# LISTĂ DE LUCRĂRI

## Conf.univ.dr. AMELIA BUCUR

### I. Teze de doctorat

**T1.Amelia Bucur**, *Contribuţii la studiul spectrelor fine ale unor operatori de mediere (Contributions to the study of fine spectra of some averaging operators),* Univ."Babeş-Bolyai", Cluj-Napoca, 1999

**T2.Amelia Bucur**, *Contribuţii la abordarea ştiinţifică a calităţii şi managementului calităţii (Contributions to the scientific approach of quality and quality management)*, Univ. „Lucian Blaga" din Sibiu, Sibiu, 2012

### II. Cărţi, cursuri, monografii

**C1. Amelia Bucur**, *Matematici speciale*, Editura Tehno Media, Sibiu, 2021

**C2. Amelia Bucur**, *Metode numerice*, Editura Tehno Media, Sibiu, 2021

**C3. Amelia Bucur**, *Matematică cu aplicaţii în ecologie şi biologie – Suport de curs şi seminar,* Universitatea Lucian Blaga Sibiu, Sibiu, 2020

**C4.**Vasile Brătian (coordonator), **Amelia Bucur**, Claudiu Opreana, *Finanţe cantitative – Evaluarea valorilor mobiliare şi gestiunea portofoliului,* Editura Universităţii „Lucian Blaga" din Sibiu, Sibiu, 2016

**C5.Amelia Bucur**, *Contribuţii la abordarea ştiinţifică a calităţii şi managementului calităţii, prin modelare şi simulare,* Editura Universităţii „Lucian Blaga" din Sibiu, Sibiu, 2015

**C6.Amelia Bucur**, Constantin Oprean, *Operational Research and Applications in Quality Management,* LAP Lambert Academic Publishing, Saarbrücken, Germania, 2014

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**C10.**Dumitru Acu,Nicolae Suciu,**Amelia Bucur** s.a.editori,*Concursul interjudeţean de matematică Gheorghe Lazăr,* Editura Asociaţiunii Astra, Sibiu, 2009

**C11.Amelia Bucur,** Marian I.Olaru, *Ecuatii diferentiale.Note de curs,* Editura Universităţii Lucian Blaga, Sibiu, 2009

**C12.**Marian I.Olaru, **Amelia Bucur,** *Ecuaţii cu derivate partiale. Note de curs,* Editura Universităţii Lucian Blaga, Sibiu, 2009

**C13**.**Amelia Bucur**, *Probleme fundamentale de geometrie si aspecte metodice,* Editura Universităţii Lucian Blaga, Sibiu, partea I, 2006, partea II, 2008

**C14**.**Amelia Bucur**, *Matematici aplicate în biologie şi ecologie,* Editura Universităţii Lucian Blaga Sibiu, 2008

**C15**.**Amelia Bucur**, Mioara Boncuţ, *Cercetări operaţionale. Note de curs şi seminar,* Editura Universităţii Lucian Blaga Sibiu, 2007

**C16**.**Amelia Bucur**, *Modelare socială. Suport pentru curs şi proiecte,* Editura Universităţii Lucian Blaga Sibiu, 2007

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**C19.Amelia Bucur**,*Curs de analiză matematică,*Editura Alma Mater, Sibiu, 2002

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**C25.Amelia Bucur,** Mioara Boncuţ, *Metode de însumare a seriilor Fourier si a integralelor improprii*, Editura Con-Edit, Sibiu, partea I, 1999

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**III.1. Articole ISI cu FI şi SRI:**

**Ris1.** **Amelia Bucur,** *Fixed Points for Multivalued Weighted Mean Contractions in a Symmetric Generalized Metric Space*, *Symmetry* 2020, *12*, 134; doi:10.3390/sym12010134, https://www.mdpi.com/2073-8994/12/1/134

**Ris2. Amelia Bucur,** Gabriela Dobrotă, Oana Dumitraşcu, *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, https://www.mdpi.com/2071-1050/11/7/2082

**Ris3.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, https://www.mdpi.com/2073-8994/11/2/155

**Ris4.**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, http://www.tandfonline.com/doi/pdf/10.1080/1331677X.2017.1383172

**Ris5.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, http://www.mdpi.com/2075-4701/7/5/163, mai 2017, 1-13

**Ris6.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, http://www.tandfonline.com/doi/full/10.1080/1331677X.2017.1314821, vol.30, 1, 2017, 629-646

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**Ris8.Amelia Bucur**, Claudiu Vasile Kifor, Silvia Cristina Mărginean, *Evaluation of the Quality and Quantity of Research Results in Higher Education*, Quality & Quantity, DOI 10.1007/s11135-016-0452-9, http://link.springer.com/article/10.1007/s11135-016-0452-9, on-line 9 nov.2016, pp.1-18; în rev.tipărită, vol.52, nr.1, 2018, 101-118

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**Ris10.**Constantin Oprean, **Amelia Bucur**, *Modeling the quality entropy of key programs of study*, Quality and Quantity, Olanda, 2014, DOI: 10.1007/s11135-014-0013-z, http://link.springer.com/article/10.1007/s11135-014-0013-z; vol.49, issue 2, 2015, 631-636

**Ris11.**Constantin Oprean, **Amelia Bucur**, *Modeling and simulation of the quality's entropy*, Quality and Quantity, Vol.47, Issue 6, Olanda, http://link.springer.com/article/10.1007%2Fs11135-012-9728-x#page-1, 2013, 3403-3409

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**Ris13.**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, http://dx.doi.org/10.1080/1331677X.2015.1106330, DOI 10.1080/1331677X.2015.1106330, on-line 7 dec.2015, în rev.tipărită ian.2016, 1-17

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**Ris16.Amelia Bucur**, *Aspects Regarding the Obtaining of the Optimum Quality*, Revista Metalurgia Internaţional, Bucureşti, vol.XVII, nr.6, 2012, 202-191, http://www.metalurgia.ro/Metalurgia_International_6_2012.pdf

**Ris17.Amelia Bucur**, *Examples of Using the SPSS and WinQSB Softwares for Collecting and Analyzing Data in Order to Obtain the Optimum Quality*, Revista Metalurgia Internaţional, Bucureşti, vol.XVII, nr.6, 2012, 187-191,
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## III.3. Articole în reviste de top/BDI:

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**Ris19. 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

**Ris20. Amelia Bucur**, *The Entropy of the Sustainable Development of Rural Tourism Organizations in the Context of Collaborative Economy,* Annals of the „Constantin Brâncuşi" University of Târgu Jiu, vol.2, 2018, 65-75

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**Ris23.** 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

**Ris24.Amelia Bucur**, *The spectra of Rhaly operator on lp (p >1),* Mathematica, Tome 41(64), nr.1,Cluj, 1999, 21-30

**Ris25.Amelia Bucur**, *The fine spectra of some Cesaro operators,* Journal of Dynamical systems and geometric theories, vol. 2,Iran,2004, 27-33

**Ris26.Amelia Bucur,** *Modelling of the Quality Management of the Human Resource Training,* Buletinul Ştiinţific al Academiei Forţelor Terestre, Sibiu, vol.XX, nr. 2(40), dec.2015, 137-142

**Ris27.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

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**Ris33.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

**Ris34.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 ISSN : 0447-9483, 2011,173-175

**Ris35.**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

**Ris36.**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

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**Ris41.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

**Ris42.**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

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**Ris45.**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

**Ris46.**Daniela Maria Flucsă, **Amelia Bucur**, Mihaela Alina Vanu, Mihail Aurel Ţîţu, *Qualitative Communication – a Characteristic of Sustainable Development,* Management of Sustainable Development,vol.1,nr.2,Sibiu,2009, 10-18

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**Ris50.Amelia Bucur**, Sossa-Caraseo C.A.,*Sofia Kovalevskaia:La mujer y matematica celeberrima de su epoca*, Conversus(ISSN 1665-2665), no.68, National Polytechnic Institute-Mexico City,Mexic,2008, 54-57

**Ris51.Amelia Bucur**, *General Mathematics-Fifteen Years of Publication*, General Mathematics,vol.16,no. 1,Sibiu,2008, 3-4

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**Ris53.**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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**IV. Lucrări publicate în volumele unor manifestări ştiinţifice: a) internaţionale recunocute (cu ISSN sau ISBN) din ţară şi străinătate(Vi) şi b) naţionale (Vn), inclusiv cotate ISI sau indexate în baze de date internaţionale**

**a)internaţionale recunocute (cu ISSN sau ISBN) din ţară şi străinătate(Vi)**

**Vi1.** Cristina Bătuşaru, **Amelia Bucur**, *Evaluation Methods of the Impact of Structural and Cohesion Funds on Economic and Social Development at Regional and National Level*, The 24th International Conference The Knowledge-Based Organization, Proc., Acad. F.Terestre Sibiu, 14-16 iunie 2018

**Vi2.**Gabriela Dobrotă, **Amelia Bucur**, *Education, Health and Financial Security – Determinants of Sustainable Development*, International Scientific Conference, Information Society and Sustainable Development, ISSD, Ediţia a IV-a, Tg.Jiu, Gorj, România, 28-29 aprilie 2017

**Vi3.**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

**Vi4.** Radu I. Neacşu, **Amelia Bucur,** *Cancerul oral - factori de risc şi biologia celulară,* Sesiunea ştiinţifică: Probleme de diagnostic şi tratament în tumorile maligne oro-maxilo-faciale, organizată de Spitalul Militar de Urgenţă Sibiu, de Colegiul Medicilor Sibiu, prin Departamentul Profesional Ştiinţific, Sibiu, 7.08.2015

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**Vi13.** 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, pp.517-524

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