TOPICAL LIST OF THE ORIGINAL RESEARCH PAPERS AND BOOKS

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- 122. Postolică V. Recent Results on Pareto Efficiency in Infinite Dimensional Vector Spaces. Research Work Communicated at the 2nd 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 Neamţ County, România, April 20, 2007.
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- 126. Postolică V. *Efficiency or/and Optimization*. Invited Lecture presented to The 9th National Conference on Mathematical Analysis and Applications (CAMA'07), University "Al. I. Cuza" Iaşi, România, October 26 27, 2007. To appear in An. Şt. Univ. "Al. I. Cuza" Iaşi, România.
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- 138. Piştea P., Postolică V. *About Constancy of Natural Constants and the Universe Models*. Studii şi Cercetări Ştiinţifice, Seria Matematică, Bacău, România, nr.18/2008, p. 221 232, ISSN 1224-2519.
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- 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.
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- 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,

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- 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 73nd 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 82nd 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.
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- 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, 18⁰⁰) of The 21st 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, Braşov, Romania (Wednesday, June 29, 2011, Section VII:Theoretical Computer Science, Operations Research and Mathematical Programming, Room H6, 17⁵⁰).
- 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 19th 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.
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- &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 76th Meeting of the European Working Group"Multiple Criteria Decision Aiding", University of Portsmouth, Business School, UK,13th 15th 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 6th 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..
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- 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, 11³⁰-12²⁰, 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

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- 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 Anthropic Risks (ICNAR), in Section 5 entitled "Educational and Social Risk", Room DP12 (Building D) -5 June 2014, 15⁰⁰, 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.
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- 165. Postolică V. *A Coincidence between the General Efficiency and the Approximate Dominance*. Invited and presented plenary talk (Saturday, September 20, 11²⁰-12⁰⁰) at the 22nd 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 26th July 1st, 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 (10²⁰-11⁰⁰) at the 23rd 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

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- 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 7th 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 24th 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 9th Edition of "Gheorghe Vrănceanu" Conference on Mathematics and Informatics, December 6th 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 speach (Sunday, September 03) at the 5th 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 25th Conference on Applied and Industrial Mathematics (CAIM 2017), Iași, Romania, September 14 17, 2017. Published in ROMAI Journal, Vol. 13, no. 2(2017), p. 117 141.
- 179. Postolică V. *Equilibria by Fixed Points*. Invited research work at the 10th Edition of "Gheorghe Vrănceanu" National Conference on Mathematics and Informatics, December 8th, 2017, "Vasile Alecsandri" University of Bacău, Faculty of Sciences, Romania. Published in Scientific Studies and Research, Series Mathematics and Informatics, Vol. 27 (2017), No.2, p. 59 64, "Vasile Alecsandri" University of Bacău, Faculty of Sciences, Romania.
- 180. Postolică V. *Optimality in Vector Spaces*. Invited and presented research work at the 6th International Symposium on Computational and Business Intelligence Basel, Switzerland (ISCBI 2018, August 27-29, 2018) inside the Session I." *Intelligent Algorithm Design and Optimization*" August 28, 2018: 02:15 p.m.-02:30 p.m. Official

member of the International Program Committee at ISCBI 2018 and Chair of the Session IV "Advanced Information Technology and Applications" August 28, 2018: 03:45 p.m.-05:40 p.m. Published in the Proceedings entitled "2018 6th International Symposium on Computational and Business Intelligence (ISCBI)", p.1-4 of Session I: "Intelligent Algorithm Design and Optimization", IEEE, following IEEE Xplore from 11 February, 2019, DOI: 10.1109/ISCBI.2018.00011.

181. Postolică V. – *Splines for the Set Functions*. Submitted as Plenary talk at the 26th Conference on Applied and Industrial Mathematics (CAIM 2018), Chişinău, Moldova, September 20 - 23, 2018. Published in the Scientific Studies and Research, Series Mathematics and Informatics, Vol. 28(2018), No.1, p. 109 - 114, "Vasile Alecsandri" University of Bacău, Faculty of Sciences, Romania.

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