

Lista de Lucrări

Cărți

- 1) A. Croitoru, M. Durea, C. Văideanu – [Analiza Matematica. Probleme](#), Editura Tehnopress, Iasi, 2005.
- 2) A. Croitoru - [Elemente din Teoria Masurii](#), Editura Tehnopress, Iasi, 2005.
- 3) *Integrala multivoca de tip Dunford* (p.329-357) in vol – [Directii moderne in Analiza Multivoca si Teoria Optimizarii](#) (A.M. Precupanu, T. Precupanu, M. Turinici, N. Apreutesei Dumitriu, C. Stamate, B.R. Satco, C. Vaideanu, G. Apreutesei, D. Rusu, A.C. Gavrilit, M. Apetrii, coordinator – A. Croitoru), Casa de Editura Venus Iasi, 2006.
- 4) A. Croitoru, A. Gavriliuț – [Serii numerice. Probleme](#), Casa de Editura Venus Iasi, 2007.
- 5) A. Croitoru – [Integrale in raport cu Multimasuri](#), Editura Performantica, Iasi, 2010.
- 6) A. Croitoru, M. Durea, C. Văideanu – [Probleme de Analiza Matematica, I- Calcul Diferential in R](#), Editura PIM, Iasi, 2010.
- 7) A. Croitoru, A. Gavriliuț, C. Vaideanu – [Serii numerice. Siruri de functii. Serii de functii](#), Editura “Alexandru Myller” Iasi, 2012.

Articole

1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact

- 1.1.** Gavrilit A., Croitoru A. - *Non- atomicity for fuzzy and non-fuzzy multivalued set functions*, Fuzzy Sets and Systems, 160 (2009), 2106-2116.
- 1.2.** Gavrilit A., Croitoru A. - *Pseudo- atoms and Darboux property for set multifunctions*, Fuzzy Sets and Systems, 161 (2010), 2897–2908.
- 1.3.** Precupanu A., Gavrilit A., Croitoru A.- *A fuzzy Gould type integral*, Fuzzy Sets and Systems, 161 (2010), 661-680.
- 1.4.** Godet-Thobie C., Croitoru A. - *A Radon-Nikodym type theorem*, An. St. Univ. Ovidius Constanta, vol. 19 (1), 2011, 145-160.
- 1.5.** Croitoru A. - *Fuzzy integral of measurable multifunctions*, Iranian Journal of Fuzy Systems, Vol. 9, No. 4 (2012), 133-140.

- 1.6.** Croitoru A., Gavrilut A. - *Set-norm exhaustive set multifunctions*, Iranian Journal of Fuzzy Systems, Vol. 10, No.1 (2013), 123-134.
- 1.7.** Croitoru A. - *Strong integral of multifunctions relative to a fuzzy measure*, Fuzzy Sets and Systems, 244 (2014), 20-33. DOI: 10.1016/j.fss.2013.10.004.
- 1.8.** Croitoru A. - *Convergences and topology via sequences of multifunctions*, Information Sciences, 282 (2014), 250-260.
- 1.9.** Gavrilut A., Iosif A., Croitoru A. - *The Gould integral in Banach lattices*, Positivity (2014), DOI: 10.1007/s11117-014-0283-7.
- 1.10.** Croitoru A., Gavrilut A. - *Comparison between Birkhoff integral and Gould integral*, Mediterranean J. Math. (2014), DOI: 10.1007/s0009-014-0410-5.

3. Articole științifice publicate *in extenso* în reviste indexate BDI

- 3.1.** Croitoru A. - *A set-valued integral*, Analele Stiintifice ale Univ. Al.I.Cuza Iasi, 44, 1998, 101-112.
- 3.2.** Croitoru A. - *A Radon-Nikodym theorem for multimeasures*, Analele Stiintifice ale Univ. Al.I.Cuza Iasi, 44, 1998, 395-402.
- 3.3.** Precupanu A.M., Croitoru A. - *A Gould type integral with respect to a multimeasure. I*, Analele Stiintifice ale Univ. Al.I. Cuza Iasi, 48, 2002, 165-200.
- 3.4.** Croitoru A. - *An integral for multifunctions with respect to a multimeasure*, Analele Stiintifice ale Univ. Al.I. Cuza Iasi, 49, 2003, 95-106.
- 3.5.** Precupanu A.M., Croitoru A. - *A Gould type integral with respect to a multimeasure. II*, Analele Stiintifice ale Univ. Al.I. Cuza Iasi, 49, 2003, 183-207.
- 3.6.** Croitoru A. - *On a set-valued integral*, Carpathian J. Math. 19, 2003, 41-50.
- 3.7.** Croitoru A., Godet-Thobie C. - *Set-valued integration in seminorm.II*, Analele Stiintifice ale Univ.Ovidius Constanta, 13, 2005, 55-66.
- 3.8.** Croitoru A. - *Multivalued version of Radon-Nikodym theorem*, Carpathian J. Math. 21, 2005, 27-38.
- 3.9.** Croitoru A., Godet-Thobie C. - *Set-valued integration in seminorm. I*, Annals of University of Craiova, Math. Comp. Sci Ser. 33, 2006, 16-25.

- 3.10.** Croitoru A. - *Lebesgue type convergence theorems*, Studia Univ. Babes-Bolyai, Mathematica 52, 2007, 39-50.
- 3.11.** Croitoru A., Vaideanu C. - *About pointwise measurable multifunctions*, Analele Univ. de Vest Timisoara, 45(2007), 189-194.
- 3.12.** Gavrilut A., Croitoru A. - *An extension by preserving non-atomicity of set multifunctions*, Buletinul Institutului Politehnic din Iasi, Sectia Matematica. Mecanica teoretica. Fizica, Tomul LIII (LVII), Fasc. 5, 2007, 111-119.
- 3.13.** Gavrilut A., Croitoru A. – *On the Darboux property in the multivalued case*, Annals of the University of Craiova, Mathematics and Computer Sciences 35 (2008), 130-138.
- 3.14.** Croitoru A., Gavrilut A., Mastorakis N.E. – *On different types of non-additive set multifunctions*, WSEAS Transactions on Mathematics 8 (2009), 246-257.
- 3.15.** Croitoru A., Vaideanu C. – *On pointwise measurability of multifunctions*, An. St. Univ. Ovidius Constanta 17 (2009), Fasc. 1, 69-76.
- 3.16.** Croitoru A., Gavrilut A. – *On order-continuous set multifunctions in Hausdorff topology*, Matematychni Studii 31 (2009), 149-156.
- 3.17.** Apreutesei G., Mastorakis N.E., Croitoru A., Gavrilut A. – *On the translation of an almost linear topology*, WSEAS Transactions on Mathematics 8 (2009), 479-488.
- 3.18.** Gavrilut A., Croitoru A., Mastorakis N.E. – *Measurability and Gould integrability in finitely purely atomic multisubmeasure spaces*, WSEAS Transactions on Mathematics 8 (2009), 435-444.
- 3.19.** Croitoru A., Gavrilut A. – *Properties of non-additive set multifunctions*, An. Univ. din Timisoara, Seria Matematica-Informatica 47 (2009), 9-20.
- 3.20.** Croitoru A., Gavrilut A., Mastorakis N.E. – *Convergence theorems for totally-measurable functions*, WSEAS Transactions on Mathematics Volume 8, Issue 10 (2009), 614-623.
- 3.21.** Gavrilut A., Croitoru A., Mastorakis N.E. – *Diffusion and semi-convexity of fuzzy set multifunctions*, WSEAS Trans. on Math. 9 (2010), 561-570.
- 3.22.** Gavrilut A., Croitoru A. – *Convergence theorems for a (set-valued) fuzzy integral*, Aplimat Journal of Applied Mathematics, Vol. 3 (2010), Number 1, 221-231.
- 3.23.** Gavrilut A., Croitoru A. – *L_p -spaces generated by a fuzzy Gould integral*, Aplimat Journal of Applied Mathematics, Vol. 3 (2010), Number 1, 233-243.
- 3.24.** Croitoru A. – *Set-norm continuity of set multifunctions*, Romai Journal 6, 1 (2010), 47-56.

4. Articole științifice publicate *in extenso* în volumele conferințelor

4.1. Gavrilut A., Croitoru A. - *Fuzzy multisubmeasures and applications*, Proceedings of The 9-th WSEAS International Conference on Fuzzy Systems (FS 08), 113-119.

4.2. Croitoru A., Gavrilut A. - *A Gould type set valued integral*, Proceedings of 6-th Congres of Romanian Mathematicians, June 28-july 4, 2007, Bucharest, Romanian Academy Publishing House, 2008.

4.3. Mastorakis N.E., Gavrilut A., Croitoru A., Apreutesei G. - *On Darboux property of fuzzy multimeasures*, Proceedings of the 10th WSEAS International Conference on Fuzzy Systems (FS'09), Prague, Czech Republic, March 23-25, 2009, 54-58.

4.4. Apreutesei G., Mastorakis N.E., Croitoru A., Gavrilut A. - *Topological properties for the translation of a non-linear topology*, Proceedings of the 8-th WSEAS International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC'09), Tenerife, Canary Islands, Spain, July 1-3, 2009, 305-309.

4.5. Croitoru A., Gavrilut A., Mastorakis N.E. - *On different types of convergences for sequences of totally-measurable functions*, Proceedings of the 9-th WSEAS International Conference on Simulation, Modelling and Optimization (SMO'09), Budapest, Hungary, Sept. 3-5, 2009, 196-200.

4.6. Gavrilut A., Croitoru A., Mastorakis N.E. - *Continuity properties of fuzzy set multifunctions*, Proceedings of the 9-th WSEAS International Conference on Simulation, Modelling and Optimization (SMO'09), Budapest, Hungary, Sep. 3-5, 2009, 201-206.

4.7. Gavrilut A., Croitoru A., Mastorakis N.E. - *Finitely purely (pseudo)atomic set multifunctions*, Proceedings of the European Computing Conference (ECC' 09)/3rd International Conference on Computational Intelligence (CI 09), Tbilisi, Georgia, June 26-28, 2009, 103-108.

4.8. Croitoru A., Gavrilut A. - *Pseudo-atoms of fuzzy multisubmeasures*, Proceedings of ICMI-2 (2009), V. Alecsandri Univ. of Bacau, Faculty of Sciences, Scientific Studies and Research, Series Mathematics and Informatics, 19(2009), 185-196.

4.9. Gavrilut A., Croitoru A. - *On totally-measurable functions*, Proceedings of ICMI-2 (2009), V. Alecsandri Univ. of Bacau, Faculty of Sciences, Scientific Studies and Research, Series Mathematics and Informatics, 19(2009), 275-288.

4.10. Croitoru A. - *Fuzzy integrability of multifunctions*, Proceedings of the 4th WSEAS International Conference on Computational Intelligence(CI'10), Bucharest, Romania, April 20-22, 2010, 80-84.

4.11. Gavrilut A., Croitoru A., Mastorakis N.E. - *Fuzzy diffused set multifunctions*, Proceedings of the 4th WSEAS International Conference on Computational Intelligence(CI'10), Bucharest, Romania, April 20-22, 2010, 148-153.

4.12. Gavrilut A., Croitoru A., Mastorakis N.E. - *Null-additive fuzzy set multifunctions*, Recent Advances in Neural Networks, Fuzzy Systems and Evolutionary Computing, Proceedings of the 11-th WSEAS International Conference on Fuzzy Systems (FS'10), "G. Enescu" University, Iasi, Romania, June 13-15, 2010, 225-229.

4.13. Gavrilut A., Croitoru A. - *About L-infinity space for fuzzy measures*, Recent Researches in Neural Networks, Fuzzy Systems, Evolutionary Computing & Automation, Proceedings of the 12-th WSEAS International Conference on Fuzzy Systems (FS'11), Brasov, Romania, April 11-13, 2011, 88-91.

4.14. Croitoru A. - *On a non-linear integral of multifunctions with respect to a fuzzy measure*, Recent Researchers in Computational Techniques, Non-Linear Systems & Control (Proceedings of the 10-th WSEAS International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos, NOLASC'11), Iasi, Romania, July 1-3, 2011, 79-84.

4.15. Stamate C., Croitoru A. - *Scalar and vector fuzzy integrals for vector multifunctions*, Advances in Neural Networks, Fuzzy Systems and Artificial Intelligence, Proceedings of the 15-th International Conference on Fuzzy Systems (FS'14), Gdansk, Poland, May 15-17, 2014, pp. 202-208, Recent Advances in Computer Engineering Series, 21, 2014.

4.16. Croitoru A., Mastorakis N. - *Estimations, convergences and comparisons on fuzzy integrals of Sugeno, Choquet and Gould type*, Proceedings of the 2014 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), July 6-11, 2014, Beijing, China, pp.1205-1212.

4.17. Bors D.M., Croitoru A. - *Properties of weak linear spaces*, Proceedings of Mathematical Methods & Computational Techniques in Science & Engineering (MMCTSE) Athens, Greece, November 28-30, 2014.

4.18. Croitoru A., Apreutesei G., Mastorakis N.E. - *Set-norm variation of set-multifunctions*, Recent Researches in Applied Mathematics and Economics, Proceedings of the 6-th International Conference on Applied Mathematics, Simulation, Modelling (ASM'12), Vouliagmeni Beach, Athens, Greece, March 7-9, 2012, 15-19.

4.19. Croitoru A. - *Properties of measurable multifunctions relative to a fuzzy measure*, Latest Advances in Information Science, Circuits & Systems, Proceedings of the 13-th WSEAS International Conference on Fuzzy Systems (FS'12), Iasi, Romania, June 13-15, 2012, 62-66.

4.20. Apreutesei G., Croitoru A., Mastorakis N.E. - *Totally boundedness and compactness on semilinear topological spaces*, Recent Researches in Automatic Control, Systems Science and Communications, Proceedings of the 11-th WSEAS International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC'12), Porto, Portugal, July 1-3, 2012.

- 4.21.** Croitoru A., Apreutesei G., Muhammad M.A.S. Mahmoud – *Fuzzy convergences of multifunctions*, Recent Advances in Systems Science & Mathematical Modelling, Proceedings of MMES'12, Paris, France, December 2-4, 2012, 139-143.
- 4.22.** Croitoru A., Vaideanu C.- *Pointwise measurable multifunctions*, Mathematical Methods for Information Science & Economics, Proceedings of AMATH'12, Montreux, Switzerland, December 29-31, 2012, 37-42.
- 4.23.** Stamate C., Croitoru A.- *Non-linear integrals, properties and relationships*, Recent Advances in Telecommunications, Signals and Systems, Proceedings of NOLASC' 13, Lemesos, Cyprus, March 21-23, 2013, Recent Advances in Electrical Engineering Series, 10 (2013), 118-123.
- 4.24.** Stamate C., Croitoru A.- *Convergence results for sequences of non-linear integrals*, Recent Advances in Computer Science and Applications, Proceedings of FS'13, Valencia, Spain, August 6-8, 2013, Recent Advances in Computer Engineering Series, 15 (2013), 76-81.
- 4.25.** Stamate C., Croitoru A. – *Properties of different nonlinear integrals of multifunctions*, Recent Advances in Electrical Engineering, Proceedings of the 13-th International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC'14), WSEAS Press, 2014, pp. 16-20.

Lector Dr. Anca Croitoru