Curriculum Vitae

Personal Information

Name	**Muraru Carmen-Violeta**
Address	Str. Letea nr.14, Bacau, Romania
Telephone	0040740/263098
E-mail	carmen_7419@yahoo.com
Nationality	Romanian
Date of birth	19.08.1974

Work Experience

2008- present	Lecturer, University of Bacau, Department of Mathematics and Informatics, Faculty of Science;
2004- 2008	Assist. prof., University of Bacau, Department of Mathematics and Informatics, Faculty of Science;
2001-2004	Junior Assist., University of Bacau, Department of Mathematics and Informatics, Faculty of Science;
2001-2002	Mathematics teacher, „Anghel Saligny", High-School, Bacau
1997-1998	Computer Science teacher, „Henri Coanda", Techical College, Bacau

Education and Training

2008	PhD in Applied Mathematics on the Numerical Analysis domain with a degree thesis regarding the Functions Approximation Theory using linear and positive operators
2003- 2007	PhD student in Applied Mathematics at the Faculty of Mathematics and Computer Science „Babes-Bolyai" University of Cluj-Napoca, supervisor Prof. Octavian Agratini, PhD
2000-2001	Master in Numerical Analysis, Faculty of Mathematics and Computer Science „Babes-Bolyai" University of Cluj-Napoca,
1998-2001	The Faculty of Computer Science, the „Technique of Calculus" College, Technical University of Cluj-Napoca with a degree on computational graphics
1993-1997	The Faculty of Science, Department of Mathematics and Physics, University of Bacau
1989-1993	„George Bacovia" High-School, Bacau (nowdays „Ferdinand I" National College, Bacau)

Personal Skills and Competences	
Mother Tongue	Romanian
Other Languages	English – excellent Italian - good
Artistic Skills and Competences	- painting, music, sport, travelling - 2009-2011- courses on Art School, Picture and Design
Social Skills and Competences	- team-worker, commitment - research works in collaboration with other authors
Organizing Skills and Competences	- co-ordinate activities with students; -member in Reform Commission of „Vasile Alecsandri" University - member in the Research Unit of the Department of Mathematics and Informatics, University of Bacau - member in the Organizing Committee of the INTERNATIONAL CONFERENCE ON MATHEMATICS AND INFORMATICS, ICMI45, Bacau, Romania, 2006 - member in the Organizing Committee of the CNMI 07, Bacău, Romania, November 16-17, 2007; - member in the Organizing Committee of the INTERNATIONAL CONFERENCE ON MATHEMATICS AND INFORMATICS, ICMI2, Bacau, Romania, 2009
Technical Skills and Competences	**-**work with computers, programming and using Microsoft Office - Programing Languages Pascal, C++, MatLab, MathCad, AutoCad
Driving Licence(s)	- license B
Additional Information	**Research main Domains**: - Theory of functions approximation; - B-spline and Bezier curves and surfaces; - Computer Graphics Aided Design **Courses and seminaries**: - Numerical Methods - Numerical Analysis - Mathematics Software - Economical Informatics

- Software for Statistics

Articles

1. <u>Carmen Muraru</u>, "Some remarks on theory of interpolation", Studii şi Cercetări Ştiinţifice, ser. Mathematica, 13(2003), 79-88, Bacău;
2. Cerasela Crisan, <u>Muraru Carmen</u> ,"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, Chişinău, Rep. Moldova, 2005;
3. <u>Carmen Muraru,</u> "On the monotonicity of Schurer type polynomials", Carpathian Journal of Mathematics, 21(2005), 89-94, Baia Mare;
4. <u>Carmen Muraru ,</u> "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, Chişinău, Rep. Moldova, 2006;
5. <u>Carmen Muraru,</u> "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. <u>Carmen Muraru,</u> "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. <u>Carmen Muraru,</u> "Applications of divided differences in study of linear and positive operators", Scientific Studies and Researches, Mathematics serie , 16(2006), Bacău , 131-140;
8. <u>Carmen Muraru,</u> " On a class of bivariate Mirakjan-Szász type operators ", Journal of Approximation Theory and Applications
9. Ogun Doğru, <u>Carmen Muraru,</u> "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. <u>Carmen Muraru,</u> ,,On the sequence of Kantorovich type operators", International Journal of Pure and Applied Mathematics, 45(2008), 439-445
11. <u>C. V. Muraru</u> , V. Niminet, ,,On a bivariate generalized Boolean Sum type operator", Scientific Studies and Researches, Mathematics serie, 18 (153-160), 2008;
12. V. Niminet, <u>C.V. Muraru,</u> ,,Canonical nonlinear connection of lagrangian nonholonomic mechanical systems", Scientific Studies and Researches, Mathematics serie, 18(173-180), 2008;
13. Nechita E., <u>Muraru C.V.</u>., 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, <u>C.V. Muraru</u>, „The remainder term of some quadrature formulae", Scientific Studies and Research. Series Mathematics and Informatics, ISSN 2067 – 3566, 19 (1) ,5-15, 2009

15. <u>C.V. Muraru</u>, „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. <u>C.V.Muraru</u>, *„Note on q-Bernstein- Schurer operators",* Studia Universitatis, ser. Mathematica (to be apperar)

Conferences

1. INTERNATIONAL SYMPOSIUM OF YOUNG RESEARCHERS, ASE MOLDOVA, Chişinău, Rep. Moldova, 2005, Cerasela Crisan, <u>Muraru Carmen</u> , *The study of the parameters of Ant system*;

2 INTERNATIONAL SYMPOSIUM OF YOUNG RESEARCHERS, ASE MOLDOVA, Chişinău, Rep. Moldova, 2006, <u>Carmen-Violeta Muraru</u> , *Remarks on knot inserting of a B-spline curve using Matlab*;

3**.** MASSE INTERNATIONAL CONGRESS OF MATHEMATICS, MICOM 2006, May 31-June 4, Paphos, Cyprus , <u>Carmen-Violeta Muraru</u>, *Applications of divided differences in study of linear and positive operators;*

4**.** INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND THEORY APPROXIMATION, NAAT 2006, June 5-8, Cluj-Napoca, Romania (eds. O. Agratini, P. Blaga), <u>Carmen-Violeta Muraru</u>, *On a class of bivariate operators*;

5. INTERNATIONAL CONFERENCE ON MATHEMATICS AND INFORMATICS, ICMI45, Bacău, România, September 24-27, 2006, <u>Carmen-Violeta Muraru</u>, *Kantorovich-Szász bivariate operators* ;

6. APPLIED MATHEMATICS AND SCIENTIFIC COMPUTING, BRIJUNI, CROATIA, JULY 9-13, 2007, <u>Carmen-Violeta Muraru</u>, *On the approximation properties of the bivariate tensor product*

7. FOURTH INTERNATIONAL CONFERENCE OF APPLIED MATHEMATICS AND COMPUTING, Plovdiv, August 12-18, 2006, Bulgaria, <u>Carmen-Violeta Muraru,</u> *On the sequence of Kantorovich type operators;*

8. INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND THEORY APPROXIMATION, Second Ed. NAAT 2010, September 23-26, Cluj-Napoca, Romania (eds. O. Agratini, P. Blaga), <u>Carmen-Violeta Muraru</u>, *On a generalized q-Bernstein- Schurer polynomials;*

Books:

1. <u>Carmen-Violeta Muraru</u>, „Numerical Methods. Seminaries in Matlab", Ed. Edusoft, Bacau 2005, ISBN 973-87655-44;
2. Bogdan Patrut, <u>Carmen-Violeta Muraru</u>, „Aplications in C and C++", Ed. Edusoft, Bacau 2006, ISBN 973-8934-05-2;
3. <u>Carmen- Violeta Muraru</u>, „Matlab- Guide for Study", Ed. Edusoft, Bacau 2006,ISBN(10) 973-8934-35-4, ISBN (13) 978-973-8934-35-1
4. <u>Carmen- Violeta Muraru</u>, „Contributions on the approximation of functions using linear operators", Doctoral Thesis, Ed. Edusoft Bacau 2009, ISBN 978-973-1882-15-4 ;
5. Valer Niminet, <u>Carmen-Violeta Muraru,</u> „Computational Geometry with applications in Matlab", Ed. PIM, 2010, ISBN 978-605-520-667-0
6. <u>Carmen Violeta Muraru</u>, Alina Mihaela Patriciu „Numerical Methods with applications in Matlab" Ed. PIM, 2101, ISBN 978-6-6-520-935-4
7. *Advanced Bio-Inspired Compuational Methods,* Ed. Univ. „Petru-Maior", Editors: Calin Enachescu, Barna Iantovich, Florin Filip, Part IV „Ant Colony Optimization"
ISBN 978-973-7794-77-2, Nechita E., <u>Muraru C.V.</u>., Talmaciu M., „Mechanisms in social insect societies and their use in optimization. A case study for trail laying behaviour"

-**Member in „Promoting Green Products" Project,** LIFE+ 08 INF/RO/507, Administrative region(s): North-East Region, EU-funded project. Expected start date: 01/01/2010 Expected end date: 31/12/2012