

Lista de lucrări

Cărți

- 1) **A. Gavriluț** – [Proprietăți de Regularitate a Multifuncțiilor de Multime](#), Editura Venus, Iași, 2006, ISBN: 973-756-045-0; 978-973-756-045-2.
- 2) A. Croitoru, **A. Gavriluț** – [Serii numerice. Probleme](#), Editura Venus, Iași, 2007, ISBN: 978-973-756-056-8.
- 3) A. Croitoru, **A. Gavriluț**, C. Văideanu – [Serii numerice. Șiruri de funcții. Serii de funcții](#), Editura “Alexandru Myller” Iași, 2012, ISBN: 978-973-88565-6-1.
- 4) **A. Gavriluț** – [Regular Set Multifunctions](#), Editura PIM, Iași, 2012, ISBN: 978-606-13-0827-9.
- 5) M. Agop, **A. Gavriluț** – [O Abordare Matematică în Dinamica Sistemelor Complexe](#), Editura ArsLonga, Iași, 2013, ISBN: 978-973-148-152-4.

Capitole de cărți

- 1) [Multisubmăsurii Regulate](#) – capitol în cartea [Direcții Moderne în Analiza Multivocă și Teoria Optimizării](#), A.M. Precupanu, T. Precupanu, M. Turinici, N. Apreutesei Dumitriu, C. Stamate, B.R. Satco, C. Văideanu, G. Apreutesei, D. Rusu, **A.C. Gavriluț**, M. Apetrii (coordonator A. Croitoru), Editura Venus, Iași, 2006, ISBN: 973-756-029-9, 978-973-756-029-2.
- 2) [Implications of quantum informational entropy in some fundamental physical and biophysical models](#) – capitol în cartea [Quantum Mechanics](#), M. Agop, **A. Gavriluț**, C. Gh. Buzea, L. Ochiuz, D. Tesloianu, G. Crumpei, C. Popa, IntechOpen, 2015.
- 3) [Possible correlations among physical frames and quantum mechanics. On wave-information-corpusele triad and cellular neural networks via non-differentiability](#), M. Agop, **A. Gavriluț**, D. Vasincu, D. Timofte, G. Crumpei – capitol în cartea [Horizons in World Physics](#), Vol. 285, Nova Science Publisher, 2015.

Articole

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

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- 1.2. **Gavriliuț A.**, *Non-atomicity and the Darboux property for fuzzy and non-fuzzy Borel/Baire multivalued set functions*, Fuzzy Sets and Systems, 160 (2009), 1308-1317.
- 1.3. **Gavriliuț A.**, Croitoru A., *Non- atomicity for fuzzy and non-fuzzy multivalued set functions*, Fuzzy Sets and Systems, 160 (2009), 2106-2116.
- 1.4. **Gavriliuț A.**, *A Lusin type theorem for regular monotone uniformly autocontinuous set multifunctions*, Fuzzy Sets and Systems, 161 (2010), 2909–2918.
- 1.5. **Gavriliuț A.**, *Regularity and autocontinuity of set multifunctions*, Fuzzy Sets and Systems, 161 (2010), 681-693.
- 1.6. **Gavriliuț A.**, Croitoru A., *Pseudo- atoms and Darboux property for set multifunctions*, Fuzzy Sets and Systems, 161 (2010), 2897–2908.
- 1.7. **Gavriliuț A.**, *The general Gould integral with respect to a multisubmeasure*, Mathematica Slovaca 60 (2010), No. 3, 289-318.
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- 1.10. Precupanu A., **Gavriliuț A.**, *A set-valued Egoroff type theorem*, Fuzzy Sets and Systems, 175 (2011), 87-95.
- 1.11. **Gavriliuț A.**, *Continuity properties and Alexandroff theorem in Vietoris topology*, Fuzzy Sets and Systems, 194 (2012), 76-89.
- 1.12. Precupanu A., **Gavriliuț A.**, *Set-valued Lebesgue and Riesz type theorems*, An. St. Univ. Iasi, 2013, Vol. LIX, f.1, DOI: 10.2478/v10157-012-0028-5, 113-128.

- 1.13. **Gavriliuț A.**, *Abstract regular null-null-additive set multifunctions in Hausdorff topology*, An. St. Univ. Iasi, 2013, Vol. LIX, Issue 1, 129–147.
- 1.14. **Gavriliuț A.**, *Alexandroff theorem in Hausdorff topology for null-null-additive set multifunctions*, An. St. Univ. Iasi, 2013, Vol. LIX, Issue 2, 237–251.
- 1.15. Precupanu A., **Gavriliuț A.**, *Pseudo-convergences of sequences of measurable functions on monotone multimeasure spaces*, An. St. Univ. Iasi, 2013, Vol. LVIII, Issue 1, 67–84.
- 1.16. Precupanu A., **Gavriliuț A.**, *Set-valued Lusin type theorem for null-null-additive set multifunctions*, Fuzzy Sets and Systems, 204 (2012), 106-116.
- 1.17. **Gavriliuț A.**, *On the regularities of fuzzy set multifunctions with applications in variation, extensions and fuzzy set-valued integrability problems*, Information Sciences, 224 (2013), 130-142.
- 1.18. **Gavriliuț A.**, *Remarks on monotone interval-valued set multifunctions*, Information Sciences, 259 (2014), 225-230.
- 1.19. Croitoru A., **Gavriliuț A.**, *Set-norm exhaustive set multifunctions*, Iranian Journal of Fuzzy Systems, Vol. 10, No.1 (2013), 123-134.
- 1.20. **Gavriliuț A.**, Iosif A., Croitoru A. - *The Gould integral in Banach lattices*, Positivity (2014), DOI: 10.1007/s11117-014-0283-7.
- 1.21. Croitoru A., **Gavriliuț A.** - *Comparison between Birkhoff integral and Gould integral*, Mediterranean J. Math. (2014), DOI: 10.1007/s0009-014-0410-5.
- 1.22. Agop M., **Gavriliuț A.**, Crumpei G., Doroftei B., *Informational Non-Differentiable Entropy and Uncertainty Relations in Complex Systems*, Entropy 2014, 16 (11), 6042-6058, DOI: 10.3390/e16116042.
- 1.23. Agop M., **Gavriliuț A.**, Rezuș E., *Implications of Onicescus informational energy in some fundamental physical models*, International Journal of Modern Physics B, Vol. 29 (2015), 1550045 (19 pages), DOI: 10.1142/S0217979215500459.
- 1.24. Agop M., **Gavriliuț A.**, Ștefan G., *SL(2R) invariance of the Kepler type motions and Shannon informational entropy. Uncertainty relations through the constant value of the Onicescu informational energy*, Reports on Mathematical Physics, No. 1, Vol. 75 (2015), 101-112.
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3.7. Gavriluț 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.

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- 3.18.** Croitoru A., **Gavriliuț A.**, Mastorakis N.E. – *Convergence theorems for totally-measurable functions*, WSEAS Transactions on Mathematics Volume 8, Issue 10 (2009), 614-623.
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- 3.20.** **Gavriliuț A.**, *Semivariation and exhaustivity of set multifunctions*, Scientific Studies and Research, Series Mathematics and Informatics, Vol. 20 (2010), no. 1, 61 – 82.
- 3.21.** **Gavriliuț A.**, Croitoru A., *Convergence theorems for a (set-valued) fuzzy integral*, Aplimat Journal of Applied Mathematics, Vol. 3 (2010), Number 1, 221-231.
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- 3.24.** Crumpei G., **Gavriliuț A.**, Agop M., Crumpei I., Negură L., Grecu I., *New Mathematical and Theoretical Foundation in Human Brain Research. An interdisciplinary approach in a transdisciplinary world*, Human and Social Studies, Vol. 3, no. 1 (2014), 45-58.
- 3.25.** Crumpei G., **Gavriliuț A.**, Agop M., Crumpei I., *An Exercise in a Transdisciplinary Approach for New Knowledge Paradigms*, Human and Social Studies, Vol. 3, no. 3 (2014), 114-143.
- 3.26.** Crumpei G., **Gavriliuț A.**, Agop M., Crumpei I., Negură L., Grecu I., *Spațiul imaginar din perspectiva sistemelor complexe*, Philologica Jassyensia, X, No. 1 (19), 2014, Suppl, 617-626.
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4.16 Crumpei G., Gavriluț A., Agop M., Crumpei I., *Brain functionality via complex systems theory*, Proceedings of the 8th Chaos 2015 International Conference, Paris, France, 26-29 May, 2015.

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