

LIST OF SCIENTIFIC PAPERS AND RESEARCH PROJECTS
(10 pages)

A. Doctoral Thesis (Teza de doctorat)

Cristescu, G., Extension of concepts of behaviour and approximation to some particular domains of research (in Romanian: Extinderea noțiunilor de comportare și aproximare la unele domenii particulare ale cercetării), 1997, Universitatea „Babeș-Bolyai” din Cluj-Napoca.

B. Books published abroad (manuale, monografii, tratate, îndrumare etc. publicate în străinătate. (2 monographs)

1. **Cristescu, G., Lupșa, L., *Non-Connected Convexities and Applications*, Kluwer Academic Publishers, Dordrecht / Boston / London, 2002, 386 pagini, (ISBN 1-4020-0624-1) (colecția *Applied Optimization*, nr. 68)**
2. **Cristescu, G., *Behaviours - Implications and Applications in Convexity Recognition and in Topology*, Monographical Booklets in Applied & Computer Mathematics, MB-13, PAMM-Center, Technical University Budapest, Budapest, 2000, 136 pagini, (ISSN 1417-278 X)**

C. Books published in Romanian publishing houses CNCSIS classified (manuale, monografii, tratate, îndrumare etc. publicate în țară, la edituri recunoscute CNCSIS) (6 books)

3. **Cristescu, G., *Geometrie analitică, diferențială și computațională*, Ed. Mirton, Timișoara, 2010 (ISBN: 978-973-52-0766-3).**
4. **Szentesi, S., Cristescu, G., Moț, G., Franțescu, M., Vizental, M., Crișan, S., Dănoiu, D., *Modelarea echilibrului economic-ecologic pentru proiectele de investiții*, Ed. Universității „Aurel Vlaicu”, Arad, 2009 (apărută în 2010) (ISBN: 978-973-752-388-4)**
5. **Cristescu, G., Țarcă, M., Rezuș, O.M., *Concursul interjudețean de matematică „Memorialul Ștefan Dârțu” după un deceniu*, Ed. Mirton, Timișoara, 2009 (ISBN: 978-973-52-0735-9)**
6. **Cristescu, G., *Matematica managementului financiar*, Ed. Mirton, Timișoara, 2002, 200 pagini (ISBN 973-585-734-0)**
7. **Cristescu, G., Bota, C., *Ecuatii diferențiale și cu derivate parțiale*, Ed. Mirton, Timișoara, 2001, 232 pagini (ISBN 973-585-373-6)**
8. **Cristescu, G., Roman, R., Horvath, T., Barbonța, L., Borzak, T., *Comunicare profesională*, Ed. Mirton, Timișoara, 1999, 162 pagini (ISBN 973-585-021-4)**

D. Books published for internal use (manuale, monografii, tratate, îndrumare etc. publicate pe plan local) (5 books)

9. **Cristescu, G., *ALGADED*, vol.I - *Algebră liniară*, lit. Ed. Universității “Aurel Vlaicu” din Arad, Arad, 1991.**
10. **Cristescu, G., *ALGADED*, vol.II - *Geometrie analitică și diferențială*, lit. Ed. Universității “Aurel Vlaicu” din Arad, Arad, 1991.**
11. **Cristescu, G., *ALGADED*, vol.III - *Ecuatii diferențiale și cu derivate parțiale*, lit. Ed. Universității “Aurel Vlaicu” din Arad, Arad, 1991.**
12. **Cristescu, G., Roman, R., Borzak, T., Barbonța, L., *Comunicare profesională, Note de curs*, lit. Centrul Universității - Intreprinderi, Filiala Arad, Universitatea “Aurel Vlaicu” din Arad, Arad, 1998.**
13. **Mihuț, L., Cristescu, G., Margan, C., Gabor, I., *European Credits Transfer System, ECTS***

Editor in chief (4 volumes)

14. Gh. Halic, G. Cristescu (eds.), Proceedings of the Scientific Communications Meeting of “Aurel Vlaicu” University, Third Edition, Arad, 16th-17th of May 1996, Vol. 14 A, Universitatea “Aurel Vlaicu” din Arad, Arad, 1996 (ISBN 973-9778-0-0)
15. Gh. Halic, G. Cristescu (eds.), Proceedings of the Scientific Communications Meeting of “Aurel Vlaicu” University, Third Edition, Arad, 16th-17th of May 1996, Vol. 14 B, Universitatea “Aurel Vlaicu” din Arad, Arad, 1996
16. Gh. Halic, G. Cristescu (eds.), Lucrările Sesiunii de Comunicări Științifice ale Universității “Aurel Vlaicu” din Arad, Ediția a IV-a, 30-31 Octombrie 1997, Vol.I. Matematica, Universitatea “Aurel Vlaicu din Arad”, Arad, 1997 (ISBN 973-98365-0-X, ISBN 973-98366-1-8).
17. G. Cristescu (ed.), *Pe valuri de viață dorneană. Omagiu doamnei profesoare Aspazia Lungulescu la împlinirea vârstei de 80 de ani*, Ed. Mirton, Timișoara, 2005. (ISBN 973-661-609-6).

Care-taken volumes

18. Bulletins for Applied & Computer Mathematics, BAM – LXXXVI – A/98, Proceedings of the PAMM Conference PC-122/98, Arad, Technical University of Budapest, Budapest, 1998 (ISSN 0133-3526)

E. Books published online

Cristescu, G., *Geometrie analitică, diferențială și computațională*, 2011, <http://online.uav.ro>

F. Papers published in journals ISI classified and/or indexed by international databases (Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale) (63 papers)

ISI journals

1. Cristescu, G., Lupșa, L., Classes of Discrete Convexity Properties, *Discrete and Computational Geometry*, 31(3), February 2004, 461-490 (ISSN: 0179-5376 (paper); 1432-0444(on line)).
2. Cristescu, G., A property of the convolution of two convex functions, *Carpathian J. Math.*, 20(1), 2004, 15 – 20 (ISSN 1584-2851).
3. Cristescu, G., Jitaru, L., Szentesi, S., Bi-Level Generalized Quasi-Convex Optimization in Ecologic-Economic Efficiency, *American Institute of Physics Conference Proceedings* 1184, 254-261, 2009 (ISBN 978-0-7354-0750-9)
4. Găianu, M., Cristescu G., Onchiș D. M., Erosion based method for quantification of facial palsy, *Int. J. Comp. Commun. & Control*, 2013, 8(3), 416–424, (ISSN 1841-9836, ISSN-L 1841-9836)
5. Cristescu, G., Noor, M.A., Awan, M.U., Bounds of the second degree cumulative frontier gaps of functions with generalized convexity, *Carpathian J. Math.*, 31(2), 2015, 173-180 (ISSN 1584-2851)
6. Noor, M.A., Cristescu, G., Awan, M.U., Generalized fractional Hermite-Hadamard inequalities for twice differentiable s-convex functions, *Filomat*, 29:4(2015), 807-815 (ISSN 0354-5180)
7. Cristescu, G., Noor, M.A., Noor, K.I., Awan, M.U., Some inequalities for functions having Orlicz-convexity, *Applied Math. Comp.*, 273 (2016), 226–236 (ISSN 0096-3003)
8. Cristescu G., Noor M.A., Awan M.U., Some inequalities for functions having an s-convex derivative of superior order, *Mathematical Inequalities and Applications*, Volume 19, Number 3 (2016), 893–907 907 (ISSN: 1331-4343 (print), 1848-9966 (online).)

9. Noor M.A., Cristescu G., Awan M.U., Bounds having Riemann type quantum integrals via strongly convex functions, *Studia Scientiarum Mathematicarum Hungarica* (acceptat pentru publicare)

Journals indexed by international databases

10. Cristescu, G., Cones in a convexity space; Ordered Convexity Spaces, *Mathematica - L'Analyse Num. Th. Approx., Révue d'Analyse Num. Th. Approx* 9, 2(1980), 157-162;
11. Cristescu, G., Un théorème de type Carathéodory dans des espaces à convexité produit, *Itin. Sem. Funct. Equations, Approx., Conv.*, Cluj-Napoca, 1983, 35-40;
12. Cristescu, G., Behaviours, *Proc. Sci. Com. Meeting of the "Aurel Vlaicu" University*, Third Edition, Arad, 16-17 May 1996, Vol. 14A, 25 - 33;
13. Cristescu, G., Convexities with respect to a set and two behaviours, *Proc. Sci. Com. Meeting of the "Aurel Vlaicu" University*, Third Edition, Arad, 16-17 May 1996, Vol. 14A, 35 - 43;
14. Cristescu, G., Convexity close by undetectable concavity, *Proc. Sci. Com. Meeting of the "Aurel Vlaicu" University*, Third Edition, Arad, 16-17 May 1996, Vol. 14A, 45-50;
15. Cristescu, G., Sequences of convexities converging to the classical convexity, *Sem. Itin. "Tiberiu Popoviciu" Ec. Funct., Aprox., Conv.*, Cluj-Napoca, 21mai-26mai 1997, 27-30;
16. Cristescu, G., Behaviours and Allure, *Proc. Sci. Com. Meeting of the "Aurel Vlaicu" University*, Fourth Edition, Arad, 29-30 October 1997, 19-28;
17. Cristescu, G., A new route to the Convexity related to the Concavity Coarseness, *Proc. Sci. Com. Meeting of the "Aurel Vlaicu" University*, Fourth Edition, Arad, 29-30 October 1997, 29-38;
18. Cristescu, G., On the Approximation of the classical Convexity, *Proc. Sci. Com. Meeting of the "Aurel Vlaicu" University*, Fourth Edition, Arad, 29-30 October 1997, 39-46;
19. Cristescu, G., Convexity related to the Coarseness of the Concavity, *Mathematica - L'Analyse Num. Th. Approx., Révue d'Analyse Num. Th. Approx* 26, 1-2(1997) 39-48;
20. Cristescu, G., Topologies compatible with the connectivity in networks (I), *Carpathian J. Math. (fost Bul. Ştii. Univ. Baia Mare, Ser. B, Matematică-Informatică)*, XIV(1998), Nr. 2, 213-226;
21. Cristescu, G., On the error estimation in the replacement of the classical convexity by an approximate convexity, in *Liana Lupşa & M. Ivan (eds.) Analysis, Functional Equations, Approximation and Convexity, Proc. Conf. Held in Honour of Professor Elena Popoviciu on the Occasion of Her 75th Birthday*, Ed. Carpatica, Cluj-Napoca, 1999, 55-61;
22. Cristescu, G., Convexities induced by behaviours, their properties and applications, in *Popoviciu, E. (ed.), Research on Theory of Allure, Approximation, Convexity and Optimization*, Ed. Srima, Cluj-Napoca, 1999, 22-38;
23. Cristescu, G., On some Approximate Convexities, *Proceedings of The 8 th Symposium of Mathematics and its Applications, 1999 November 4-7, "Politehnica" University of Timișoara*, 1999, 47-54;
24. Lupşa, L., Cristescu, G. $((S, s), (L_i)_{i \in I}, A, B, r)$ convexity at a point and $((S, s), (L_i)_{i \in I}, A, B, r)$ starlike sets, *Carpathian J. Math. (fost Buletinul Ştiinţific al Universităţii din Baia Mare, Seria B)* 2000; XVI,1: 59-64.
25. Cristescu, G., Topologies compatible with the connectivity in networks (II), *Carpathian J. Math. (fost Bul. Ştii. Univ. Baia Mare, Ser. B, Matematică-Informatică)*, XVII(2000), Nr. 2, 369-384.
26. Cristescu, G., Lupşa, L. Three classes of generalised convexity properties. *Proc. Ninth Symp. Math. Appl.*, November 1-4, 2001, Timișoara, Politehnica University of Timișoara Publishing House, 2001, 67-74.
27. Lupşa, L., Cristescu, G. Induced convexity and the problem of the best induced approximation. *Révue d'Analyse Num. et la Th. de l'Approx.* 2001; 30, 1: 55-59.
28. Cristescu, G., Lupşa, L., Generalised epigraphic and pseudo-epigraphic convex functions,

- Analele Universității din Oradea, Fascicula Inginerie Managerială și Tehnologică, Oradea, I(2002), 61-66.
29. Cristescu, G., Lupșa, L., General convexity for functions associated to general convexity for sets, *Buletinul Științific al Universității "Politehnica" din Timișoara, Seria Matematică-Fizică*, Tom 46(60), 2, 2001, 54 - 61.
 30. Cristescu, G., Lupșa, L., Subclasses of intersectional convexities for sets, *Carpathian J. Math. (fost Bul. Știi. Univ. Baia Mare, Ser. B, Matematică-Informatică)*, XVIII(2002), Nr. 1, 23-30.
 31. Cristescu, G., Lupșa, L., (f, Y) – Induced best approximation with respect to a subspace, *Carpathian J. Math. (fost Bul. Știi. Univ. Baia Mare, Ser. B, Matematică-Informatică)*, XVIII(2002), Nr. 2, 199-204.
 32. Cristescu, G., Lupșa, L., Generalised graph related convex functions, *Buletinul Științific al Universității "Politehnica" din Timișoara, Seria Matematică-Fizică*, Tom 47(61), 1, 2002, 39-44.
 33. Cristescu, G., Stoica, C., Approximation of the curvature of a function, *Analele Universității din Oradea*, Oradea, 2003, vol.II(XII): 28-36, (ISSN 1583-0691)
 34. Cristescu, G., Duality and the Galois connection between two convexity spaces, *Buletinul Științific al Universității "Politehnica" din Timișoara, Seria Matematică-Fizică*, 48(62), 2, 2003, pag. 27-34.
 35. Lupșa, L., Cristescu, G., Some concepts of generalized convex functions (1), *Révue d'Analyse Num. et Th. de l'Approx.*, 31 (2) 2002, pp. 171-177 (ISSN: 1222-9024).
 36. Cristescu, G., Hadamard type inequalities for $\{\phi\}$ - convex functions, *Annals of the University of Oradea, Fascicle of Management and Technological Engineering, CD-Rom Edition, Vol. III (XIII), 2004* (ISSN 1583 –0691).
 37. Cristescu, G., On an inequality for convex functions, in Lupșa, L., Ivan, M. (eds.) *Analysis, Functional Equations, Approximation and Convexity, Proceedings of the Conference Held in Honour of Professor Elena Popoviciu on the Occasion of Her 80th Birthday*, Ed. Risoprint, Cluj-Napoca, 2004, pag. 69-76.
 38. Cristescu, G., Improved Integral Inequalities for Products of Convex Functions, *Journal of Inequalities in Pure and Applied Mathematics*, 6(2), 2005, [On line: <http://jipam.vu.edu.au>] (ISSN(electronic): 1443-5756) (12 pagini)
 39. Cristescu, G., A purification theorem for extended form perfect information games, *Annals of the Oradea University. Fascicle of Management and Technological Engineering, CD-ROM Edition, IV(XIV), 2005*, 145-152 (ISSN 1583 –0691). (7 pagini)
 40. Cristescu, G., Stoica, C., A minimax property for a class of perfect information games, *Buletinul Științific al Universității "Politehnica" din Timișoara, Seria Matematică-Fizică*, 50(64), 1, 2005, 8 pagini (ISSN: 1224-6069)
 41. Cristescu, G., Jitaru, L., Metric properties of an expanded metal plane structure, *Analele Universității din Oradea*, Oradea, 2006, vol.V(XV): 199-204, (ISSN 1583-0691)
 42. Jitaru, L., Cristescu, G., Analytical description of an expanded metal plane structure, *Analele Universității din Oradea*, Oradea, 2006, vol.V(XV): 1081-1090, (ISSN 1583-0691)
 43. Jitaru, L., Cristescu, G., Mathematical modelling the force-displacement dependence for expanded metal threads, *Analele Universității din Oradea*, Oradea, 2007, vol.VI(XVI): 365-372, (ISSN 1583-0691)
 44. Cristescu, G., Jitaru, L., Reduced Bézier surfaces in the behaviour of the expanded metal threads, *Analele Universitatii de Vest, Timișoara, Seria Matematica-Informatica*, XLV, 1(2007), 171-182 (ISSN 1841-3293).
 45. Szentesi, S.G., Cristescu, G., Environmental valuation Techniques, *Analele Universității din Oradea*, Oradea, 2008, vol.VII(XVII): 2782-2789, (ISSN 1583-0691).
 46. Cristescu, G., Extra-financial multiple criteria optimization model for assessing the ecologic – economic efficiency of an environment policy, *Analele Universității din Oradea*, Oradea, 2008, vol.VII(XVII): 2067-2072, (ISSN 1583-0691).

47. Cristescu, G., Neamțiu, L., Szentesi, S.G., Multiple Criteria Optimization Models for solving Contemporary Issues in Decision Making, *Proceedings of the Workshop on OR and Ethics, Third Human Centered Processes Conference (HCP – 2008)*, Delft University of Technology, June 8-12 2008, Delft, paper 11, 121-131, 11 pages.
48. Müller, V., Cristescu, G., Characteristics of the dynamic regime of a three phase induction machine at time modulation power-supply, *Scientific Bulletin of the Politehnica University of Timișoara, Romania, Transactions of Power Engineering*, 53(67) (2008), 167-170.
49. Cristescu, G., Bocîi, S.L., Jitaru, L., Assessing the economic-ecologic efficiency of an investment policy, *Creative Mathematics and Informatics* Vol. 17, No.3, 381-391, 2008.
50. Cristescu, G., Szentesi, S.G., Ecologic-economic efficiency by non-numerical multiple criteria decision methods, *Annals of the Oradea University, Fascicle of Management and Technological Engineering*, VIII (XVIII), 1098-2006, 2009.
51. Szentesi, S.G., Cristescu, G., Modern numerical approach to economic-environmental balance for investment projects, *Annals of the Oradea University, Fascicle of Management and Technological Engineering*, VIII (XVIII), 2976-2982, 2009.
52. Cristescu, G., Găianu, M., Shape properties of Noor's convex sets, *Proceedings of the Twelfth Symposium of Mathematics and its Applications, Timișoara, November 5-7, 2009*, 91-100, 2009.
53. Borlea, D., Cristescu, G., A Generalized Transportation Model in Social Assistance Management, *Annals of the Oradea University, Fascicle of Management and Technological Engineering*, IX (XIX), Nr. 1, 4.40 – 4.46, 2010.
54. Cristescu, G., Jitaru, L., A bilevel choice method of ecologic-economic modernization projects, *Annals of the Oradea University, Fascicle of Management and Technological Engineering*, IX (XIX), Nr. 1, 4.92 – 4.98, 2010.
55. Cristescu, G., Kovács, E., Takači, A., Professor Dr. Francis Fazekas, shining figure among the mathematicians of the XX-th Century, *Proceedings of the Twelfth Symposium of Mathematics and its Applications, Timișoara, November 5-7, 2009*, 17-20, 2009.
56. Cristescu, G., Găianu, M., Detecting the non-Convex sets with Youness and Noor types convexities, *Buletinul Științific al Universității "Politehnica" din Timișoara, Seria Matematică-Fizică*, 55(69), 1, 20-27, 2010.
57. Cristescu, G., Găianu, M., Computer aided optimization techniques based on generalized convex maps, *Annals of the Oradea University, Fascicle of Management and Technological Engineering*, X (XX), Nr. 1, 3.49 – 3.54, 5.58–5.63, 2011.
58. Găianu, M., Cristescu, G., Restricted Oriented Slack Convexity and Extremal Elements with Respect to a Set, *Analele Universității de Vest, Timișoara, Seria Matematică – Informatică*, L, 1, (2012), 27– 37 (ISSN 1841-3293).
59. Cristescu, G., Jordan Type Representation of Functions with Generalized High Order Bounded Variation, in (Eds.) Bandle C., Gilányi, A., Losonczi, L., Plum, M, *Inequalities and Applications 2010, Dedicated to the Memory of Wolfgang Walter, International Series on Numerical Mathematics 161*, Springer, 2012, LXX, 151-164 (ISBN: 978-3-0348-0248-2).
60. Cristescu G., Dăianu, D., Professor Borislav Crstici (1924–2014), the right man in the right place at the right time, *Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity*, vol 12, 2014, pp. 23–32 (ISSN 1584-4536).
61. Cristescu G., Găianu, M., Awan, M.U., Regularity properties and integral inequalities related to $(k; h_1; h_2)$ -convexity of functions, *Annals of West University of Timișoara, Mathematics and Computer Science*, LIII, 1(2015), 19-35 (ISSN 1841-3293).
62. Cristescu G., Noor M.A., Awan M.U., Găianu M., Integral inequalities for (Orlicz, Breckner) co-ordinated convex functions on rectangles, *Analele Universității de Vest, Timișoara, Seria Matematică – Informatică*, LIII, 2, (2015), 17-28 (ISSN 1841-3293).
63. Awan M.U., Cristescu G., Noor M.A., Riahi, L., Upper and lower bounds for Riemann type quantum integrals of preinvex and preinvex dominated functions, *U.P.B. Sci. Bull., Series A*, acceptat pentru publicare (ISSN 1223-7027)

G. Papers included in journals published abroad (18 papers)

1. Cristescu, G., Approximation of the classical convexity in totally bounded metric spaces, *Bulletins for Applied & Computer Mathematics*, LXXXV-B, 1495/'98, Budapest, 1998,191-196;
2. Cristescu, G., On the concavity coarseness of the tame Cantor sets, *Bulletins for Applied & Computer Mathematics*, LXXXVI-A, 1514/'98, Budapest, 1998,37-46;
3. Cristescu, G., Digital topologies compatible with the connectivity by means of arcs in more than 3D, *Bulletins for Applied & Computer Mathematics*, LXXXVI-B, 1585/'98, Budapest, 1998,157-166;
4. Cristescu, G., Convexity Spaces generated by means of Behaviours, *Bulletins for Applied & Computer Mathematics*, LXXXVIII, 11617/'99, Budapest, 1999,51-58;
5. Cristescu, G., Cristescu, C., Topological investigations on psalmody musical signs, *Bulletins for Applied & Computer Mathematics*, LXXXVIII, 1648/'99, Budapest, 1999, 155-164;
6. Cristescu, G., An approach of the training activity in new communications technology, *Present Status and Future of Continuing Education, Poznan University of Technology*, September 1997, 52-54;
7. Cristescu, G., On the error estimation in the approximation of the convexity, *Bulletins for Applied & Computer Mathematics*, BAM-1696/'99 XC-B, Budapest, 1999, 117-124;
8. Cristescu, G., On the shape of the 3-point α -convex sets, *Bulletins for Applied & Computer Mathematics*, BAM-1724/2000 XCI, Budapest, 2000, 79-86;
9. Cristescu, G., Basic properties of α -convex sets, *Bulletins for Applied & Computer Mathematics*, BAM-1738/2000 XCII-A, Budapest, 2000, 75-80;
10. Cristescu, G. E-Convexity of superior order of functionals on a metric space. *Bulletins for Applied & Computer Mathematics*, Budapest 2000; BAM – 1775/2000 XCII: 65-72.
11. Cristescu, G., Lupşa, L. On a Class of Convexity Properties applied in Mathematical Programming. *Bulletins for Applied & Computer Mathematics*, Budapest 2001; BAM – 1792/2001 XCIV: 151-160.
12. Cristescu, G. Generalized convexity and a weak approximation problem. *Bulletins for Applied & Computer Mathematics*, Budapest 2001; BAM-1906/2001 XCVI-C: 143-150.
13. Cristescu, G., Lupşa, L. Classes of $(a, e) - ((S, s), R)$ convexities. *Bulletins for Applied & Computer Mathematics*, Budapest; 2001, BAM-1902/2001 XCVII-C/'01: 115-124.
14. Cristescu, G., Lupşa, L., Intersectional convexity concepts for sets, *Bulletins for Applied & Computer Mathematics*, Budapest; 2002, BAM-1972/2002 XCIX-'02: 120-128.
15. Cristescu, G., Lupşa, L., Classes of discrete convexity properties, *Bulletins for Applied & Computer Mathematics*, Budapest; 2002, BAM-1986 -C/2002: 63-72.
16. Cristescu, G., Lupşa, L., (f, Y, M) – Induced best approximation, *Bulletins for Applied & Computer Mathematics*, Budapest; 2002, BAM 2040 - CI/2002: 43-49.
17. Cristescu, G., Stoica, C., Estimation of the curvature of the Bernstein approximation, *Bulletins for Applied & Computer Mathematics*, Budapest; 2003, BAM 2085 - CIII/2003: 107-114.
18. Cristescu, G., Dualities between convexity structures, *Bulletins for Applied & Computer Mathematics*, Budapest; 2003, BAM – 2076A (CIV)/2003 (2095): 33-42.

H. Papers published in Romanian journals, CNCSIS classified (12 papers)

1. Cristescu, G., Bota, C., Representation Theorems for Functions of Bounded E-Variation, *Anuarul Universităţii "Aurel Vlaicu" din Arad*, Universitatea "Aurel Vlaicu din Arad, Arad, 2000, 39 – 44;

2. Cristescu, G., Functions of bounded E-variation, in Popoviciu, E. (ed.), *Séminaire de la Théorie de la Meilleure Approximation, Convexité et Optimisation, Cluj - Napoca, 26 Octobre-29 Octobre, 2000*, Ed. Srima, Cluj-Napoca, 2000, 73 – 85 ;
3. Cristescu, G., Topological properties of α -convex sets, *Tiberiu Popoviciu Tinerant Seminar of Functional Equations, Approximation and Convexity, Cluj – Napoca, May 23-29, 2000*, Ed. Srima, Cluj – Napoca, 2000, 65-68;
4. Lupşa, L., Cristescu G. About a general notion of convexity. In E. Popoviciu et all. *Proceedings of the Tiberiu Popoviciu Itinerant Seminar on Functional Equations, Approximation and Convexity*. Cluj-Napoca: SRIMA, 2001: 81-88.
5. Lupşa, L., Cristescu G. Topology with respect to a given set. In *Seminar of Best Approximation Theory, Convexity and Optimisation*, E. Popoviciu, M. Ivan, L. Lupşa, Şt. Ţigan, eds. Cluj-Napoca: SRIMA, 2001: 47-60.
6. Lupşa, L., Cristescu G., Some concepts of generalised convex functions (II). In E. Popoviciu et all. *Proceedings of the Tiberiu Popoviciu Itinerant Seminar on Functional Equations, Approximation and Convexity*. Cluj-Napoca: SRIMA, 2002: 131-142.
7. Cristescu, G., Lupşa, L., (H, C) – convex set – valued functions, *Anuarul Universităţii “Aurel Vlaicu” din Arad*, Universitatea “Aurel Vlaicu din Arad, Arad, 2002, 45 – 50.
8. Cristescu, G., Lupşa, L., Two levels hierarchy of convexities for sets, In *Seminar of Best Approximation Theory, Convexity and Optimisation*, E. Popoviciu, M. Ivan, L. Lupşa, Şt. Ţigan, eds. Cluj-Napoca: SRIMA, 2002: 43-77.
9. Cristescu, G., Stoica, C., An equilibrium theorem for perfect information games, *Analele Universităţii “Aurel Vlaicu” din Arad, Seria Matematică – Informatică*, 2004, 16 –21 (ISSN: 1582-344X) (6 pagini)
10. Cristescu, G., Hadamard type Inequalities for Convolution of h-Convex Functions, *Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity*, 8, 3-12, 2010.
11. Cristescu, G., Jitaru, L., Neamţiu, L., Szentesi, S.G., Decision making based on assessing the welfare gained, *J. Econ. Business Res.*, XVI, 2, 7-25, 2010.
12. Szentesi, S.G., Cristescu, G., Environmental monetary valuation – an important step to estimate the economic-ecologic balance, *J. Econ. Business Res.*, XVI, 2, 26-39, 2010.

I. Papers included in proceedings volumes of international conferences (24 papers)

1. Cristescu, G., Conuri în spaţii de convexitate, *Sem. Itin. Ec. Funct., Aprox., Conv.*, Cluj-Napoca, 16-17 mai 1980, 25-30;
2. Cristescu, G., Conuri normale în spaţii de convexitate, *Sem. Itin. Ec. Funct., Aprox., Conv.*, Timişoara, 7-8 noiembrie 1980, 79;
3. Cristescu, C., Cristescu, G., O tratare matematică a gândirii ciclice în muzica renascentistă, *Universitatea din Cluj-Napoca, Laboratorul de Cercetări Interdisciplinare, Sesiune de Comunicări, 17 noiembrie 1983*, 19-22;
4. Cristescu, G., Some remarks about the space of classifications, *Lucrările Sesiunii de Comunicări Ştiinţifice*, Universitatea “Aurel Vlaicu” din Arad, mai 1992, vol. I Matematică-Informatică, 42-47;
5. Cristescu, G., Spaţiul metric al T-clasificărilor, *Lucrările Sesiunii de Comunicări Ştiinţifice*, Universitatea “Aurel Vlaicu” din Arad, mai 1992, vol. I Matematică-Informatică, 48-50;
6. Cristescu, G., Mulţimi vagi convexe, *Analele Universităţii din Oradea*, Fascicola Matematică tom III(1993), 51-56;
7. Cristescu, G., Aproximări care intervin în studiul imaginilor, *Lucrările Sesiunii de Comunicări Ştiinţifice*, Universitatea “Aurel Vlaicu” din Arad, 5-6 mai 1994, vol. I Matematică-Informatică, 157-163;
8. Cristescu, G., Sets looking convex - like, *5th Symposium in Descriptive Geometry*,

- Design, Engineering and Computer Graphics*, “*Graphics, a scientific language*”, 17-19th June 1996, Vol. III, Part I, Timișoara, 725 - 730;
9. Cristescu, G., A geometrical characterization of the sets looking convex-like, *Analele Universității “Eftimie Murgu” Reșița*, I (1996), 121-128;
 10. Gheorghiu, N., VasIU, L., Cristescu, G., Pele, A., Marta, C., La formation continue dans le contexte de la reforme de l’enseignement superieur en Roumanie, Proceedings of the National TEMPUS Conference University / Enterprise Cooperation – A Double Way Connection, University of Craiova, 15 – 16 November 1996, 71-74.
 11. Cristescu, G., On the Hexagonal Connectivity, *Academia Tehnică Militară, A XXVII-a Sesiune de Comunicări Științifice cu Participare Internațională, Secțiunea 18 Matematică și Fizică, Subsecțiunea 1 Matematică, București, 13-14 noiembrie 1997*, 108 -115;
 12. Cristescu, G., Convexity and Concavity Coarseness of some Fractals, *Academia Tehnică Militară, A XXVII-a Sesiune de Comunicări Științifice cu Participare Internațională, Secțiunea 18 Matematic și Fizică, Subsecțiunea 1 Matematică, București, 13-14 noiembrie 1997*, 100 -107;
 13. Cristescu, G., Weak convergence of some convexities to the classical convexity, *A XXVIII-a Sesiune de Comunicări Științifice cu participare internațională organizată cu ocazia sărbătoririi a 50 de Ani de la Înființarea Academiei Tehnice Militare, București, 21-22 Octombrie*, Vol. 19, Matematică, 1999, 86-91;
 14. Cristescu, G., Aluri conectate la clase de probleme, Seminarul de Teoria Celei Mai Bune Aproximari, Convexitate si Optimizare. 40 de ani de la infiintarea Seminarului. Cercetari ale membrilor Seminarului prezentate joi,14 decembrie 2000, Cluj-Napoca, România, Universitatea “Babeș-Bolyai” din Cluj – Napoca, 2000, 5-7;
 15. Cristescu, G., Lupșă, L., Generalised convex sets. In *Academia Tehnică Militară, A XXIX-a Sesiune de Comunicări Științifice cu Participare Internațională “Tehnologii Moderne în Secolul XXI”*, Secțiunea Matematică și Fizică, Subsecțiunea 1 Matematică, București, 15-16 Noiembrie 2001, Military Technical Academy Publishing House, Bucharest 2001: 89-94.
 16. Cristescu, G., Generalised convex functions and related convex programming. In *Academia Tehnică Militară, A XXIX-a Sesiune de Comunicări Științifice cu Participare Internațională “Tehnologii Moderne în Secolul XXI”*, Secțiunea Matematică și Fizică, Subsecțiunea 1 Matematică, București, 15-16 Noiembrie 2001, Military Technical Academy Publishing House, Bucharest 2001: 85-88.
 17. Cristescu, G., Properties of the dualities between convexity structures, *Modern Technologies of the 21st Century, The 30th Internationally Attended Scientific Conference of the Military Technical Academy, Bucharest, 6-7 November 2003*, Ministry of Defence, Department of Armaments, Military Technical Academy, 2003, pag. 30-35 (ISBN 973-640-012-3).
 18. Cristescu, G., Properties of Hermite – Hadamard type for a class of E-quasiconvex functions, în M. Megan (ed.), *Proceedings of the 9th National Conference of the Romanian Mathematical Society, Lugoj, 6-7 Mai 2005*, Ed. Universității de Vest, Timișoara, 2005, 140 – 151 (ISBN: 973-7608-37-2) (12 pagini)
 19. Jitaru, L., Cristescu, G., Sporea, I., Determination of the Clearing Angle of the Expanding Knife, according to the Stress Conditions of the Deformed Elements within the Expanded Metal Sheet, Romania Ministry of Defence “Nicolae Bălcescu” Land Forces Academy, The Knowledge Based Organization, The 13th International Conference, Sibiu, 22nd – 25th November 2007, Land Forces Academy Publishing House.
 20. Jitaru, L., Cristescu, G., Sporea, I., Determination of the Position Angle of the

Expanding Knife, according to the Stress Conditions of the Deformed Elements within the Expanded Metal Sheet, Romania Ministry of Defence “Nicolae Bălcescu” Land Forces Academy, The Knowledge Based Organization, The 13th International Conference, Sibiu, 22nd – 25th November 2007, Land Forces Academy Publishing House.

21. Jitaru, L., Cristescu, G., Sagging and induced stress of the light-gauge sheer submitted to the expansion process, *AFASES 2009 – The International Session of XI-th Scientific Papers “Scientific Research and Education in the Air Force”*, 20-22 May 2009, Braşov, Management, 203-207, 2009.
22. Cristescu, G., Jitaru, L., The regulation of the power for the modernized electrical railway-engine BO-BO of 3400KW, *AFASES 2009 – The International Session of XI-th Scientific Papers “Scientific Research and Education in the Air Force”*, 20-22 May 2009, Braşov, Electrical and Electronical Engineering, 687-690, 2009.
23. Cristescu, G., Boundaries of Katugampola fractional integrals within the class of $(h_1; h_2)$ -convex functions, *ISREIE*, (2016), 16-23.
24. Cristescu, G., Weighted inequalities for Katugampola fractional integral within the class of $(h_1; h_2)$ -convex functions, *ISREIE*, (2016), 24-33.

J. Other papers (5 papers)

1. Cristescu, G., Neamţu, T., Balasz, B., Factori perturbatori în activitatea de evidenţă în comerţ şi soluţii practice ale firmei S.C. PROMPT S.R.L., *Lucrările Sesiunii de Comunicări Ştiinţifice*, Universitatea “Aurel Vlaicu” din Arad, 5-6 mai 1992, vol. II Economie, 98-104;
2. Cristescu, C., Cristescu, G., Asupra tipologiei repertoriului cu variabilitate maximă, *Anuarul Institutului de Etnografie şi Folclor “Constantin Brăiloiu”*, Serie nouă, Ed. Academiei Române, Tom 4(1993), 161-170;
3. Cristescu, G., Avangardă şi curaj în didactica unor dascăli dorneni, în G. Cristescu (ed.), *Pe valuri de viaţă dorneană. Omagiu doamnei profesoare Aspazia Lungulescu la împlinirea vârstei de 80 de ani*, Ed. Mirton, Timişoara, 2005, 23 –33 (ISBN: 973-661-609-6) (11 pagini)
4. Jitaru, L., Cristescu, G., Proiecte de îmbunătăţire a condiţiilor de muncă ale mecanicului de locomotivă, *Proceedings of the International Symposium “Research and Education in an Innovation Era”, Engineering Sciences*, Universitatea “Aurel Vlaicu” din Arad, 20-21 Noiembrie 2008, 183-190, 2008.
5. Cristescu, G., Petru Soltan şi ieterele sale, în Ciobanu, M., Cataranciuc, S. (ed.) *Petru Soltan la 80 de ani*, Academia de Ştiinţe a Moldovei, Universitatea de Stat din Moldova, Universitatea de Stat din Tiraspol, Chişinău, 2011 (Tipogr. AŞM), pag. 100-103 (ISBN 978-9975-62-293-6).

K. Research projects

Projects obtained by national competition

1. ID – 1239 *Elaborarea unui model de management al proiectelor de investiţii în vederea realizării unui echilibru dinamic economic-ecologic-* Director de proiect Silviu Gabriel Szentesi, perioada de desfăşurare 2007-2010 **Member of the team**

Projects obtained by international competition

1. TEMPUS JEP 07415-94, Création d’un Centre Universités – Entreprises à l’Ouest de la Roumanie, proiect coordonat de Université d’Artois, I.U.T. Béthune, Franţa, coordonator prof. dr. Jean Claude Andricq, termen de desfăşurare 1994-1997. **Director from the part of Aurel Vlaicu University (according to O.M. 2849/19.XI.2008, equivalent to project director)**

2. Contractul Instituțional al Universității “Aurel Vlaicu” din Arad cu Uniunea Europeană nr. 85956 – IC – 2 – 2000 – 1- Ro – ERASMUS, “Pachetul informațional ECTS al Universității “Aurel Vlaicu” din Arad”, condus de prof. dr. Lizica Mihaș, termen de desfășurare 2000-2003.
Member of the team
3. ACAMiMM - Analytic and Computational Applied Mathematical Methods and Models – proiect ERASMUS, condus de Kazimierz Wielki University, Bydgoszcz, Polonia, director de proiect Dr. Katarzyna Chmielewska, proiect câștigat în anul 2011, termen de desfășurare 2011-2013.
Director from the part of Aurel Vlaicu University (according to O.M. 2849/19.XI.2008, equivalent to project director)

Contracte cu mediul economic

4 proiecte în perioada 1992 - 2001

Funcția în cadrul proiectului: Director proiect

Awards.

2003 “Babeș – Bolyai” University of Cluj-Napoca awarded the book Cristescu, G., Lupșă, L., *Non-Connected Convexities and Applications*, Kluwer Academic Publishers, Dordrecht / Boston / London, 2002, as **the best book published in 2002** by members of “Babeș – Bolyai” University of Cluj-Napoca

Arad, 18 ianuarie 2017

Prof. univ. dr. Gabriela Cristescu