

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**, 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>
- 2. Amelia Bucur**, *Tehnici de optimizare și numerice: schițe de teorie și aplicații*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, 2023
- 3. Amelia Bucur**, *Numerical methods - topics for lectures and laboratory classes-*, Lucian Blaga of Sibiu Publishing House, Sibiu, 2022
- 4. Amelia Bucur**, *Matematici speciale*, Editura Techno Media, Sibiu, 2021
- 5. Amelia Bucur**, *Metode numerice*, Editura Techno Media, Sibiu, 2021
- 6. Amelia Bucur**, *Matematică cu aplicații în ecologie și biologie – Suport de curs și seminar*, Editura Universității „Lucian Blaga” din Sibiu, Sibiu, 2020
- 7. Vasile Brătian** (coordonator), **Amelia Bucur**, Claudiu Opreana, *Finanțe cantitative – Evaluarea valorilor mobiliare și gestiunea portofoliului*, Editura Universității „Lucian Blaga” din Sibiu, Sibiu, 2016
- 8. Amelia Bucur**, *Contribuții la abordarea științifică a calității și managementului calității, prin modelare și simulare*, Editura Universității „Lucian Blaga” din Sibiu, Sibiu, 2015
- 9. 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>
- 10. Amelia Bucur**, *Modelare și simulare cu privire la calitate și managementul calității*, Editura Universității „Lucian Blaga” din Sibiu, Sibiu, 2014
- 11. Dumitru Acu**, Dumitru Barac, Nicolae Suci, **Amelia Bucur**(colaborator) s.a.colaboratori, *Concursul interjudețean de matematică Gheorghe Lazăr*, Editura Asociațiunii Astra, Sibiu, 2010
- 12. Amelia Bucur**, *Metode de calcul a spectrelor fine pentru operatori de tip Cesaro*, Editura Universității Lucian Blaga, Sibiu, 2009
- 13. Dumitru Acu**, Nicolae Suci, **Amelia Bucur** s.a.editori, *Concursul interjudețean de matematică Gheorghe Lazăr*, Editura Asociațiunii Astra, Sibiu, 2009
- 14. Amelia Bucur**, Marian I.Olaru, *Ecuatii diferențiale. Note de curs*, Editura Universității Lucian Blaga, Sibiu, 2009
- 15. Marian I.Olaru**, **Amelia Bucur**, *Ecuatii cu derivate parțiale. Note de curs*, Editura Universității Lucian Blaga, Sibiu, 2009
- 16. Amelia Bucur**, *Probleme fundamentale de geometrie și aspecte metodice*, Editura Universității Lucian Blaga, Sibiu, partea I, 2006, partea II, 2008
- 17. Amelia Bucur**, *Matematici aplicate în biologie și ecologie*, Editura Universității Lucian Blaga Sibiu, 2008

18. **Amelia Bucur**, Mioara Boncuț, *Cercetări operaționale. Note de curs și seminar*, Editura Universității Lucian Blaga Sibiu, 2007
19. **Amelia Bucur**, *Modelare socială. Suport pentru curs și proiecte*, Editura Universității Lucian Blaga Sibiu, 2007
20. 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
21. Mioara Boncuț, **Amelia Bucur**, *Matematici speciale. Curs editat conform standardelor ID*, Editura Alma Mater, Sibiu, 2002
22. **Amelia Bucur**, *Curs de analiză matematică*, Editura Alma Mater, Sibiu, 2002
23. **Amelia Bucur**, *Matematică și statistică*, Editura Alma Mater, Sibiu, 2001
24. Mioara Boncuț, **Amelia Bucur**, *Capitole de matematici speciale*, Editura Alma Mater, Sibiu, 2001
25. Călin I. Gheorghiu, **Amelia Bucur**, *Matematici generale*, Editura Universității Lucian Blaga, Sibiu, 2001
26. **Amelia Bucur**, *Capitole de algebră liniară, geometrie analitică și diferențială*, Vol. I și II, Editura Universității Lucian Blaga din Sibiu, vol. I, II, 2000
27. **Amelia Bucur**, *Spectrele variantelor discrete ale unor operatori de mediere*, Editura Con-Edit, Sibiu, partea I, 1999
28. **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

#### 1. WOS:

Abdelkader Belhenniche, **Amelia Bucur**, Liliana Guran, Adrian Nicolae Branga, *Using computational techniques of fixed point theory for studying the stationary infinite horizon problem from the financial field*, vol.9, nr.1, 2024, 2369-2388

#### 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

Akram Ghazala, Zainab Iqra, Sadaf Maasoomah, **Amelia Bucur**, *Solitons, one line rogue wave and breather wave solutions of a new extended KP-equation* Results in Physics, Article number 107147, 2023, 1-16

#### 4. WOS: 001025061000001

Kalim U. Tariq, Muhammad Nadeem, Muhammad Zeeshan, Liliana Guran, **Amelia Bucur**, *On the dynamics of a dual space time fractional nonlinear Schrödinger model in optical fibers*, Results in Physics, vol.51, 2023, 106603

#### 5. WOS: 001024600400072

Jamshad Ahmad, Sonia Akram, Kanza Noor, Muhammad Nadeem, **Amelia Bucur**, Yahya Alsayaad, *Soliton solutions of fractional extended nonlinear Schrödinger equation arising in plasma physics and nonlinear optical fiber*, Scientific Reports, vol. 13, Article number 10877, 2023

#### 6. WOS: 001046733800001

Khurram Shabbir, Javed Iqbal; **Amelia Bucur**; Azhar Ali Zafar, *Analyzing the convergence of a semi-numerical-analytical scheme for non-linear fractional PDEs*, Alexandria Engineering Journal, vol.78, 26-34, 2023

#### 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>.

#### 9. WOS:000460767300033

**Amelia Bucur**, *Fixed Points for Multivalued Convex Contractions on Nadler Sense Types in a Geodesic Metric Space*, Symmetry, 11(2), 155, 2019, 1-13, doi:10.3390/sym11020155

**10. WOS:000424044500007**

**Amelia Bucur**, Claudiu Vasile Kifor, Silvia Cristina Mărginean, *Evaluation of the Quality and Quantity of Research Results in Higher Education*, *Quality & Quantity*, vol.52, nr.1, 2018, 101-118, DOI 10.1007/s11135-016-0452-9

**11. WOS:000425855800002**

Camelia Oprean-Stan, Cristina Tănăsescu, **Amelia Bucur**, *A New Proposal for Efficiency Quantification of Capital Markets in the Context of Complex Nonlinear Dynamics and Chaos*, *Economic Research-Ekonomska Istraživanja*, 30(1), 2017, 1669-1692, DOI:10.1080/1331677X.2017.1383172

**12. WOS:000404052600012**

**Amelia Bucur**, Gabriela Dobrotă, Camelia Oprean-Stan, Cristina Tănăsescu, *Economic and Qualitative Determinants of the World Steel Production*, *Metals*, 7(5), doi:10.3390/met7050163, 2017, 1-13

**13. WOS:000400930500001**

**Amelia Bucur**, *How can we apply the Model of the Quality of Life and of the Quality of Life Management in an Economy based on Knowledge?*, *Economic Research - Ekonomska Istraživanja*, vol.30, 1, 2017, 629-646

**14. WOS:000416114300011**

Liliana Guran, **Amelia Bucur**, *Fixed point problems for  $(\alpha, \psi)$ - 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

**17. WOS:000352509200014**

Constantin Oprean, **Amelia Bucur**, *Modeling the quality entropy of key programs of study*, *Quality and Quantity*, Olanda, vol.49, issue 2, 2015, 631-636, DOI: 10.1007/s11135-014-0013-z

**18. WOS:000398586307030**

**Amelia Bucur**, *Improving the quality of operational research courses by simulation with WinQSB, Maple, and GeoGebra*, Proc.of the 9th Interantional Technology, Education and Development Conference,(INTED 2015), Madrid, Spania, INTED 2015 Proceedings, 2-4 martie 2015, 7237-7243

**19. WOS:000411723700025**

Mihai-Victor Zerbes, Liliana G. Popescu, **Amelia Bucur**, *Conceptual Model for Measuring Performance of Planning and Design Processes*, SGEM Conference on Psychology & Psychiatry, Sociology & Healthcare Education, Conference Proceedings, Volume III, International Multidisciplinary Scientific Conferences on Social Sciences & Arts, 3-9 septembrie, 2014, Albena, Bulgaria, 185-192

**20. WOS:000411723700134**

Mihai-Victor Zerbes, Liliana G. Popescu, **Amelia Bucur**, *Validation of Processes*, SGEM Conference on Psychology & Psychiatry, Sociology & Healthcare Education, Conference Proceedings, Volume III, International Multidisciplinary Scientific Conferences on Social Sciences & Arts, 3-9 septembrie, 2014, Albena, Bulgaria, 1035-1040

**21. WOS:000411723700006**

Liliana G. Popescu; Mihai-Victor Zerbes; **Amelia Bucur**, *A Strategic Analysis Model for Developing Centres for Additive Manufacturing in Universities*, SGEM Conference on Psychology & Psychiatry, Sociology & Healthcare Education, Conference Proceedings, Volume III, International multidisciplinary scientific conferences on social sciences and arts SGEM 2014, Albena, Bulgaria, September 2-7, 2014, 43-50

**22. WOS:000411723700069**

Liliana G. Popescu; Mihai-Victor Zerbes; **Amelia Bucur**, *Mathematical modeling of the student's degree of interest for educational activities in the quality and sustainable development field*, SGEM Conference on Psychology & Psychiatry, Sociology & Healthcare Education, Conference

- Proceedings, Volume III, International multidisciplinary scientific conferences on social sciences and arts SGEM 2014, Albena, Bulgaria, September 2-7, 2014, 517-524
- 23. WOS:000323671200027**  
Constantin Oprean, **Amelia Bucur**, *Modeling and simulation of the quality's entropy*, Quality and Quantity, Vol.47, Issue 6, 2013, 3403-3409, Olanda
- 24. WOS:000302988700042**  
**Amelia Bucur**, *Aspects Regarding the Obtaining of the Optimum Quality*, Revista Metalurgia Internațional, București, vol.XVII, nr.6, 2012, 202-191
- 25. WOS:000302988700039**  
**Amelia Bucur**, *Examples of Using the SPSS and WinQSB Softwares for Collecting and Analyzing Data in Order to Obtain the Optimum Quality*, Revista Metalurgia Internațional, București, vol.XVII, nr.6, 2012, 187-191
- 26. WOS:000335704200084**  
Irina Șogorăscu, **Amelia Bucur**, Constantin Oprean, Mihai Zerbeș, Alina Rus, *Implementing Alternative Methods for Quality Evaluation that Aim the Development of a Sustainable Business*, Conference Proceedings 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, pp.431-434
- 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**  
Mihai Ognean, Claudia Felicia Ognean, **Amelia Bucur**, *Rheological Effects of Some Xylanase on Doughs from High and Low Extraction Flours*, Procedia Food Science, vol 1., 11th International Congress on Engineering and Food (ICEF11), Atena, Grecia, 2011, 308-314
- 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. 17<sup>th</sup> 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
- 34. WOS:000273607900042**  
Constantin Oprean, **Amelia Bucur**, Alina Mihaela Vanu, *A Mathematical Model of the Innovation Indicator*, Proc. 5th Balkan Region Conference on Engineering and Business Education & 2nd International Conference on Engineering and Business Education, Sibiu, Romania, 15 - 17 octombrie 2009, 194-198
- 35. WOS:000257699300006**  
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  $\psi$ - Contractions in Generalized Metric Spaces with Vectorial Metric*, International Journal of Applied Mathematics and Statistics, vol.10, nr.M11, India, martie2011, 11-15

### Indexate BDI

5. **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
6. **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
7. **Amelia Bucur**, *Some aspects about mathematical modeling for epidemic management*, Management of Sustainable Development, vol.13, nr.2, 2021, 19-28
8. **Amelia Bucur**, *Differential Equation for the Entropy of Rural Tourism in the Context of COVID-19*, Management of Sustainable Development, vol.13, nr.1, 2021, 4-8
9. **Amelia Bucur**, *The Entropy of the Sustainable Development of Rural Tourism Organizations in the Context of Collaborative Economy*, Annals of the „Constantin Brâncuși” University of Târgu Jiu, vol.2, 2018, 65-75
10. 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
11. **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
12. 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
13. **Amelia Bucur**, *The fine spectra of some Cesaro operators*, Journal of Dynamical systems and geometric theories, vol. 2, Iran, 2004, 27-33
14. **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
15. **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
16. **Amelia Bucur**, *Entropy and Conditioned Negentropy – Mathematical Models for the Analisis of Quality*, Revista Academiei Forțelor Terestre, nr.2(78), Sibiu, 2015, 217-225
17. **Amelia Bucur**, *Aspects regarding the optimization of the quality of managerial decisions -solving an optimization problem in the sense of sustainability with WinQSB*, Review of General Management, no.1, vol.15, Brașov, 2012, 194-202
18. **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
19. **Amelia Bucur**, José L. López-Bonilla and Manuel Robles-Bernal, *On a Generating Function for the Hermite Polynomials*, Journal of Scientific Research Vol. 55, Banaras Hindu University, Varanasi, 2011, 173-175
20. 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
21. Cristina Tănăsescu and **Amelia Bucur**, *A Study of First-order Disturbance of the Second Order Approximation of a Vectorial Function with Application in Engineering and other Sciences*, Gen. Math. Notes, Vol. 2, No. 1, January 2011, India, 209-220

22. **Amelia Bucur**, Marilena Blaj, *A Mathematical Model of the Degree of Acceptability Specific to Conditions of Participation in Planned Actions*, Gen. Math. Notes, Vol. 3, No. 2, 2011, 84-87
23. **Amelia Bucur**, José Luis López-Bonilla, *On some series of functions*, Rev. Notas de Matematicas, Los Andes, Merida-Venezuela, ISSN: 1856 - 7800, vol.6(2), nr.297, 2010, 47-57
24. Constantin Oprean, Mihaela Alina Vanu and **Amelia Bucur**, *Innovation and Quality Management*, Revista Română a Inovării, nr.6-7, Bucuresti, 2010, 47-53
25. **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
26. José Luis López-Bonilla, Alejandro Iturri-Hinojosa, **Amelia Bucur**, *Lanczos derivative for a discontinuous function*, Rev. Notas de Matematicas, Los Andes, Merida-Venezuela, vol.6(1), no.288, 2010, 23-29
27. Cristina Tănăsescu, **Amelia Bucur**, *An Approach Dating Romanian Business Cycle's Turning Points*, Proc. 17<sup>th</sup> International Economic Conference (IECS), Sibiu, 2010, 624-629
28. Constantin Oprean, Mihaela Alina Vanu and **Amelia Bucur**, *Sustainable Development Modeling*, Management of Sustainable Development, vol.1, nr.2, Sibiu, 2009, 10-18
29. Cristina Tănăsescu, **Amelia Bucur**, *Modelling of Economic Cycles and Maximal Elements in Competitive Abstract Economies in the Context of Sustainable Development*, Management of Sustainable Development, vol.1, nr.1, Sibiu, 2009, 13-18
30. Daniela Maria Flucșă, **Amelia Bucur**, Mihaela Alina Vanu, Mihail Aurel Țițu, *Qualitative Communication – a Characteristic of Sustainable Development*, Management of Sustainable Development, vol.1, nr.2, Sibiu, 2009, 10-18
31. Constantin Oprean, Alina Mihaela Vanu, **Amelia Bucur**, *Organizational wellness modelling*, Review of International Comparative Management, vol. 10, no.4, Bucuresti, 2009, 622-632
32. **Amelia Bucur**, B.E. Carvajal-Gámez, J. López-Bonilla, *Laguerre polynomials: Their Laplace transform via equidistant interpolation*, Journal of Scientific Research, vol. 53, Banaras Hindu University, India, 2009, 257-258
33. Arif Rafiq, **Amelia Bucur**, *On Modified Noor Iterations for Strongly Pseudocontractive Mappings*, General Mathematics, vol.15, no.3, Sibiu, 2009, 187-201
34. **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
35. **Amelia Bucur**, *General Mathematics-Fifteen Years of Publication*, General Mathematics, vol.16, no. 1, Sibiu, 2008, 3-4
36. **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
37. 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
38. **Amelia Bucur**, *Short book review: Spectral Methods for Differential Problems Author: C.I. Gheorghiu*, General Mathematics, vol.15, nr. 4, Sibiu, 2007, 117-118
39. **Amelia Bucur**, *About Asymptotic Behaviour of Solutions of Differential Equations as  $x \rightarrow \infty$* , General Mathematics, vol.14, nr. 2, Sibiu, 2006, 55-58
40. **Amelia Bucur**, *About the Second-Order Equations with Variable Coefficients*, General Mathematics, vol.14, nr.3, Sibiu, 2006, 39-42
41. **Amelia Bucur**, *Short reviews: Polinoame ortogonale*, General Mathematics, vol.12, no.1, Sibiu, 2005, 109-110
42. **Amelia Bucur**, *Boundness of Cesaro Means Operators*, General Mathematics, vol.13, no.1, Sibiu, 2005, 11-22
43. **Amelia Bucur**, *On the Sixtieth Birthday of Prof. Dr. Dumitru Acu*, General Mathematics, vol. 13, no. 2, Sibiu, 2005, 3-22
44. **Amelia Bucur**, *Posinormality versus hyponormality for Cesaro operators*, General Mathematics, vol.11, nr. 1-2, Sibiu, 2003, 33-46
45. **Amelia Bucur**, *Some notes on absolute convergence of Fourier series*, General Mathematics, vol.11, nr.3-4, Sibiu, 2003, 45-52
46. Dumitru Acu, **Amelia Bucur**, *General Mathematics-One decade of publication*, General Mathematics, vol.11, nr. 3-4, Sibiu, 2003, 3-4
47. **Amelia Bucur**, *About one fixed point theorem*, General Mathematics, vol.10 nr.1-2, Sibiu, 2002, 71-74
48. **Amelia Bucur**, *On the fine spectra of averaging operators*, General Mathematics, vol.9, no.3-4, Sibiu, 2001, 23-35

49. **Amelia Bucur**, *The existance of the solution for some integral equations*, General Mathematics, vol.8, nr.1-2,Sibiu, 2000, 83-89
50. **Amelia Bucur**, *Spectral properties of weighted mean integral operator*, Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie, Tome 43(91), no.1,Bucuresti, 2000, 15-20
51. **Amelia Bucur**, *A sufficient condition for the hyponormality of z-Cesaro Operator*, Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie, Tome 43(91), no.1,Bucuresti, 2000, 34-38
52. **Amelia Bucur**, *The spectra of Rhaly operator on  $l_p$  ( $p > 1$ )*, Mathematica, Tome 41(64), nr.1,Cluj, 1999, 21-30
53. **Amelia Bucur**, *The fine spectra of discrete Cesaro operator on  $bv_0$* , General Mathematics, vol.7,nr.1-4,Sibiu, 1999, 89-96
54. **Amelia Bucur**, *The fine spectre of some Cesaro generalized operators*, General Mathematics,vol.4, nr.1-2,Sibiu, 1996, 82-97

#### D. Lucrări publicate în reviste(neindexate) și volume de conferințe cu referenți

##### D1- Lucrări publicate în reviste

1. **Amelia Bucur**, *Luciana Lupas.In memoriam* Educația matematică,vol.5,Sibiu,2009,3-10
2. **Amelia Bucur**, *Probleme propuse pentru concursuri de elevi*, Anuar matematic,vol.XI, Bistrița,2008, pp.78, 133
3. **Amelia Bucur**, *Numerele si formele naturii*, Monitorul de Sibiu, Sibiu,10 dec.2008, p.4
4. **Amelia Bucur**, *Contribuția lui Visarion Roman la matematica vremii*, Educația matematică, vol.3,nr. 1-2, Sibiu, 2007, 77-78
5. **Amelia Bucur**, *Probleme de combinatorică rezolvate neconvențional*, Educația matematică, nr.2, Sibiu, 2006, 71-78
6. **Amelia Bucur**, *On some problems from National Mathematical Olympiad 2003*, Educația matematică, nr.1, Sibiu, 2005, 95-100
7. **Amelia Bucur**, *Exerciții și probleme, în revista Epsilon*, Rm.Vâlcea, 1995, 1996
8. **Amelia Bucur**, *Exerciții și probleme, acceptate în câțiva ani, în cadrul subiectelor la Concursul Gh.Lazăr*, Sibiu

##### D2- Lucrări publicate în volume de conferințe cu referenți

9. Andrei-Călin Cîrstea, Liviu-Constantin Baboi, Gabriel Ghișoiu, Elena Ștefănescu, **Amelia Bucur**, *A Method to Build your own Autonomous Weather Station and to Validate It with Tools of Statistical Mathematics*, 20-22 octombrie 2022, International E-Conference on Mathematical and Statistical Sciences: a Selcuk Meeting, Book of Abstracts, 2022, 61
10. Cristina Bătușaru, **Amelia Bucur**, *Evaluation Methods of the Impact of Structural and Cohesion Funds on Economic and Social Development at Regional and National Level*, vol.24, issue 2, ISSN 1843-6722, The 24th International Conference The Knowledge-Based Organization, Proc., Acad. F.Terestre Sibiu, 14-16 iunie 2018, 23-30
11. Gabriela Dobrotă, **Amelia Bucur**, *Education, Health and Financial Security – Determinants of Sustainable Development*, Proceedings of the International Scientific Conference “Information Society and Sustainable Development”(ISSD), Ediția a IV-a, „Academica Brâncuși” Publishing House, ISBN 978-973-144-831-2, Tg.Jiu, Gorj, România, 28-29 aprilie 2017, 343-345
12. Liliana Guran, Shahram Rezapour, **Amelia Bucur**, *Existence and Ulam-Hyers stability for  $\alpha$ - $\psi$ -weakly contractive type multivalued operators on KST-spaces*, Conference on Ulam's Type Stability, 4-9 iulie 2016, Cluj-Napoca, pag.17 în Abstract Book <http://cuts.up.krakow.pl/2016/files/AbstractsCUTS2016.pdf>
13. **Amelia Bucur**, *Aspects of Multicriterial Mathematical Modeling and of the Fuzzy Formalism for the Hierarchization of Study Programs Based on Several Quality Characteristics*, Joint International Conference of Doctoral Students and Post-Doctoral Researchers (Panel 1: Engineering and Exact Sciences), Universitatea „Lucian Blaga” din Sibiu, 5-6 iunie 2015, ACTA Universitatis Cibiniensis, Vol. 67, Issue 1, 2015, 1-6
14. **Amelia Bucur**, *Quality Entropy - a Sustainable Concept*, Proceedings Book of International Conference on Science, Ecology and Technology I, The International Conference on Science, Ecology and Technology (Iconsete'2015 – Viena), Viena, Austria, 25-28 august 2015, 565-570
15. **Amelia Bucur**, Carmen Daniela Domnariu, *Using the SPSS Software to Assess the Health Status of Sibiu County's Population*, Proceedings of the 3rd International Conference on Mathematical,

- Computational and Statistical Sciences (MCSS '15), ISSN: 2227-4588, ISBN: 978-1-61804-275-0, Dubai, United Arab Emirates, 22-24 februarie 2015, 366-370
16. **Amelia Bucur**, *An Indicator of an Individual's Professional Quality*, Recent Advances in Applied Mathematics, Modelling and Simulation-Proceedings of the 8th International Conference on Applied Mathematics, Simulation, Modelling (ASM'14), Florența, Italia, 22-24 noiembrie 2014, 342-345
  17. **Amelia Bucur**, *Aspects regarding the scientific approach of quality and quality management by modeling and simulation*, Joint International Conference of Doctoral and Post-Doctoral Researchers, 12-13 septembrie 2014, Craiova, Romania, 9-24
  18. **Amelia Bucur**, *A few aspects regarding quality improvement in higher education*, Joint International Conference of Doctoral and Post-Doctoral Researchers, 12-13 septembrie 2014, Craiova, Romania, pp.178-188
  19. **Amelia Bucur**, Liliana G. Popescu, Mihai-Victor Zerbis, *Aspects of modeling and simulation of the traffic management quality sustainable in an urban intersection*, Proceedings of the 7th International Conference on Urban Planning and Transportation, Salerno, Italia, 3-5 iunie 2014, 74-79
  20. **Amelia Bucur**, *Modeling as a Multiple-Criteria Decision-Making Problem and simulation, for the Hierarchization of Programs of Study*, WSEAS Advances in Automatic Control Modelling and Simulation, Brașov, 2013, 338-343
  21. V. Zaharescu, C. Pănoiu, L. Miron, A. Romanescu, **Amelia Bucur**, *Equipment's life time management based on linear regression*, Proceedings of CIGRE Regional South-East European Conference (RESSEC 2012), Sibiu, 10-12 octombrie 2012, 196-201
  22. **Amelia Bucur** Mioara Boncuț, *About Boundness of Cesaro Operators*, Pannonian Applied Mathematical and Mechanics-PAMM Conference, 2-7 August 2005, University of Novi Sad, BAM-1980-C/2005, PC-149, Novi Sad, 2005
  23. Mioara Boncuț, **Amelia Bucur**, *Some properties of weighted mean integral operator*, Volumul-The 27th Annual Congress of the ARA Polytechnic International Press, Oradea, 2002, 616-618
  24. **Amelia Bucur**, *Studiu de caz privind calitatea absolvenților*, Volumul Conferinței Naționale „Noi abordări ale calității în învățământul superior”, ISBN 978-606-12-0272-0, Sibiu, 9 decembrie 2011, 42-47
  25. **Amelia Bucur**, *Probleme de extrem în geometria elementară*, Proceedings of the sixth annual conference of the Romanian Society of Mathematical Sciences 2002 (publicat în 2003 la Editura Universității “Lucian Blaga” din Sibiu – ISBN 973-651-634-2), Sibiu, 2003, 172-177
  26. **Amelia Bucur**, *Pledoarie pentru matematică. Matematica – o constantă a culturii generale*, Proceedings of the sixth annual conference of the Romanian Society of Mathematical Sciences, Sibiu, 2003, 72-89