

Nume Prenume: Bucur Amelia
Gradul didactic: Conferențiar universitar doctor
Instituția unde este titular: Universitatea "Lucian Blaga" din Sibiu
Facultatea: Științe
Departamentul: Matematică și Informatică

LISTA DE LUCRĂRI PUBLICATE

A. Teze de doctorat

- 1. Titlul de doctor** în domeniul Matematică/ anul 2000 (Univ."Babeș-Bolyai", Cluj-Napoca)
Titlul tezei de doctorat "*Contribuții la studiul spectrelor fine ale unor operatori de mediere*"
- 2. Titlul de doctor** în domeniul Inginerie și Management/ anul 2012(Univ."Lucian Blaga", Sibiu)
Titlul tezei de doctorat "*Contribuții la abordarea științifică a calității și managementului calității*"

B. Cărți și capitole în cărți

- 1. Amelia Bucur**, Capitolul 10 în cartea *Application of Novel Research Methods. The Study of Current Economic Phenomena*, Editor Camelia Oprean-Stan, Published by Peter Lang GmbH, Berlin, Deutschland, 2024, 193-202,
<https://www.peterlang.com/document/1481490>
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- 2. Amelia Bucur**, Adrian Nicolae Branga, *Theory and Applications of Numerical Approximation Techniques*, Cambridge Scholars Publishing, UK, 2024,
<https://www.cambridgescholars.com/product/978-1-5275-9383-1>
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- 3. Amelia Bucur**, *Tehnici de optimizare și numerice: schițe de teorie și aplicații*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, 2023
- 4. Amelia Bucur**, *Numerical methods - topics for lectures and laboratory classes-*, Lucian Blaga of Sibiu Publishing House, Sibiu, 2022
- 5. Amelia Bucur**, *Matematici speciale*, Editura Techno Media, Sibiu, 2021
- 6. Amelia Bucur**, *Metode numerice*, Editura Techno Media, Sibiu, 2021
- 7. Amelia Bucur**, *Matematică cu aplicații în ecologie și biologie – Suport de curs și seminar*, Editura Universității „Lucian Blaga” din Sibiu, Sibiu, 2020
- 8. Vasile Brătian** (coordonator), **Amelia Bucur**, Claudiu Opreana, *Finanțe cantitative – Evaluarea valorilor mobiliare și gestiunea portofoliului*, Editura Universității „Lucian Blaga” din Sibiu, Sibiu, 2016
- 9. Amelia Bucur**, *Contribuții la abordarea științifică a calității și managementului calității, prin modelare și simulare*, Editura Universității „Lucian Blaga” din Sibiu, Sibiu, 2015
- 10. Amelia Bucur** and Constantin Oprean, *Operational Research and Applications in Quality Management*, LAP Lambert Academic Publishing, Saarbrücken, Germany, 2014
<https://www.amazon.com/Operational-Research-Applications-Quality-Management/dp/3659627216>
- 11. Amelia Bucur**, *Modelare și simulare cu privire la calitate și managementul calității*, Editura Universității „Lucian Blaga” din Sibiu, Sibiu, 2014
- 12. Dumitru Acu**, Dumitru Barac, Nicolae Suciuc, **Amelia Bucur** (colaborator) s.a.colaboratori, *Concursul interjudetean de matematică Gheorghe Lazăr*, Editura Asociațiunii Astra, Sibiu, 2010

13. **Amelia Bucur**, *Metode de calcul a spectrelor fine pentru operatori de tip Cesaro*, Editura Universității Lucian Blaga, Sibiu, 2009
14. Dumitru Acu, Nicolae Suci, **Amelia Bucur** s.a.editori, *Concursul interjudețean de matematică Gheorghe Lazăr*, Editura Asociațiunii Astra, Sibiu, 2009
15. **Amelia Bucur**, Marian I.Olaru, *Ecuatii diferențiale. Note de curs*, Editura Universității Lucian Blaga, Sibiu, 2009
16. Marian I.Olaru, **Amelia Bucur**, *Ecuatii cu derivate parțiale. Note de curs*, Editura Universității Lucian Blaga, Sibiu, 2009
17. **Amelia Bucur**, *Probleme fundamentale de geometrie și aspecte metodice*, Editura Universității Lucian Blaga, Sibiu, partea I, 2006, partea II, 2008
18. **Amelia Bucur**, *Matematici aplicate în biologie și ecologie*, Editura Universității Lucian Blaga Sibiu, 2008
19. **Amelia Bucur**, Mioara Boncuț, *Cercetări operaționale. Note de curs și seminar*, Editura Universității Lucian Blaga Sibiu, 2007
20. **Amelia Bucur**, *Modelare socială. Suport pentru curs și proiecte*, Editura Universității Lucian Blaga Sibiu, 2007
21. Dumitru Acu, **Amelia Bucur**, Nicolae Secelean, Eugen Drăghici, *Lucrările celei de a VI-a conferințe anuale a Societății de Științe Matematice din România*, vol.I,II, Sibiu, 2003
22. Mioara Boncuț, **Amelia Bucur**, *Matematici speciale. Curs editat conform standardelor ID*, Editura Alma Mater, Sibiu, 2002
23. **Amelia Bucur**, *Curs de analiză matematică*, Editura Alma Mater, Sibiu, 2002
24. **Amelia Bucur**, *Matematică și statistică*, Editura Alma Mater, Sibiu, 2001
25. Mioara Boncuț, **Amelia Bucur**, *Capitole de matematici speciale*, Editura Alma Mater, Sibiu, 2001
26. Călin I. Gheorghiu, **Amelia Bucur**, *Matematici generale*, Editura Universității Lucian Blaga, Sibiu, 2001
27. **Amelia Bucur**, *Capitole de algebră liniară, geometrie analitică și diferențială*, Vol. I și II, Editura Universității Lucian Blaga din Sibiu, vol.I, II, 2000
28. **Amelia Bucur**, *Spectrele variantelor discrete ale unor operatori de mediere*, Editura Con-Edit, Sibiu, partea I, 1999
29. **Amelia Bucur**, Mioara Boncuț, *Metode de însumare a seriilor Fourier și a integralelor improprii*, Editura Con-Edit, Sibiu, partea I, 1999

C. Lucrări indexate ISI / BDI

C1- Lucrări indexate ISI

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2. **WOS:001116935000046**
Muhammad Farman, Ali Akgül, Mir Sajjad Hashemi, Liliana Guran, **Amelia Bucur**, *Fractal Fractional Order Operators in Computational Techniques for Mathematical Models in Epidemiology*, Computer Modeling in Engineering & Sciences (CMES), vol.138, nr.2., 2024, 1385-1403
3. **WOS:001113088800001**
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7. WOS: 000516823700134

Amelia Bucur, *Fixed Points for Multivalued Weighted Mean Contractions in a Symmetric Generalized Metric Space*, *Symmetry* 2020, 12, 134; doi:10.3390/sym12010134

8. WOS: 000466551600259

Amelia Bucur, Gabriela Dobrotă, Oana Dumitrașcu, *Implications of Fiscal Pressure on the Sustainability of the Equilibrium and Performance of Companies. Evidences in the Rubber and Plastic Industry from Romania*, *Sustainability*, 11(7), 2019, <https://doi.org/10.3390/su11072082>.

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10. WOS:000424044500007

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11. WOS:000425855800002

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14. WOS:000416114300011

Liliana Guran, **Amelia Bucur**, *Fixed point problems for (α, ψ) - weakly contractive operator on KST spaces*, *Filomat*, WOS:000416114300011, 31:14, 2017, 4441–4454

15. WOS:000370164800025

Mihail Aurel Tițu, **Amelia Bucur**, *Models for Quality Analysis of Services in the Local Public Administration*, *Quality & Quantity*, vol. 50, issue 2, 2016, 921-936, DOI 10.1007/s11135-015-0183-3

16. WOS:000374898400001

Vasile Brătian, **Amelia Bucur**, Camelia Oprean, Cristina Tănăsescu, *Discretionary vs Nondiscretionary in Fiscal Mechanism – Non-Automatic Fiscal Stabilizers vs Automatic Fiscal Stabilizers*, *Economic Research - Ekonomska Istraživanja*, 29:1, 2016, 1-17, DOI 10.1080/1331677X.2015.1106330

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- 21. WOS:000411723700006**
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- 22. WOS:000411723700069**
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- 23. WOS:000323671200027**
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- 24. WOS:000302988700042**
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- 25. WOS:000302988700039**
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- 27. WOS:000335704200081**
Constantin Oprean, **Amelia Bucur**, *The I-P-C-V Model for Improving the Quality Management and its Applications*, Conference Proceedings Balkan Region Conference on Engineering Education & MSE, Sibiu, 18-21 octombrie 2012, pp.413-422
- 28. WOS:000335704200083**
Magda Susan Resiga, Ștefania Kifor, **Amelia Bucur**, *The Research School in the Field of Engineering Sciences*, Conference Proceedings Balkan Region Conference on Engineering Education & MSE 6th Balkan Region Conference on Engineering and Business Education & 5th International Conference on Engineering and Business Education & 4th International Conference on Innovation and Entrepreneurship, Sibiu, 18-21 octombrie 2012, 425-430
- 29. WOS:000393733900030**
Marilena Blaj, **Amelia Bucur**, *Evaluation of the Degree of Interest, of the Utility and Acceptability of the Human Resource Regarding the Participation in Programs of Study in Higher Education*, Proceedings of the International Conference on Manufacturing Science and Education, International Conference on Manufacturing Science and Education(MSE), 2011, Sibiu, 123-126
- 30. WOS:000314355500048**
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- 31. WOS:000257699300006**
Amelia Bucur, Ricardo Garcia-Olivo, Jose Luis Lopez Bonilla, *Relationships between Riemannian invariants*, International Journal of Applied Mathematics & Statistics(IJAMAS),vol.16, nr.M10, India, 2010, 59-61
- 32. WOS:000392594500022**
Constantin Oprean, Alina Mihaela Vanu, **Amelia Bucur** *Strategies for Environmental Protection and Resource Management in the Context of Sustainable Development*, International Conference Proc. 17th International Economic Conference(IECS), Sibiu, mai 2010, 154-163
- 33. WOS:000266274300002**

Amelia Bucur, Liliana Guran, Adrian Petrusel, *Fixed Point Theorem for Multivalued Operators on a Set Endowed with Vector-Valued Metrics and Applications*, Fixed Point Theory, no.1, 19-34, Cluj-Napoca, 2009

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Mioara Boncuț, **Amelia Bucur**, *About Fourier Series in Study of Periodic Signals*, Proceedings of the 9th WSEAS International Conference on Neural Networks, Sofia, Bulgaria 2-4 mai 2008, 20-25

C2 - Lucrări indexate BDI (dintre care, o parte, indexate și în SCOPUS)

Indexate BDI și SCOPUS

1. **Amelia Bucur**, *A fixed-point approach to a multi-group SEIRV epidemic model*, Journal of Prime Research in Mathematics, 18(2) (2022), 144–151
2. **Amelia Bucur**, *Aspects regarding the existence of fixed points of the iterates of Stancu operators*, Surveys in Mathematics and its Applications, vol 14, 2019, 355-365
3. **Amelia Bucur**, *Aspects Regarding the Quality Management of Intellectual Capital in Industrial Organizations*, Academic Journal of Manufacturing Engineering, Vol. 12, Issue 4, dec.2014, 18-23
4. **Amelia Bucur**, *Fixed Point Theorems for ψ - Contractions in Generalized Metric Spaces with Vectorial Metric*, International Journal of Applied Mathematics and Statistics, vol.10, nr.M11, India, martie 2011, 11-15

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5. **Amelia Bucur**, *About Upper and Lower Strong Fractional Weighted Mean Convergence by Moduli for Triple Sequences*, Journal of Applied Mathematics and Physics, vol.11, nr.5, 2023, 1304-1318
6. **Amelia Bucur**, *A fixed-point approach to mathematical models in epidemiology*, International Journal of Advance Study and Research Work (IJASRW), vol5, nr.11, 2022, 1-13
7. **Amelia Bucur**, *Calculations of Some Trigonometric Interpolation Polynomials and Some Graphical Representations in Maple*, International Journal of Advance Study and Research Work (IJASRW), vol5, nr.7, 2022, 1-13
8. **Amelia Bucur**, *Some aspects about mathematical modeling for epidemic management*, Management of Sustainable Development, vol.13, nr.2, 2021, 19-28
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11. Vasile Brătian, Claudiu Opreana, **Amelia Bucur**, *Evaluation of the stock quote – stochastic approach, market efficiency and technical analysis*, International Journal of Economics and Financial Issues, 7(5), 2017, 307-316
12. **Amelia Bucur**, *About Applications of the Fixed Point Theory*, Scientific Bulletin of the Nicolae Balcescu Land Forces Academy, Sibiu, XXII(43), 1, 2017, 13-17
13. Vasile Brătian, **Amelia Bucur**, *The Development and the Current Status of the Capital Market Hypotheses: a Few Benchmarks*, Revista Economică, 69(1), 2017, 22-28
14. **Amelia Bucur**, *The fine spectra of some Cesaro operators*, Journal of Dynamical systems and geometric theories, vol. 2, Iran, 2004, 27-33
15. **Amelia Bucur**, *Modelling of the Quality Management of the Human Resource Training*, Buletinul Științific al Academiei Forțelor Terestre, Sibiu, vol.XX, nr. 2(40), dec.2015, 137-142
16. **Amelia Bucur**, *Aspects of Multicriterial Mathematical Modeling and of the Fuzzy Formalism for the Hierarchization of Study Programs Based on Several Quality Characteristics*, Acta Universitatis Lucian Blaga, Technical Series, Vol.LXVII, 2015, 1-6
17. **Amelia Bucur**, *Entropy and Conditioned Negentropy – Mathematical Models for the Analysis of Quality*, Revista Academiei Forțelor Terestre, nr.2(78), Sibiu, 2015, 217-225
18. **Amelia Bucur**, *Aspects regarding the optimization of the quality of managerial decisions -solving an*

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19. **Amelia Bucur**, José Luis López-Bonilla, Jaime Robles-García, *A note on the Namias identity for Bernoulli numbers*, Journal of Scientific Research, Vol. 56, no.1-2, Banaras Hindu University, Varanasi, 2012, 117-120
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 21. Marilena Blaj, Roland Blaj, **Amelia Bucur** *A Mathematical Model of The Degree of Acceptability Specific to Conditions of Participation in Study Programs*, Revista Acad. Fortelor Terestre, nr.2, 2011
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 26. **Amelia Bucur**, *Resource Management in the Context of Sustainable Development: the Usage of Solar Photovoltaic Sources* Management of Sustainable Development, vol.2, nr.2, Sibiu, 2010, 10-18
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 29. Constantin Oprean, Mihaela Alina Vanu and **Amelia Bucur**, *Sustainable Development Modeling*, Management of Sustainable Development, vol.1, nr.2, Sibiu, 2009, 10-18
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 34. Arif Rafiq, **Amelia Bucur**, *On Modified Noor Iterations for Strongly Pseudocontractive Mappings*, General Mathematics, vol.15, no.3, Sibiu, 2009, 187-201
 35. **Amelia Bucur**, Sossa-Caraseo C.A., *Sofia Kovalevskaja: La mujer y matematica celeberrima de su epoca*, Conversus (ISSN 1665-2665), no.68, National Polytechnic Institute-Mexico City, Mexic, 2008, 54-57
 36. **Amelia Bucur**, *General Mathematics-Fifteen Years of Publication*, General Mathematics, vol.16, no. 1, Sibiu, 2008, 3-4
 37. **Amelia Bucur**, Alvarez-Ballesteros S., Lopez-Bonilla J.L., *On the Characteristic Equation of Chebyshev Matrices*, General Mathematics, vol.15, no.4, Sibiu, 2007, 17-23
 38. Muresan, A.C., **Amelia Bucur**, *The cost of the Rational Polynomial's Root's Separation* Studii si Cercetari Stiintifice. Seria Matematica, Supplement Proceedings of CNMI 2007, Bacău, 2007, 117-138
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 42. **Amelia Bucur**, *Short reviews: Polinoame ortogonale*, General Mathematics, vol.12, no.1, Sibiu, 2005, 109-110

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45. **Amelia Bucur**,*Posinormality versus hyponormality for Cesaro operators*, General Mathematics,vol.11,nr. 1-2,Sibiu, 2003, 33-46
46. **Amelia Bucur**, *Some notes on absolute convergence of Fourier series*, General Mathematics,vol.11, nr.3-4,Sibiu, 2003, 45-52
47. Dumitru Acu, **Amelia Bucur**, *General Mathematics-One decade of publication*, General Mathematics, vol.11, nr. 3-4,Sibiu, 2003, 3-4
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