. 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.

Vi5. **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.

Vi6. **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.

Vi7. **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.

Vi8. 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.

Vi9. **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.

Vi10. **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.

Vi11. **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)

b) naționale (Vn), inclusiv cotate ISI sau indexate în baze de date internaționale

Vn1. **Acu Ana Maria**, Sofonea Florin, Muraru Carmen, *Aspecte didactice privind utilizarea softului GeoGebra in rezolvarea problemelor de programare liniara*, Proceedings 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.

Vn2. Acu Ana Maria, Sofonea Florin, *Utilizarea softului educational GeoGebra in predarea elementelor de probabilitati si statistica*, Proceedings 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.