

**UNIVERSITATEA „VASILE ALECSANDRI” DIN BACAU**

**Facultatea de Științe**

**Departamentul: Matematică, Informatică și Științele Educației**

**Lista de lucrări**  
**Carmen Violeta Popescu (Muraru)**

**Teza de doctorat**

Contribuții la aproximarea funcțiilor folosind operatori liniari, 2008, Universitatea “Babeș-Bolyai” din Cluj-Napoca, coordonator Prof.univ.dr Octavian Agratini

**Articole**

1. Carmen Muraru, “Some remarks on theory of interpolation”, Studii și Cercetări Științifice, ser. Mathematica, 13(2003), 79-88, Bacău;
2. Cerasela Crisan, Muraru Carmen ,“The study of the parameters of Ant system”, Proceedings of International Symposium of Young Researchers, ASE Moldova, ISBN 978-9975-75-319-1, pg. 36-39, Chișinău, Rep. Moldova, 2005;
3. Carmen Violeta Muraru, “On the monotonicity of Schurer type polynomials”, Carpathian Journal of Mathematics, 21(2005), 89-94, Baia Mare;
4. Carmen Violeta Muraru , “Remarks on knot inserting of a B-spline curve using Matlab”, Proceedings of International Symposium of Young Researchers, ASE Moldova, ISBN 978-9975-75-371-2, 54-57, Chișinău, Rep. Moldova, 2006;
5. Carmen Violeta Muraru, “On a class of bivariate operators”, Proceedings of International Conference on Numerical Analysis and Theory Approximation, NAAT 2006, Cluj-Napoca, Romania, ISBN 973-686-961-X, 305-311(eds. O. Agratini, P. Blaga);
6. Carmen Muraru, “Kantorovich-Szász bivariate operators”, Proceedings of International Conference on Mathematics and Informatics, ICMI45, Bacău, Romania, 2006, 169-175, Scientific Studies and Researches, Mathematics serie, 16(2006), Supliment;
7. Carmen Violeta Muraru, “Applications of divided differences in study of linear and positive operators”, Scientific Studies and Researches, Mathematics serie , 16(2006), Bacău , 131-140;
8. Carmen Muraru, “ On a class of bivariate Mirakjan-Szász type operators “, Journal of Approximation Theory and Applications (2007)
9. Ogun Dođru, Carmen Muraru, “Statistical approximations by a Stancu type bivariate generalization of Meyer-Konig and Zeller type operators” , Mathematical and Computer Modelling (ISI) , vol. 48, issues 5-6, September 2008, 961-968
10. Carmen Muraru, „On the sequence of Kantorovich type operators”, International Journal of Pure and Applied Mathematics, 45(2008), 439-445

11. C. V. Muraru , V. Niminet, „On a bivariate generalized Boolean Sum type operator”, Scientific Studies and Researches, Mathematics serie, 18 (153-160), 2008;
12. V. Niminet, C.V. Muraru, „Canonical nonlinear connection of lagrangian nonholonomic mechanical systems”, Scientific Studies and Researches, Mathematics serie, 18(173-180), 2008;
13. Nechita E., Muraru C.V., Talmaciu M., „Mechanisms in social insect societies and their use in optimization. A case study for trail laying behaviour”, Proceedings of the International Workshop: Bio- Inspired Comp. Methods used for Difficult Problems and Solving. Development of Intelligent and Complex Systems, BICS 2008, Tg Mures, 2008, Ed. AIP Conference proceedings 1117;
14. A.M. Acu, A. Rafiq, C.V. Muraru, „The remainder term of some quadrature formulae”, Scientific Studies and Research. Series Mathematics and Informatics, ISSN 2067 – 3566, 19 (1) ,5-15, 2009
15. C.V. Muraru, „On a Problem of Fitting Data Using Bezier Curves”, Broad Research in Artificial Intelligence and Neuroscience, Volume 1, Issue 2 , April 2010, ISSN 2067-3957 ,127-132
16. C.V.Muraru, „On a weighted statistical approximation properties of q-Schurer”, SSRMI 20(1), 171-178, 2010;
17. C.V.Muraru, „*Note on q-Bernstein- Schurer operators*”, Studia UBB, Mathematica ,LVI(2), 1-7, 2011
18. C.V. Muraru, V. Niminet,„On the statistical approximation properties of q-Schurer” SSRMI, 21(2011),
19. V. Niminet, C.V. Muraru, „Sub-Riemannian structures associated with a Lagrange generalized metric”, SSRMI, 21(2011)
20. C.V. Muraru, Acu A. M., Some approximation properties of a Schurer-Bernstein operators on q-integers, General Mathematics, 20 (5), 2012, 61-70
21. V.J. Inglezakis, V. Nedeff, M. Panainte, I. Caraman, C. Muraru, M. Dram, L. Focariu, V. C.Venetis, P.Coutsikos, *Producers and distributors survey on green products in Romania*, Buletinul Institutului Politehnic din Iasi, Chimie si Inginerie Chimică, Tomul LVIII (LXII) Fasc. 3, 2012, 29-40
22. Nechita E., Muraru C.V., Talmaciu M, *A bayesian approach for the assessment of risk probability. Case study for digital risk probability*, Environmental Engineering and Management Journal, 11(12), 2249-2256, 2012
23. Muraru C V, *Note on the q-Stancu -Schurer operators*, Miskolc Mathematical Notes, ,14(1), 191-20, 2013
24. Muraru C.V., Acu Ana, *Some approximation properties of q-Durrmeyer-Schurer operators*, SSRSMI, 23(1), 77-84, 2013
25. Acu Ana, Sofonea F., Muraru C.V., *Gruss and Ostrowski type inequalities and their applications*, 23(1), 5-14, 2013
26. Alina BABOS, Ana Maria ACU, Carmen-Violeta Muraru *Cubature Formulas on a Triangle with One Curved Side*, The 19th International Conference The Knowledge- Based Organization, 13-15 iunie 2013, Sibiu, “NICOLAE BĂLCESCU” LAND FORCES ACADEMY PUBLISHING HOUSE, CONFERENCE PROCEEDINGS 3,pg 13-18
27. Carmen-Violeta Muraru, Ana Maria ACU, Alina BABOS, *On a modified SCHURER-STANCU operator*, The 19th International Conference The Knowledge- Based

- Organization, 13-15 iunie 2013, Sibiu, “NICOLAE BĂLCESCU” LAND FORCES ACADEMY PUBLISHING HOUSE, CONFERENCE PROCEEDINGS 3, pg 108-113
28. 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.
  29. Carmen-Violeta Muraru, Ana Maria Acu, *Approximation Properties of Bivariate Extension of q-Bernstein–Schurer–Kantorovich operators*, Results in Mathematics, Online First, DOI 10.1007/s00025-015-0441-7
  30. Dan Barbosu, Carmen-Violeta Muraru, *Approximating B-continuous functions using GBS operators of Bernstein–Schurer–Stancu type based on q-integers*, Applied Mathematics and Computation, Volume 259, 15 May 2015, Pages 80–87
  31. Carmen Violeta Popescu (Muraru), Dorel Ureche, Camelia Ureche, Elena Nechita *A statistical model for estimation of ICHTYOFAUNA quality based on water parameters in Oituz basin*, Transylv. Rev. Syst. Ecol. Res. 17.1 (2015), DOI: 10.2478/trser-2013-0000
  32. Manea L.R., Berteza A.P., Nechita E., Popescu C.V., Sandu I. (2016) Mathematical model of the electrospinning process, Part I. Revista de chimie, 67 (7), FI = 0,677, 2016 (acceptată spre publicare)
  33. Manea L.R., Berteza A.P., Nechita E., Popescu C.V., Sandu I. (2016) Mathematical model of the electrospinning process, Part II. Effect of the technological parameters on the electrospun fibers diameter, Revista de Chimie, 67(8), FI = 0.677, 2016 (acceptată spre publicare)
  34. C.V.Popescu (Muraru) *Web 2 resources for teaching Matlab*, International Conference on Social Media on Academia-Research and Teaching-SMART 2014, Timisoara, SEP. 15-21, Pg. 79-82/indexata ISI 2016

## Cărți

1. Carmen-Violeta Muraru, „Metode Numerice. Seminarii în Matlab”, Ed. Edusoft, Bacău 2005, ISBN 973-87655-44;
2. Bogdan Pătruț, Carmen-Violeta Muraru, „Aplicații în C si C++”, Ed. Edusoft, Bacău 2006, ISBN 973-8934-05-2;
3. Carmen- Violeta Muraru, „Matlab- Ghid de studiu”, Ed. Edusoft, Bacau 2006,ISBN(10) 973-8934-35-4, ISBN (13) 978-973-8934-35-1
4. Carmen- Violeta Muraru, „Contribuții la aproximarea funcțiilor folosind operatori liniari”, Doctoral Thesis, Ed. Edusoft Bacau 2009, ISBN 978-973-1882-15-4 ;
5. Valer Nimitet, Carmen-Violeta Muraru, „Geometrie Computațională cu aplicații în Matlab”, Ed. PIM, 2010, ISBN 978-605-520-667-0
6. Carmen Violeta Muraru, Alina Mihaela Patriciu „Metode Numerice cu aplicații în Matlab” Ed. PIM, 2010, ISBN 978-6-6-520-935-4

7. *Advanced Bio-Inspired Computational Methods*, Ed. Univ. „Petru-Maior”, Editors: Călin Enăchescu, Barna Iantovich, Florin Filip, Part IV „Ant Colony Optimization” ISBN 978-973-7794-77-2, Nechita E., Muraru C.V., Talmaciu M., „Mechanisms in social insect societies and their use in optimization. A case study for trail laying behaviour”
8. Muraru Carmen Violeta(co-author), „Modern Paradigms in Computer Science and Applied Mathematics : A Handbook for PhD Students and Researchers”, Akademische Verlagsgemeinschaft München, Patrut, Bogdan [Ed] ; Crisan, Gloria-Cerasela [Ed.], ISBN 978-3-86306-757-1, 2011;
9. Carmen Violeta Muraru, “Metode Numerice”, Ed Alma Mater, ISBN 978-605-527-167-8, 2011
10. Carmen Violeta Muraru, Elena Nechita “Informatică Economică- Note de curs”, Ed. Alma Mater, ISBN 978-606-527-220-0, 2012
11. Carmen Violeta Popescu (Muraru), Acu Ana Maria, Gloria Cerasela Crişan, Elena Nechita, “Statistics and Applications. A Computational Perspective.”, Ed Lambert Academic Publishing, Eds. C.V. Popescu (Muraru), G.C. Crişan