

**THE LIST CONTAINING THE ORIGINAL RESEARCH  
PAPERS AND BOOKS  
OF  
PROF. UNIV. DR. (PH.D.) VASILE POSTOLICĂ**  
**Romanian Academy of Scientists,  
“Vasile Alecsandri”University of Bacău,  
Faculty of Sciences,  
Department of Mathematics, Informatics and Training Sciences,  
ROMÂNIA,  
E-mail : [vpostolica@ambra.ro](mailto:vpostolica@ambra.ro)  
Web : [www.postolica.ambra.ro](http://www.postolica.ambra.ro)**

1. Postolică V. - *On Set Functions of Bounded  $p$ -Variation*. An. Șt. Univ. “Al. I. Cuza” Iasi, Romania, 24, 1978, p. 251 – 258.
2. Postolică V. - *On the Indefinite Integrals of Functions with Bounded  $p$ -Variation*. St. Cerc. Mat., 33, 1, 1981, p. 141 – 145.
3. Postolică V. - *Spline Functions in  $H$  – Locally Convex Spaces*. An. Șt. Univ. “Al. I. Cuza” Iasi, Romania, 27, 1981, p.333 – 338.
4. Postolică V. - *The General Best Approximation Problem in Topological Spaces*. Invited Research Communication to The Conference of General Topology, Iasi, Romania, May 15 – 17, 1981.
5. Postolică V. - *On Set Functions of Bounded Slope  $p$ -Variation*. An. Șt. Univ. “Al. I. Cuza” Iasi, Romania, 28, 1982, p. 5 – 9.
6. Postolică V., Hăvârneanu T. - *Distributions for Set Functions (I)*. An. Șt. Univ. “Al.I.Cuza” Iasi, Romania, 28, 1982, p. 19 – 24.
7. Postolică V. - *Strict Convexity and Best Vectorial Approximation in Linear Spaces*. An Șt. Univ. “Al. I. Cuza” Iasi, Romania, 29, 1983, p.39 – 48.
8. Postolică V. - *Strict Convexity and Best Approximation in Locally Convex Spaces*. Invited Research Communication to The National Conference of Mathematical Analysis, Piatra Neamt, May, 13 – 15, 1983.
9. Postolică V. - *Types of Optimality in Locally Convex Spaces*. Invited Research Communication to The 14-th National Conference on Geometry and Topology, Piatra Neamt, June 16-19, 1983.
10. Postolică V. - *Connections between Simultaneous Approximation, Vectorial Approximation and Strict Convexity with respect to a Family of Functions*. Invited Research Communication to The National Itinerant Seminar on Approximation, Optimization and Convexity, Iași, România, October 28 – 29, 1983.
11. Postolică V. - *On Best Approximation in Linear Spaces*. An Șt. Univ. “Al. I. Cuza” Iasi, România, 30, 1984, p. 19 – 24.
12. Postolică V. - *The Vectorial Subdifferential and the Conjugate of a Multifunction*. Invited Research Communication to The International Symposium “Workshop in Differential Equations and Control Theory”, Iasi, România, September, 9 – 13, 1984.

13. Postolică V. - *Strict Convexity and the Best Approximation Simultaneous and Vectorial in Linear Spaces*. An Șt. Univ. "Al. I. Cuza" Iasi, România, 30, 1985, p. 33 – 38.
14. Postolică V. - *Vectorial Optimization Programs with Multifunctions and Duality*. Ann. Sci. Math. Quebec, Canada, 1986, vol.10, no 1, p. 85 – 102.
15. Postolică V. - *A Generalization of Fenchel's Duality Theorem*. Ann. Sci. Math., Québec, Canada, 1986, Vol.10, no 2, p.199 – 206.
16. Postolică V. - *The Study of Production Process for Acetylene by Spline Functions*. Scientific Research Contract supported and applied in The Industrial Centre of Synthetical Fibres Săvinesti, Neamt, România, 1986.
17. Postolică V. - *Some Existence Results concerning the Efficient Points in Locally Convex Spaces*. "Babes – Bolyai" University, Faculty of Mathematics, Seminar on Mathematical Analysis, Cluj-Napoca, România, Preprint 7/1987, p.75 – 80.
18. Postolică V. - *Properties of the Efficient Points Sets in Quasi-Complete Locally Convex Spaces ordered by Closed and Supernormal Cones*. Invited Research Communication to The 8<sup>th</sup> National Seminar on Ordered Topological Vector Spaces, Brasov, România, June 13-14, 1987.
19. Postolică V. - *On Some Generalizations of Holder's Inequality*. "Babes – Bolyai". University, Faculty of Mathematics, Cluj – Napoca, România, The Mathematics Didactic, vol.4/1987-1988, p.195 – 202.
20. Postolică V. - *Existence Results for the Efficient Points in Locally Convex Spaces ordered by Supernormal Cones and Conically Bounded Sets*. "Babes – Bolyai" University, Faculty of Mathematics, Cluj - Napoca, România, Seminar on Mathematical Analysis, Preprint 7/1988, p.187 – 192.
21. Postolică V. - *The Solutions of some Functional Equations based on the Indefinite Integrals (I)*. "Babes – Bolyai" University, Faculty of Mathematics, Cluj - Napoca, România, The Mathematics Didactic, Vol. 5/1988-1989, p. 237 – 240.
22. Postolică V. - *Existence Conditions of Efficient Points for Multifunctions with Values in Locally Convex Spaces*. St. Cerc. Mat., 41, 4, 1989, p. 325 - 331.
23. Postolică V. - *On Lagrangian in Vectorial Optimization Problems with Multifunctions*. "Babes – Bolyai" University, Faculty of Mathematics, Cluj-Napoca, România, Seminar on Mathematical Analysis, Preprint 7/1989, p. 129 – 136.
24. Postolică V. - *Supernormal Cones and Applications (I)*. Invited Research Communication to The National Conference on Geometry and Topology, Suceava, România, October, 6 – 9, 1988. Published in The Proceedings of this Conference, Iasi, 1989, p. 275 – 289.
25. Postolică V. - *Supernormal Cones and Applications (II)*. Invited Research Communication to The 10<sup>th</sup> National Seminar on Ordered Topological Vector Spaces, Brașov, România, June 14 -15, 1989.
26. Postolică V., Hăvârneanu T. - *The Schwartz Spaces and Distributions for Set Functions (II)*. Bull. Math. de la Soc. Sci. Math. de la

- Roumanie, Tome 33 (81), no 3, 1989, p. 239-248.
27. Postolică V. - *Efficient Points and Supernormality*. Invited Research Communication to The 14<sup>th</sup> Symposium on Operation Research, University of Ulm, Germany, September, 6 - 8, 1989. The Abstract published in the corresponding Proceedings Volume, p.229.
  28. Postolică V. - *Spline Approximation of Countable Additive Set Functions with Bounded 2-Variation*. Invited Research Communication to The Third International Symposium on Orthogonal Polynomials and their Applications, Erice, Italy, June 1 – 8, 1990. Published by “Babes – Bolyai” University, Cluj-Napoca, România, Faculty of Mathematics and Informatics, Seminar on Mathematical Analysis, Preprint 7/1990, p. 63 – 76.
  29. Postolica V. - *Supernormal Cones in  $H$  – Locally Convex Spaces*. Invited Research Communication to The 11<sup>th</sup> National Seminar on Ordered Topological Vector Spaces, Constanța, România, June 15 – 17, 1990.
  30. Postolică V. - *Supernormal Cones and Existence Results for the Efficient Points*. Invited Research Communication to The International Conference on Differential Equations and Optimal Control, Iasi, România, August, 27 - September 1, 1990. Published in “*Differential Equations and Control Theory*”, Pitman Res. Notes Mat. Ser., 250, Longman Sci. Tech., Harlow, 1991, p.277 – 282.
  31. Postolică V. - *On  $\varepsilon$  - Vectorial Subdifferential and Applications*. Invited Research Communication to 12<sup>eme</sup> Colloque International Espaces Linéaires Ordonnées Topologiques organisé par Section des Sciences Mathématiques de L’Academie Roumaine et Société des Science Mathématiques de Roumanie, Braşov, Romania, 1991.
  32. Postolică V. - *On Spline Functions in  $H$  – Locally Convex Spaces and New Applications*. Invited Research Communicatio submitted to The Summer Symposium in Real Analysis IV, Bratislava, August 12 – 16, 1991.
  33. Postolică V. - *Duality for Vectorial Optimization Programs with Objective Maps Multifunctions and Applications*. Invited Research Communication submitted to The 15<sup>th</sup> IFIP Conference on System Modelling and Optimization, Zurich, Switzerland, September 2 – 6, 1991.
  34. Postolică V., Dumitreasa Gh., Țifui V. - *Lessons of Real Analysis (in Romanian)*. Published by S.C. Policromia Publishing House, Piatra Neamț, România, December 10, 1992 (300 p.). ISBN 933 – 95400 – 0 – 9. The final version published by MatrixRom Publishing House, Bucharest, Romania, 2001, ISBN 973-685-243-1.
  35. Postolică V. - *New Existence Results for Efficient Points in Locally Convex Spaces ordered by Supernormal Cones*. Journal of Global Optimization 3, 1993, p. 233 – 242, ISSN 0925-5001.
  36. Postolică V. - *Best Simultaneous and Vectorial Approximation in  $H$  – Locally Convex Spaces by a Special Class of Linear Subspaces*. Invited Research Communication to 13<sup>eme</sup> Colloque sur Espaces

- Linéaires Ordonnées Topologiques, Sinaia, România,  
June 24 – 26, 1992.
37. Postolică V., Isac G. - *The Best Approximation and Optimization in Locally Convex Spaces*. Book published by Verlag Peter Lang GmbH, Frankfurt am Main Germany, 1993.
  38. Postolică V. - *The Solutions of some Functional Equations based on the Indefinite Integrals (II)*. “Babes – Bolyai” University, Faculty of Mathematics, Cluj-Napoca, Romania, The Mathematics Didactics Vol.8/1993,p.139 – 144.
  39. Postolică V. - *Spline Solutions of some Vectorial Optimization Problems in  $H$  – Locally Convex Spaces*. Invited Research Communication to 14<sup>ème</sup> Colloque sur Espaces Linéaires Ordonnées Topologiques, Sinaia, România, June 23 – 25, 1993.
  40. Postolică V. - *An Extension to Sets of Supernormal Cones and Generalized Subdifferentials*. Journ. “Optimization”, vol.29, 1994, p.131 – 139.
  41. Postolică V., Niță R. - *The History of Computer Science in Romania*. Invited Research Report to 3<sup>ème</sup> Colloque “Historie de L’Informatique”, 13 – 15 Octobre, 1993, Sophia Antipolis, France. Published in the corresponding Proceedings volume as the second research paper of the section entitled “Aspects Socio – Politiques I”, p. 49 – 62.
  42. Postolică V. - *Vectorial Optimization in Locally Convex Spaces ordered by Supernormal Cones and Extensions*. Invited Research Report at The Fourth Workshop of The German Working Group on Decision Theory, Hotel Talblick, Holzau, in the mountains, near Chemnitz, Germany, March 14 – 18, 1994. Published in Revue d’Analyse Numérique et Théorie de l’Approximation, tome 29, no.2, 2000, p.181-189, Editions de L’Académie Roumaine, Cluj - Napoca, România.
  43. Postolică V., Bucur I. - *A Coincidence Result between the Sets of Efficient Points and Choquet Boundaires in Separated Locally Convex Spaces*. Invited Research Communication at The Fourth Workshop of The German Working Group on Decision Theory, Hotel Talblick, Holzau, in the mountains, near Chemnitz, Germany, March 14 – 18, 1994. Published in Journ. Optimization, vol. 36, 1996, p. 231 – 234.
  44. Postolică V. - *The Contribution of “Petru Rareș” College in the Development of the Mathematical Education, (in Romanian)*. Invited Research Communication on the occasion of the 125<sup>th</sup> Anniversary of College’s Foundation. Published in the Book entitled “ Petru Rareș National College-Leafs of History (1969-1999)”, authors: prof. Coralia Letiția Bunghez and prof. Gh.I. Bunghez, Nona Publishing House, România, 2003, p. 282 – 286.
  45. Postolică V. - *Properties of Pareto Sets in Locally Convex Spaces*. Invited Research Report at The International Conference on Operations Research, Technische Universität Berlin, Germany, August 30 – September 2, 1994. Published in Journ “Optimization”, Vol. 34, 1995, p. 223 – 229.

46. Postolică V. - *Duality for Vectorial Optimization Programs with Objective Maps Multifunctions*. Rev. Studii si Cercetari Stiintifice, Seria Matematica, no 4/1994,p. 67-71, Bacău State University.
47. Postolică V. - *On Supernormal Cones*. Rev. Studii si Cercetari Stiintifice, Seria Matematica, no 5/1995,p. 89 – 93, Bacău State University, Romania.
48. Postolică V. - *Calculus of Choquet Boundaries using Pareto Sets*. Invited Research Communication to The 12<sup>th</sup> International Conference on MCDM, Hagen, Germany, June 19 – 23, 1995. Published in Lecture Notes in Economics and Mathematical Systems 448, The Proceedings of The Twelfth International Conference on Multiple Criteria Decision Making, Hagen, Germany. Gunter Fandel, Tomas Gal (Eds), in collaboration with Thomas Hanne, Springer – Verlag, Berlin, Heidelberg, 1997, p. 47 – 54.
49. Postolică V. - *Some New Properties of Pareto Sets*. Invited Research Communication at the Symposium “The Present Mathematics and Its Applications”. Tiberiu Popovici Computer Science Institute, Cluj - Napoca, România, October 23 – 28, 1995.
50. Postolică V. - *Recent Results of Coincidence between the Choquet Boundaries and the Approximative Pareto Efficient Points Sets in Separated Locally Convex Spaces*. Invited Research Paper communicated to the Conference “Methods and Applications of Operations Research”, Ustron Wisla near Katowice, Poland, October 19 – 22, 1997 (on the occasion of the 60<sup>th</sup> Anniversary of Katowice’s University’s Foundation).
51. Postolică V. - *Recent Remarks on Supernormal cones*. Invited Research Communication at The 3<sup>rd</sup> Conference of “Aurel Vlaicu” University, Arad, Romania, May 16 – 17, 1996. Published in the Proceedings Volume of this Conference, p. 93 – 98.
52. Postolică V. - *Existence of Efficient Points under Completeness*. Invited Research Paper communicated at The Itinerant Seminar on Functional Equations, Approximation and Convexity, “Babes – Bolyai”, University, Faculty of Mathematics Cluj – Napoca, România, May 21 – 25, 1996. Published in the corresponding Proceedings Volume, as an Abstract version, p.135 – 136.
53. Postolică V. - *Lectures for Professors of Real Analysis, (in Romanian)*. Book published by Didactic House in Piatra Neamț, România, May 31, 1996.
54. Postolică V. - *Properties of Efficient Points Sets and Related Topics*. Invited Research Report to The Second International Conference in Multi – Objective Programming and Goal Programming (M.O.P.G.P. `96), May 16 – 18, 1996, Malaga, Spain. Published in Lecture Notes in Economics and Mathematical Systems 455, The Proceedings Volume of the M.O.P.G.P. `96, Rafael Caballero, Francisco Ruiz, Ralph F. Steuer (Eds), Springer – Verlag, Berlin, Heidelberg, 1997, p. 201 – 209.
55. Postolică V., Chiruță I. - *Health by Reflexotherapy*. Solteris Publishing House, Piatra Neamț, Romania, 1996 (Book containing 176 p.). ISBN

- 973-97558-2-8.
56. Postolică V. - *Best Approximation in  $H$  – Locally Convex Spaces*. Invited Research Report to The Third International Conference on Functional Analysis and Approximation Theory, Acquafredda di Maratea, (POTENZA – Italy), September 23 – 28, 1996. Rendiconti Del Circolo Matematico Di Palermo, Serie II, Suppl. 52 (1998), p.723-733.
  57. Postolică V. - *Supernormality and Pareto Efficiency in Locally Convex Spaces*. Invited Seminar at L'Universita Degli Studi di Roma "La Sapienza", Italy. Dipartimento di Matematiche Per Le Decisioni Economiche, Finanziare e Assigurative, Facolta di Economia e Commercio, Settembre, 25 – 26, 1996. Published as Research Report by this University in October 10, 1996 and by Bacău State University, România, in Rev. Studii si Cercetări Științifice, Seria: Matematică, nr.6/ 1996, p. 185 – 194.
  58. Postolică V. - *New Results on Pareto Efficiency in Separated Locally Convex Spaces*. Invited Research Communication to XVI<sup>ème</sup> Colloque Espaces Linéaires Ordonnés Topologiques organisé par la Section des Sciences Mathématiques de L'Académie Roumanie, Sinaia, România, 24 – 26 Juin, 1997.
  59. Postolică V. - *Recent Conditions for Pareto Efficiency in Locally Convex Spaces*. Invited Research Report (10 pp.) to The International Joint Meeting Euro XV – Informis XXXIV, Barcelona (Spain), July 14 – 17, 1997.
  60. Postolică V. - *Open Problems in Vectorial Optimization*. Invited Research Paper communicated to the Conference "Mathematical Analysis and Applications". "Al. I. Cuza" University, October 22 – 26, 1997, Iasi, România.
  61. Postolică V. - *Connections Between Vectorial Optimization and Strong Optimization in Separated Locally Convex Spaces*. Rev. Studii si Cercetări Științifice, Seria: Matematică, nr.7/ 1997, p. 141 – 146, Bacău State University, România.
  62. Postolică V. - *On the Best Approximation by Splines in  $H$  – Locally Convex Spaces*. Invited Research Communication to The International Conference on Mathematical Analysis and Applications, Craiova State University, Craiova, România, April 30 – May 2, 1998.
  63. Postolică V. - *Pareto Type Efficiency in Locally Convex Spaces through the agency of Supernormal Cones*. Invited Research Report to The Second Annual Conference of Romanian Society for Mathematical Sciences, Cluj Napoca, Romania, May 27 – 31, 1998. Published in Bull. Math. Soc. Sci. Math. Roumanie, Tome 41 (89) No 4, 1998, p. 267 - 277 .
  64. Postolică V. - *On Pareto Type Optimization*. Invited Research Communication to The Conference on the Occasion of The 50<sup>th</sup> Anniversary of Ploiești University's Foundation, Ploiești, România, May 28 – 30, 1998. Published in Bulletin of U.P.G. Vol. XLVII-L (1995-1998), Nr.16, Ploiesti, România, p. 57 – 62.
  65. Postolică V., Nîmîneț Valer - *Critical Points for a Special Kind of*

- Generalized Dynamical Systems*. The Annals of University “Dunărea de Jos” of Galați, Fascicle II, Mathematics, Physics, Theoretical Mechanics, Supplement to Tome XVI (XXI), 1998, Proceedings of Scientific Jubilee Session “50 Years of Higher Education in Galați”, Volume I, Mathematics, p. 213 – 221 (ISSN 1221 – 4531).
66. Postolică V., Nimineț Valer - *Mathematical Analysis (vol. I)*. Book published by Alfa Publishing House, Piatra-Neamț, România, 1998, ISBN 973 – 98300 – 2 – 1.
  67. Postolică V. - *A Survey of Pareto Efficiency in Separated Locally Convex Spaces ordered by Supernormal Cones*. Invited Research Communication to The 17<sup>th</sup> International Colloquim on Topological Ordered Linear Spaces organized by The Mathematical Section of Romanian Academy, Sinaia, România, June 16 – 18, 1998.
  68. Postolică V. - *A Survey of Pareto Efficiency in Locally Convex Spaces*. Invited Research Report (14 pp.) to The 16<sup>th</sup> European Conference on Operational Research, Brussels, Belgium, July 12 – 15, 1998. Published in Rev.Studii și Cercetări Științifice, Seria: Matematică, nr.11/2001, p.181-212, Bacău State University, România.
  69. Postolică V. - *A Method which Generates Splines in  $H$  – Locally Convex Spaces and Connections with Vectorial Optimization*. Positivity, vol. 2, no 4, 1998, p. 369 – 377, Kluwer Academic Publishers, The Netherlands, ISSN 1385-1292.
  70. Postolică V., Chiruță I. - *Inroad in Reflexotherapy*. Guide book of therapy published by Polirom Publishing House, Iasi, România, 1999, ISBN : 973 – 683 – 271 – 6.
  71. Postolică V., Nimineț Valer - *Mathematical Analysis (Vol. II)*. Book published by Alfa Publishing House, Piatra Neamț, România, 1999, ISBN 973 – 98300 – 3 – X.
  72. Postolică V. - *Syntheses from Foundations of Mathematics*. Book published by Matrix Rom Publishing House, Bucharest, România, 1999, ISBN 973 – 685 – 041 – 2.
  73. Postolică V., Filimon Dan Vlad - *The Gold Number in the Morphogenesis and the Energetics of the Living Systems. Relations with the Acupuncture*. Book published by Crigarux Publishing House, Piatra Neamț, România, 1999, ISBN 973-99316-0-X.
  74. Postolică V. - *Conditions for Pareto Efficiency in Locally Convex Spaces*. Mathematical Reports of Romanian Academy, Bucharest, România, 1999, vol.1 (51), no. 2, p. 257 – 269.
  75. Postolică V., Filimon Dan Vlad - *Inroad in Acupuncture. The Gold Number in the Structure and the Energetics of the Living Systems*. Book published by Polirom Publishing House, Iași, România, 2000, ISBN 973-683-426-3
  76. Postolică V., Nimineț V. - *Mathematical Analysis*. Book published by Matrix Rom Publishing House, Bucharest, România, 2000, ISBN 973-685-093-5.
  77. Postolică V. - *Optimization in Multicriteria Analysis*. Invited Seminario, il giorno 17 Marzo 2000 alle ore 16.00, Universita Degli Studi Della Tuscia, il Dipartimento di Scienze Ambientali, Facolta di

- Scienze, Via S.C. De Lellis, Viterbo, Italy.
78. Postolică V. - *On the Best Approximation of Set Functions*. Invited Research Report at The Fourth International Conference on Functional Analysis and Approximation Theory, Acquafredda di Maratea (Potenza, Italy), September 22 – 28, 2000. Published in Rendiconti Del Circolo Matematico Di Palermo, Serie II, Suppl.68 (2002), p.761-775.
  79. Postolică V., Scarelli A. - *Some Connections between Best Approximation, Vectorial Optimization and Multicriteria Analysis*. Nonlinear Analysis Forum Vol.5, July 2000, p.111 – 123, ISSN 1226-7228.
  80. Postolică V., Dumitreasa Gh., Țifui V. – *Lessons of Real Analysis ( in Romanian)*. Book published by Matrix Rom Publishing House, Bucharest, România, 2001, ISBN 973-685-243-1.
  81. Postolică V., Scarelli A., Venzi L. – *On the Equilibrium of Multidimensional Ecosystems*. Published in the Proceedings of The International Conference ENVIROMIS 2000 on the Environmental Observations, Modeling and Information Systems as Tools for Urban / Regional Pollution Rehabilitation, Tomsk, Russia, 24-28 October 2000, p.112-118. Nonlinear Analysis Forum, September 2001, Vol. 6(2), p. 321-335, Kyungshung University, Coreea, ISSN 1226-7228.
  82. Postolică V. - *Implications of the Choquet Boundaries in the Economic and Environmental Equilibria*. Invited Seminar inside the Teaching Assignement of the Bilateral Socrates – Erasmus Programme between Bacău State University, Romania and Universita Degli Studi Della Tuscia, Viterbo, Italy. April 5, 2001, Universita Degli Studi Della Tuscia, Italy.
  83. Postolică Vasile, Nimineț Valer – *Some Connections between the Supernormal Cones, Generalized Dynamical Systems and Choquet Boundaries*. Nonlinear Analysis Forum, September 2001, Vol. 6(2), p. 371-382, Kyungshung University, Coreea, ISSN 1226-7228.
  84. Postolică V. - *New Existence Results of Solutions for Vector Optimization Programs with Multifunctions*. Optimization, 2001, Vol. 50, p. 253 – 263, ISSN 0233-1934.
  85. Postolică V. – *Pareto Efficiency, Choquet Boundaries and Operators in Hausdorff Locally Convex Spaces*. Invited Research Communication at the 18<sup>th</sup> International Colloquium Topological Ordered Linear Spaces, Bucharest, România, September 26-26, 2001. The Abstract published in the Volume entitled "Seminar Topological Ordered Linear Spaces" no.18(2001), p. 93-94, Publishing House of Bucharest State University, Romania (Editor: Academician Romulus Cristescu), ISBN 973-575-618-8. Published in a completed version in Nonlinear Analysis Forum 7(2), December 2002, p. 215 – 230, ISSN 1226-7229.
  86. Postolică V. – *Vectorial Optimization Programs with Multiple Solutions*. Invited Research Raport (18 pp.) to the International Conference on Mathematical Analysis and Applications, Craiova State University, Craiova, România, November 2-3, 2001. Published in the Annals of Craiova State University, vol. XXIX, 2002, p. 52 – 62 .
  87. Postolică V. – *Pareto Optimization and Choquet Boundaries*.



- Research Communication to the International Conference on the occasion of the 40<sup>th</sup> Anniversary of Bacău State University, Bacău, România, November 23-25, 2001.
88. Postolică V., Nimineț V. – *Some Coincidence Results between (Approximative) Critical Points Sets, Choquet Boundaries and Related Topics*. Rev.Studii și Cercetări Științifice, Seria: Matematică, nr.11/2001, p.171-180, Bacău State University, România, ISSN 1224-2519.
  89. Postolică V. - *General Connections between Strong Optimization and Pareto Efficiency*. Invited Research Paper communicated to The International Conference "Analysis and Optimization of Differential Systems", "Ovidius" University, Constanța, România, September 10-14, 2002. Published in the Proceedings Volume entitled "Analysis and Optimization of Differential Systems" (Eds.: Viorel Barbu, Irena Lasiecka, Dan Tiba, Constantin Varsan), Kluwer Academic Publishers, Boston/Dordrecht/London, 2003, p. 315 – 320, ISBN 1-4020-7439-5.
  90. Postolică V., Scarelli A., Venzi L. - *New Proposals for the Study of the Equilibria in the Fish Wars using the Splines in H-Locally Convex Spaces and the Pareto Efficiency in Separated Locally Convex Spaces*. Invited Research Report (20 p.) achieved inside the Socrates - Erasmus bilateral Agreement between Bacău State University, Bacău, România and Università della Tuscia di Viterbo, Italy, March 02-April 1, 2002/2003. Accepted for presentation, with significant completions and based on the corresponding official invitations, at The 57<sup>th</sup> Meeting EWG – MCDA, University of Tuscia, Viterbo, ITALY, March 27 – 29, 2003 and to The 58<sup>th</sup> Meeting EWG - MCDA, Russian Academy, Moscow, October 9 – 11, 2003 . Published also in abstract form in Rev.Studii și Cercetări Științifice, Seria Matematică, nr.13/2003, p.139-144, Bacău State University, România, ISSN 1224-2519.
  91. Postolică V. – *Important Connections between Pareto Efficiency and Potential Theory with Applications*. Invited Research Report (18 p.) to The 12<sup>th</sup> International EURO Conference, Vrije Universiteit Brussel, Brussels, April, 2 - 5, 2002, Belgium. Its improved version entitled "*Pareto Efficiency, Choquet Boundaries and Operators in Hausdorff Locally Convex Spaces*" published in Nonlinear Analysis Forum, vol.7 (2), December 2002, p. 215 – 230.
  92. Postolică V. - *Some Recent Open Problems under Strong Connections between Pareto Efficiency, the Potential Theory and Related Topics*. Written on June 14, 2002 and published in Rev.Studii și Cercetări Științifice, Seria Matematică, Nr. 12/2002, p. 201 - 206, Bacău State University, România, ISSN 1224-2519.
  93. Postolică V. - *Some Significant Links among the Optimization Programs in ordered Hausdorff Locally Convex Spaces*. Invited Research Report (14 p.) at the International Symposium on Order Structures in Functional Analysis, organized by the Section of Mathematical Sciences, Romanian Academy, Bucharest, România,

- June 27, 2002.
94. Postolică V., Spătaru-Burcă Genoveva – *Mathematical Analysis. Exercises and Problems*. The first Edition. Book published by Matrix Rom Publishing House, Bucharest, România, November 4, 2002, ISBN 973-685-482-5.
  95. Postolică V. - *Bases of Trigonometry (Romanian version)*. Book published by Matrix Rom Publishing House, Bucharest, România, January 10, 2002, ISBN 973-685-512-X.
  96. Postolică V. - *Recent Results on Pareto Efficiency and Related Topics*. Invited Research Report(23 p.) at The 5<sup>th</sup> Congress of Romanian Mathematicians, June 22-28, 2003, University of Pitești, Pitești, România and to The Twelfth International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, August, 12 – 18, 2003. Published in The International Journal of Computational and Numerical Analysis and Applications, vol.4, no.2 (2003), p. 201- 231. Publishing House”Academic Publications”, Sofia, Bulgaria, ISSN 1311 – 6789.
  97. Postolică V. - *Spline Functions with Countable Sets of Knots – a Particular Case of Splines in H-Locally Convex Spaces*. Invited Research Paper communicated at The Twelfth International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, August, 12 – 18, 2003. Published in The International Journal of Pure and Applied Mathematics, vol. 19, no.3 (2005), p.351 – 358, Publishing House”Academic Publications”, Sofia, Bulgaria, ISSN 1311 –8080.
  98. Postolică V., Isac G. - *Full Nuclear Cones and a Relation between Strong Optimization and Pareto Efficiency*. Journal of Global Optimization (Publisher Springer Science+Business Media B.V., Formerly Kluwer Academic Publishers B.V., Published online in DOI: 10.1007/s10898-003-2687-y) and in Printed version of JGO, Vol. 32, Issue 4, August, 2005, p. 507 - 516. ISSN : 0925-5001, e-ISSN 1573 – 2916.
  99. Postolică V. - *A Survey on the Best Approximation in Locally Convex Spaces*. Invited Research Report presented at The Fifth International Conference on Functional Analysis and Approximation Theory, Acquafredda di Maratea (Potenza - Italy), June 16 – 23, 2004. Published in Acta Analysis Functionalis Applicata, Vol.7, No.2, June, 2005, p.151-167, ISSN 1009-1327, People’s Republic of China and in Nonlinear Analysis Forum, vol. 10(1), June, 2005, p.37 – 53, ISSN 1226-7228, Kyungshung University, Suyeong-gu Busan 613 – 600, Korea., ISSN 1226 – 7228.
  100. Postolică V. - *The Romanian Mathematics Education 2003 - 2004*. Invited Research Report at The 10<sup>th</sup> International Congress on The Mathematical Education (ICME-10), Technical University of Denmark, Copenhagen, July 4-11, 2004. Published in The Journal of The Korea Society of Mathematical Education Series D: Research in Mathematical Education, Vol.8, No.4 (Issue 20), December, 2004, p. 227-260, ISSN 1226 - 6191.

101. Postolică V. - *A Class of Generalized Dynamical Systems in Connection with Pareto Efficiency and Related Topics*. Invited Research Paper communicated to The International Conference "Complex Systems, Intelligence and Modern Technological Applications (CSIMTA'04 – Chairman Session INV2 - A), Monday 20.09.2004, 10<sup>00</sup>- 12<sup>00</sup>), Cherbourg, FRANCE, September 19 – 22, 2004. Published in the corresponding Electronic Proceedings Volume.
102. Postolică V., Nechita E., Crişan G. – *Ant Algorithms for Generalized Allocation Problems*. Invited Research Report at The International Symposium "Innovative Applications of Information Technologies in Business and Management" (InfoBUSINESS'2004), October 22-23, 2004, Iaşi, România. Published, as Abstract form, in the corresponding Proceedings Volume edited by Ph. D. Professor Ioan. I. Andone, p.146 – 148.
103. Postolică V. - *Efficiency and Choquet Boundaries in Separated Locally Convex Spaces*. International Journal of Mathematics and Mathematical Sciences, Volume 2004, no. 64, 16 November 2004, p. 3469 – 3483, ISSN 0161 – 1712, e-ISSN 1687- 0425.
104. Postolică V., Nimineţ V. – *Mathematics for Engineers, Economists and Managers*. Book published by Matrix Rom Publishing House, Bucharest, România, December 22, 2004, ISBN 973-685-848-0.
105. Postolică V., Spătaru - Burcă Genoveva – *Mathematical Analysis.Exercices and Problems*.The Second Edition. Book published by Matrix Rom Publishing House, Bucharest, România, 2004, ISBN 973-685-865-0.
106. Postolică V., Chiruţă I. - *Inroad in Reflexotherapy.Guide book in Reflexotherapy. Health by Massages, Foods and Natural Remedies*. Book achieved at 10<sup>th</sup> November of 2004 and published by Polirom Publishing House, Iaşi, România, January 2005, ISBN 973-681-880-2.
107. Postolică V. - *Basic Trigonometry.(English version)*. Book achieved at 25<sup>th</sup> of December 2004. Published by Matrix Rom Publishing House, Bucharest, România, 2006, ISBN (10) 973-755-033-1.
108. Postolică V. - *Fish Wars Studied by Splines and Efficiency*. Invited Research Report Submitted for Discussion at The 61<sup>st</sup> Meeting of The European Working Group "Multiple Criteria Decision Aiding". The University of Luxembourg, March 10 –11, 2005. Theme : Preference Modelling. The Abstract published in MCDA61, Proceedings Volume (Editors: R.Bisdorff, J.- L. Marichal, P. Meyer), p. 51.
109. Postolică V. - *Approximate Efficiency, Choquet Boundaries and Related Topics in Hausdorff Locally Convex Spaces*. Invited Research Report Presented at The Eighth SIAM Conference on Optimization, City Conference Centre, Stockholm, Sweden, May 15-19, 2005. Published in MCDA62 Papers, The 62-nd Meeting of The European Working Group "Multiple Criteria Decision Aiding"(Main theme of the Meeting : Infrastructure, Transport and Multicriteria Decision Aiding), The Swedish National Road and Transport Research

- Institute, Borlänge, Sweden, 22 – 23 September, 2005, p. 53/118-66/118. Published also in Rev. Studii și Cercetări Științifice, Seria Matematică, nr. 15/2005, p.135-152, Bacău State University, România, ISSN 1224 – 2519.
110. Postolică V. - *On the Best Approximation in H-Locally Convex Spaces and Related Topics*. Invited Research Paper submitted to Fejér-Riesz Conference, June 9-13, 2005, Eger, Hungary. Published as Abstract in the Volume containing the abstracts and the List of Participants.
  111. Postolică V. - *Recent Open Problems in Best Approximation*. Invited Research Paper (21 p.) presented at The National Conference of Mathematical Analysis and Applications, Craiova State University, Romania, September, 22 – 24, 2005.
  112. Postolică V., Liu Xiaolan, Zhu Jiang – *Ekeland's Principle and the Density of the Ekeland's Points in Topological Vector Spaces*. Nonlinear Analysis Forum 11(2), p. 153 – 163, 2006, ISSN 1226-7228.
  113. Postolică V. - *Choquet Boundaries and Recent Related Topics*. Invited Research Paper submitted at The 63<sup>rd</sup> Meeting of the European Working Group "Multiple Criteria Decision Aiding", Session 5 : "Theoretical Aspects", Porto, Portugal, March 30-31, 2006.
  114. Postolică V. - *Efficiency. Recent Results and Related Topics*. Invited Plenary Talk presented at The 5<sup>th</sup> International Conference on Operational Research: "Simulation and Optimization in Business and Industry", Tallinn, Estonia, May 17 - 20, 2006.
  115. Postolică V., Marian G., Munteanu M.T. - *New Optimization Methods Applied in the Production Planning and the Distribution on National Markets of Agricultural Machines*. Invited Research Report presented at The Romanian National Symposium "Complete Solutions for an Efficient Agriculture", on the occasion of the 85<sup>th</sup> Anniversary of S.C.Mecanica Ceahlău S.A., Piatra Neamț, România, June 29-July1, 2006. Published in the Volume entitled "Modern Techniques in the Management, Conception and the Achievement of the Machines and the Equipments", p. 5-34. Bren Publishing House, Bucharest, 2006 and in Rev. Studii și Cercetări Științifice, Seria Matematică, Bacău, România, nr.16/2006, p. 209-238, ISSN 1224 – 2519.
  116. Postolică V. - *A Survey on The Efficiency*. Plenary Talk at The International Conference on Mathematics and Informatics, Bacău University Romania, September 18-20, 2006 and 40 Minutes Presentation at The 64<sup>th</sup> Meeting of The EURO Working Group & Multicriteria Decision Aiding, 28 – 30 September, 2006 at The Technological Education Institute in Larissa, Greece. Published in the Corresponding Proceedings Volume: Supplement of Studii și Cercetări Științifice, Seria Matematică, Bacău, Romania, nr.16/2006, p. 223 – 262, ISSN 1224 – 2519.
  117. Postolică V. - *Efficiency by Applied Mathematics: Mathematical Analysis. Immediate Applications. Topical Efficiency and in Prospect*. Book published by Matrix Rom Publishing House, Bucharest,

- România, 2006, ISBN (10) 973-755-108-7,  
ISBN (13) 978-973-755-108-5.
118. Postolică V. - *Syntheses from Foundations of Mathematics and Applications*. Book published by Matrix Rom Publishing House, Bucharest, România, 2007, ISBN 978-973-755-132-0.
  119. Postolică V., Yu Yajuan, Zhu Jiang – *Initial Value Problems for First order Impulsive Integro-Differential Equations of Volterra Type in Banach Spaces*. Journal of Function Spaces and Applications 5 (1), p. 9 - 26, 2007, ISSN 0972 – 6802.
  120. Postolică V. - *Recent Related Topics on Pareto Efficiency in Infinite Dimensional Vector Spaces*. Submitted for publication in the Proceedings of the Estonian Academy of Sciences on 29 January, 2007.
  121. Postolică V. - *A Recent Survey on Pareto Efficiency in Infinite Dimensional Vector Spaces*. Invited Research Report presented at The European Working Group Multiple Criteria Decision Aiding Meeting (MCDA'65, Poznań, Poland, April 12 -14, 2007). Submitted for discussion and MCDA'66, Marrakesh, Morocco, 18-20 October, 2007 in the Session 1; Chairman of Session 3). The Abstract published in the Official Programme.
  122. Postolică V. – *Recent Results on Pareto Efficiency in Infinite Dimensional Vector Spaces*. Research Work Communicated at the 2<sup>nd</sup> International Workshop on Multi - Criteria Decision Making (MCDM'07) accompanying by the Sixth National Scientific Conference “Preference Modeling and Risk'07”, April 14 -17, 2007, Ustron, Poland. To be published in the appropriate Scientific Journal.
  123. Postolică V. - *Present and Views by Efficiency*. Research Communication for the Spring Conference of Romanian Academy of Scientists, Central Hotel of Piatra Neamț County, România , April 20, 2007.
  124. Postolică V. - *A Coincidence Result between the Sets of Approximate Efficient Points and Choquet Boundaries in Ordered Locally Convex Spaces*. Research Report presented at the 6<sup>th</sup> Congress of Romanian Mathematicians, Bucharest, România, June 28 – July 4, 2007. Proceedings of the Sixth Congress of Romanian Mathematicians, Bucharest, 2007, Vol.1, pp. 295-299.
  125. Postolică V. – *Efficiency and Optimization*. Invited Research Report presented at The 6<sup>th</sup> International Congress on Industrial and Applied Mathematics, Zürich, Switzerland, 16 – 20 July, 2007. Accepted for publication in the corresponding Proceedings Volume.
  126. Postolică V. – *Efficiency or/and Optimization*. Invited Lecture presented to The 9<sup>th</sup> National Conference on Mathematical Analysis and Applications (CAMA'07), University “Al. I. Cuza” Iași, România, October 26 – 27, 2007. To appear in An. Șt. Univ. “Al. I. Cuza” Iași, România.
  127. Postolică V. – *Present and Future in Efficiency*. Invited Research Report presented at the 7<sup>th</sup> Conference with International Participation “Constructive and Technological Design Optimization

- in the Machines Building Field”, Bacău State University, Faculty of Engineering, November 1 – 3, 2007. Published by the Romanian Technical Sciences Academy and Bacău State University in Vol. 3 entitled “Modelling and Optimization in the Machines Building Field”, MOCM-13, ISSN 1224 -7480, Alma Mater Publishing House, Bacău, România, p. 213 – 219, 2007.
128. Postolică V. – *Approximate Efficiency and Applications*. Lecture presented at National Conference of Mathematics and Computer Science (CNMI’2007), Bacău State University, Romania, November 16 – 17, 2007. Published in Stud. Cercet. Știint., Ser. Mat., 17 (2007), Supplement Proceedings of CNMI 2007, Bacău, Sept. 2007, p. 201-220, ISSN 1224 - 2519.
  129. Postolică V. - *Efficiency by Applied Mathematics: Mathematical Analysis. Multiple Applications. Efficiency and Optimization*. Book published by Matrix Rom Publishing House, Bucharest, România, December 10, 2007, ISBN 978-973-755-274-7.
  130. Postolică V., Burcă G.- *Mathematical Analysis. Exercises and Problems. Applications for the students*. Alma Mater Publishing House, Bacău, România, 2007, ISBN 978-973-1833-63-7.
  131. Postolică V. - *Choquet Boundaries and Efficiency*. Computers and Mathematics with Applications, 55, 2008, p. 381 – 391, ISSN 0898 –1221.
  132. Postolică V. – *Efficiency and Applications*. Invited Research Report presented at the 79<sup>th</sup> Annual Meeting of the International Association of Applied Mathematics and Mechanics, Section 16: “Optimization”, on Wednesday, 02.04.2008 (GAMM’08, University of Bremen, Germany, March 31 – April 4, 2008). Article first published online: 26 Feb.2009 DOI:10.1002/PAM.Proc.Appl.Math.Mech.200810783 Special Issue:79<sup>th</sup> Annual Meeting of the International Association of Applied Mathematics and Mechanics (GAMM) Bremen 2008, Volume 8, Issue 1, pages 10783-10794, December, 2008.
  133. Postolică V. – *Foundations of Mathematics at the Present Time by Efficiency*. Book published by Matrix Rom Publishing House, Bucharest, România, April 18, 2008, ISBN 978-973-755-334-8.
  134. Postolică V. – *Efficiency*. Invited Paper submitted for discussion at the 67<sup>th</sup> Meeting of the European Working Group”Multiple Criteria Decision Aiding”, Rovaniemi, Lapland, Finland, April 3 – 5, 2008.
  135. Postolică V. – *The Romanian Mathematics Education Now*. Invited Research Report presented at The Fifth European Congress of Mathematics, 14 – 18 July, 2008, Amsterdam RAI, The Netherlands. Published, as a first version, in Studii și Cercetări Științifice, Seria Științe Socio-Umane, Bacău, România, nr.12/2008, p. 275 – 296, ISSN 1224-9866. Submitted, in the final form, for publication in the Journal of the Korea Society of Mathematical Education on 30 July, 2008.
  136. Postolică V. – *Efficiency and Applications*. Invited Research Paper submitted to ATOM-N 2008, 4<sup>th</sup> Edition: Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, 28-31

- August 2008, Constanta, Romania. Published in Proceedings in Applied Mathematics and Mechanics (PAMM) edited by Gesellschaft für Angewandte Mathematik und Mechanik (GAMM), Vol.8, No.1, December 2008, p. 10783-10794. First published Online 26 February 2009, DOI:10.1002/pamm200810783. Online ISSN:1617-7061.
137. Postolică V. - *A Survey on Pareto Efficiency in Infinite Dimensional Vector Spaces*. Foundations of Computing and Decision Sciences, Vol. 33, No. 3, 2008, p. 271-284, ISSN 0867-6356, Index 35830, The Publishing House of Poznań University of Technology, Poland.
  138. Piştea P., Postolică V. – *About Constancy of Natural Constants and the Universe Models*. Studii și Cercetări Științifice, Seria Matematică, Bacău, România, nr.18/2008, p. 221 – 232, ISSN 1224-2519.
  139. Postolică V. – *Approximate Efficiency in Infinite Dimensional Ordered Vector Spaces*. International Journal of Applied Management Science (IJAMS), Vol. 1, No. 3, 2009, p. 300 – 314, ISSN (Online): 1755-8921, ISSN (Print):1755 - 8913.
  140. Postolică V. – *Optimization and Applications: Abstract Spaces. Efficiency. Immediate Projections and Prospect*. Book published by Matrix Rom Publishing House, Bucharest, România, March,19 , 2009, ISBN 978-973-755-479-6.
  141. Postolică V. – *Efficiency and Recent Applications*. Invited Research Report and Poster presented at XVI International Congress on Mathematical Physics, Prague, Czech Republic, August 3 – 8, 2009. The Abstract published in the first volume containing Programme, Abstracts and the List of Participants, p.112.
  142. Postolică V. – *Efficiency and Multifunctions*. Plenary Talk presented at “Gheorghe Vrănceanu” International Conference on Mathematics and Informatics, Second Edition, ICMI 2, Bacău, Romania, September 8 - 10, 2009. Published in the corresponding Proceedings Volume Scientific Studies and Research, Series Mathematics and Informatics, Vol.19 (2009), no. 2, p. 415 – 436, ISSN 2067 - 3566.
  143. Postolică V. – *Efficiency in the Infinite Dimensional Ordered Vector Spaces (I)*. Invited Research Report presented at the Faculty of Mathematics and Computer Science, University of Lodz, Poland, October 13, 2009. To be published in Folia Mathematica, Faculty of Mathematics and Computer Science, Lodz University, Poland.
  144. Postolică V. – *Preferences under Efficiency*. Contributed Paper submitted for discussion at the 72<sup>nd</sup> Meeting of the European Working Group “Multiple Criteria Decision Aiding”, October 7 - 9, 2010, L’Ecole Centrale Paris, France.
  145. Postolică V. – *Isac’s Cones and Applications*. Research Report presented on Friday, June 25, 2010 at “Alexandru Myller” Mathematical Seminar Centennial Conference, June 21-26, 2010, Iași, România and, as a completed Research Work, at The National Conference with International Participation on Mathematics and Informatics “Gheorghe Vrănceanu” May 26-28, 2011, Bacău, România. Published by Inderscience Publishers in International Journal of Applied Management Science (IJAMS), Vol. 3, No. 4, 2011, p. 385 – 393, ISSN (online): 1755-8921,

- ISSN (print):1755 – 8913, DOI:10.1504/IJAMS 2011.042951.
146. Postolică V. – *A Survey on Theoretical and Applied Mathematics under the Efficiency*. Research Report presented at The 18<sup>th</sup> International Conference on Applied and Industrial Mathematics, October 14 – 17, 2010, Iași, România. Published in Global Journal of Science Frontier Research, Global Journals Inc. (USA) ,Volume 10, Issue 7, Version 1.0, November 2010, p. 53 – 81, ISSN: 0975 – 5896.
  147. Postolică V. – *The Romanian Mathematics Education 2010-2011*. Research Report setted forth as Virtual Presentation (Paper ID: 199. Session: *Experiences in Education. New projects and innovations*) at the International Technology, Education and Development Conference, Valencia (Spain) 7 – 9 March, 2011. Published in INTED2011 Proceedings CD edited by L. Gómez Chova, I. Candel Torres, A. López Martínez, International Association of Technology, Education and Development IATED, Valencia, Spain, pp. 3375-3385, ISBN: 978-84-614-7423-3.
  148. Postolică V. – *A Class of Optimal Splines mixed up in Multicriteria Evaluation and Related Topics*. Research work submitted for discussions in Session 6 entitled "Decision Models and Parameters Elicitation" at The 73<sup>nd</sup> Meeting of EWG-MCDA (The European Working Group "Multiple Criteria Decision Aiding"), University of Corsica, Corte, France, April 14 – 16, 2011.
  149. Postolică V. – *Efficiency under Isac's Cones*. Research paper submitted to The 82<sup>nd</sup> Annual Meeting of the International Association of Applied Mathematics and Mechanics (GAMM), Graz University of Technology, Graz, Austria, April 18 – 21, 2011.
  150. Postolică V., Garrido A. – *Modern Optimization*. Book published in English by Matrix Rom Publishing House, Bucharest, România, April 15, 2011, ISBN 978-973-755-697-4.
  151. Postolică V. – *Efficiency following the Ordering Cones*. Invited Plenary Talk presented at the MCDM2011 Pre - Conference Seminar, Aalto School of Economics, Helsinki, Finland, Saturday, 11 June, 14<sup>00</sup>, 2011.
  152. Postolică V. – *Efficiency under Isac's Cones and Extensions*. Invited Research Report presented inside of Discussion Session Programme (Monday, June 13, 2011, Room Alfa, 18<sup>00</sup>) of The 21<sup>st</sup> International Conference on Multiple Criteria Decision Making (MCDM2011), University of Jyväskylä, Finland, June 13 – 17, 2011 and to The Seventh Congress of Romanian Mathematicians, June 29 – July 5, 2011, Brașov, Romania (Wednesday, June 29, 2011, Section VII:Theoretical Computer Science, Operations Research and Mathematical Programming, Room H6, 17<sup>50</sup>).
  153. Postolică V. – *On the Equilibria of Generalized Dynamical Systems*. Invited Research Report presented inside the Session entitled "Dynamical systems, jets Theory and their Applications; quadratic Dynamical Systems" of The 19<sup>th</sup> International Conference on Applied and Industrial Mathematics (CAIM 2011) at "Ion Ionescu de la Brad" University of Iași, Romania, September 22 – 25, 2011. Published in Axioms (December 2012), vol.1, issue 3, 384-394; doi:10.3390/axioms1030384, ISSN(online): 2075-1680, <http://www.mdpi.com/2075-1680/1/3/384>.
  154. Postolică V. – *Efficiency and Extensions in Infinite Dimensional Ordered Vector Spaces*. Published by International Scientific Press in Theoretical Mathematics



- &Applications, Vol. 2, No. 1, 2012, p. 35-79, ISSN(online): 1792 – 9709, ISSN(print): 1792 – 9687.
155. Postolică V. – *Applied Mathematics: Mathematical Analysis. Immediate Applications and Views. Lectures for Engineering students*. Book published by Alma Mater Publishing House, Bacău, România, January 16, 2012, ISBN 978-606-527-157-9/2011.
  156. Postolică V. – *General Equilibria*. Research Work prepared for the The first International Conference on Moldavian Risks – From Global to Local Scale - RiskMold2012, 16 – 19 May, 2012, Bacău, Romania. Contributed paper submitted for discussion at the 76<sup>th</sup> Meeting of the European Working Group”Multiple Criteria Decision Aiding”, University of Portsmouth, Business School, UK, 13<sup>th</sup> – 15<sup>th</sup> September, 2012. Published online, as Original Research Article, in British Journal of Mathematics & Computer Science (BJMCS), Vol. 4, Issue 8, 16-30 April, 2014, ISSN 2231-0851, p.1048 - 1073, DOI:10.9734/BJMCS/2014/5967.
  157. Postolică V. – *Isac’s Cones in General Vector Spaces*. Invited Research Report at The 6<sup>th</sup> European Congress of Mathematics (Satellite Thematic Session: Geometric Methods in Calculus of Variations), Krakow, Poland, July 2 -7, 2012. The completed version published as Chapter 121, Category: Statistics, Probability, and Predictive Analytics, vol.3, p.1323-1342, in Encyclopedia of Business Analytics and Optimization – 5 Vols. (Ed. [John Wang, PhD.](#), Montclair State University, USA.), IGI Global, ISBN: 978-1-4666-5202-6(hardcover); 978-1-4666-5203-3(ebook); 978-1-4666-5205-7(print&perpetual access); DOI: 10.4018/978-1-4666-5205-7; © 2014; 2754 pages..
  158. Postolică V. – *Efficiency by Mathematics*. Invited Research Report submitted for presentation to the United Nations Conference on the World Financial and Economic Crisis and Its Impact on Development, 23-26 April, 2013 at the International Conference Center London, United Kingdom and accepted in the Technical Session on “Accounting & Financial regulations”, 25<sup>th</sup> April 2013, 11:40. Exposed, in a completed form, at the 8<sup>th</sup> edition of “Gheorghe Vrănceanu” National Conference on Mathematics and Informatics, May 31<sup>th</sup>, 2013, “Vasile Alecsandri” University o Bacău, Faculty of Sciences, Department of Mathematics, Informatics and Educational Sciences. Scientific Studies and Research, Series Mathematics and Informatics, Vol. 23 (2013), No. 1, p. 151 – 160.
  159. Postolică V. – *Isac’s Cones at Various Topologies*. Invited Research Report represented inside the Special Session *Mathematical Finance, Stochastic Analysis and Partial Differential Equations Programme* Friday, June 2013, Room A5, Building C, 11<sup>30</sup>-12<sup>20</sup>, with its Abstract included in the Program Abstracts of the Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society,”1 Decembrie 1918” University of Alba Iulia, June 27 – 30, 2013, Alba Iulia, Romania. Int. J. Data Science, Vol. 1, No. 1, 2015, p. 73 – 83, DOI:10.1504/IJDS2015.069048.
  160. Postolică V. – *Necessary Incursions in Didactic Mathematics*. Book published by Matrix Rom Publishing House, Bucharest, România, September 15, 2013, ISBN 978–973–755–992–0.
  161. Postolică V., Nechita E., Lupu C. – *The Romanian Mathematics and Informatics*

- Education*. Published online, as Original Research Article, in British Journal of Education, Society & Behavioural Science (BJESBS), Vol. 4, Issue 2, February, 2014, p. 226 – 240, ISSN 2278-0998.
162. Postolică V. – *Selected Questions on the Efficiency*. Invited research work presented at the Workshop on Innovative, Multidisciplinary Research between Bacău and Lugano - *Teaching Informatics for a Sustainable Society* inside Swiss-Romanian Cooperation Programme, May 12, 2014.
  163. Postolică V., Dumitriu Gh. – *A Mathematical Model for Performance and Risk in the Science Education*. Invited research work presented at the Second International Conference on Natural and Anthropogenic Risks (ICNAR), in Section 5 entitled “Educational and Social Risk”, Room DP12 (Building D) -5 June 2014, 15<sup>00</sup>, Bacău, Romania. The abstract published in the corresponding electronic and printed Volume of the Abstracts (ISSN 2360-4018), p. 210. Published in the North American Open Educational Research Journal, Vol.1, No.1, November 2014, pp. 1 – 5. Available online at <http://narpub.com/Journals.php>.
  164. Postolică V. – *An Introduction to Trigonometry and its Applications*. Book Published by Bentham Science Publishers, DOI:10.2174/97816080595081140101, e-ISBN: 978-1-60805-950-8, 2014; Print ISBN: 978-1-60805-951-5.
  165. Postolică V. – *A Coincidence between the General Efficiency and the Approximate Dominance*. Invited and presented plenary talk (Saturday, September 20, 11<sup>20</sup>-12<sup>00</sup>) at the 22<sup>nd</sup> Conference on Applied and Industrial Mathematics (CAIM 2014) Bacău, Romania, September, 18-21, 2014. ROMAI Journal, Vol. 10, No. 2/2014, p. 101 – 120.
  166. Postolică V., Lupu C. – *Euclidean Geometry and Computers*. Published online, as Original Research Article, in the International Journal of Applied Science and Mathematics (IJASM), Vol. 2, Issue 1, Jan. – Feb., 2015, p. 1 – 6, ISSN (Online): 2394 – 2894.
  167. Postolică V. – *Sequences in Applied Mathematics*. Book published by Matrix Rom Publishing House, Bucharest, România, February 15, 2015, ISBN 978-606-25-0131-0.
  168. Postolică V. – *Isac’s Cones*. Invited Research Report presented at The Eighth Congress of Romanian Mathematicians, Section 5: Functional Analysis, Operator Theory and Operator Algebras, Mathematical Physics, Iași, România, June 26<sup>th</sup> – July 1<sup>st</sup>, 2015. The Abstract published in the Programme and the Abstract Book, p. 107. Research work published as Original Research Article in British Journal of Applied Science & Technology, 15(4): 1-8, 2016, Article no.BJAST.24007, ISSN 2231-0843, NLM ID:101664541 DOI:10.9734/BJAST/2016/24007.
  169. Postolică V. – *Efficiency in the Infinite Dimensional Ordered Vector Spaces (II)*. Invited and presented plenary talk (Saturday, September 19 (10<sup>20</sup>-11<sup>00</sup>) at the 23<sup>rd</sup> Conference on Applied and Industrial Mathematics (CAIM 2015) Suceava, Romania, September, 17-20, 2015. Published in ROMAI Journal, Vol. 11, no. 2/2015, p. 25 – 49.
  170. Postolică V., Lupu C. – *Cognitive Organizational Elements used in the Designed Heuristic Training Strategies*. Invited research work presented at the National Conference ”Advertising, Education, Development, Orientation”- CEDO 2015, “Vasile Alecsandri” University of Bacău, Romania, 7 - 9 October, 2015.
  171. Postolică V. – *General Efficiency and Global Optimization*. Book published

by Matrix Rom Publishing House, Bucharest, România, March 20, 2016, ISBN 978-606-25-0232-4.

172. Postolică V., Lupu C. – *Educational Efficiency by Gradual Performances*. Research work accepted for publication in the International Educational Scientific Research Journal (IESRJ, E - ISSN: 2455-295X) on Tuesday, May 31, 2016. Published in IESRJ, Vol. 2, Issue 6, June 2016, p. 95 – 96.

173. Postolică V. – *General Efficiency (I) and Applications*. Invited and presented Conference (May 10, 2016: 11.30, tendrá lugar en el Aula Luis Rodriguez Marin Sala 2.32 E.T.S.I. Industriales c/ Juan del Rosal 12, Ciudad Universitaria) inside the Staff Mobility for Teaching, Erasmus+ Programme, Universidad Nacional de Educación a Distancia (UNED), Madrid, Spain, May 07 – 14, 2016.

174. Postolică V. – *General Efficiency (II)*. Invited research work at the 7<sup>th</sup> European Congress of Mathematics, July 18 – 22, 2016, TU Berlin, Germany. Presented in the Contributed Session 16, CS-16-B: “*Optimization and Control*” on Tuesday, July 19, 2016, 10:40. The Abstract published in the Book of Abstracts, p. 606. Published as Research Paper in IOSR Journal of Mathematics (IOSR-JM) e-ISSN:2278-5728, p-ISSN: 2319-765X, Volume 13, Issue 2 Ver I (Mar.-Apr. 2017), pp. 79-94, DOI: 10.9790/5728-1302017994 provided by Cross Ref, USA, www.iosrjournals.org.

175. Postolică V. – *Open Problems in the General Efficiency*. Invited and presented plenary talk at the 24<sup>th</sup> Conference on Applied and Industrial Mathematics (CAIM 2016), Craiova, Romania, September,15-18, 2016. Published in ROMAI Journal, Vol. 12, no. 2/2016, p. 117 – 141.

176. Postolică V. – *Selected Open Problems in Vectorial Optimization*. Invited research work at the 9<sup>th</sup> Edition of “Gheorghe Vrănceanu” Conference on Mathematics and Informatics, December 6<sup>th</sup> 2016, “Vasile Alecsandri” University of Bacău, Faculty of Sciences, Romania. Published in Scientific Studies and Research, Series Mathematics and Informatics, Vol. 27 (2017), No.1, p. 101 -112, “Vasile Alecsandri” University of Bacău, Faculty of Sciences, Romania.

177. Postolică V. – *Efficiency and Vectorial Optimization*. Session chair and expert speech (Sunday, September 03) at the 5<sup>th</sup> International Multi – Disciplinary Conference organized by Institute of Research Engineers and Doctors - IRED, USA September 02 – 03, 2017, Zurich, Switzerland. Published in International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Vol. 6, No. 2, p. 41 – 65, 2018. <http://dx.doi.org/10.20431/2347-3142.0602004>.

178. Postolică V. – *A Survey on the Best Approximation by Splines*. Invited and presented plenary talk (Saturday, September 16) at the 25<sup>th</sup> Conference on Applied and Industrial Mathematics (CAIM 2017), Iași, Romania, September 14 - 17, 2017.

179. Postolică V. – *Equilibria by Fixed Points*. Invited research work at the 10<sup>th</sup> Edition of “Gheorghe Vrănceanu” National Conference on Mathematics and Informatics, December 8<sup>th</sup>, 2017, “Vasile Alecsandri” University of Bacău, Faculty of Sciences, Romania.