Prof. univ. dr. GABRIELA CRISTESCU

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 noţiunilor de comportare şi aproximare la unele domenii particulare ale cercetării), 1997, Universitatea „Babeş-Bolyai" din Cluj-Napoca.

B. Books published abroad (manuale, monografii, tratate, îndrumare etc. publicate în străinătate. (2 monographs)
1. **Cristescu, G.**, Lupşa, L., *Non-Connected Convexities and Applications*, Kluwer Academic Publishers, Dordrecht / Boston / London, 2002, 386 pagini, (ISBN 1-4020-0624-1) (colecţia *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 ţară, la edituri recunoscute CNCSIS) (6 books)
3. **Cristescu, G.**, *Geometrie analitică, diferenţială şi computaţională,* Ed. Mirton, Timişoara, 2010 (ISBN: 978-973-52-0766-3).
4. **Szentesi, S.**, **Cristescu, G.**, **Moţ, G.**, **Franţescu, M.**, **Vizental, M.**, **Crişan, S.**, **Dănoiu, D.**, *Modelarea echilibrului economic-ecologic pentru proiectele de investiţii*, Ed. Universităţii „Aurel Vlaicu", Arad, 2009 (apărută în 2010) (ISBN: 978-973-752-388-4)
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6. **Cristescu, G.**, *Matematica managementului financiar,* Ed. Mirton, Timişoara, 2002, 200 pagini (ISBN 973-585-734-0)
7. **Cristescu, G.**, Bota, C., *Ecuaţii diferenţiale şi cu derivate parţiale,* Ed. Mirton, Timişoara, 2001, 232 pagini (ISBN 973-585-373-6)
8. **Cristescu, G.,** Roman, R., Horvath, T., Barbonţa, L., Borzak, T., *Comunicare profesională,* Ed. Mirton, Timişoara, 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. Universităţii "Aurel Vlaicu" din Arad, Arad, 1991.
10. **Cristescu, G.**, *ALGADED*, vol.II - *Geometrie analitică şi diferenţială,* lit. Ed. Universităţii "Aurel Vlaicu" din Arad, Arad, 1991.
11. **Cristescu, G.**, *ALGADED*, vol.III - *Ecuaţii diferenţiale şi cu derivate parţiale ,* lit. Ed. Universităţii "Aurel Vlaicu" din Arad, Arad, 1991.
12. **Cristescu, G.**, Roman, R., Borzak, T., Barbonţa, L., *Comunicare profesională, Note de curs,* lit. Centrul Universităţi - Intreprinderi, Filiala Arad, Universitatea "Aurel Vlaicu" din Arad,

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13. Mihuţ, L., **Cristescu, G.**, Margan, C., Gabor, I., *European Credits Transfer System, ECTS 2000-20004*, Editura Universităţii "Aurel Vlaicu", 2004

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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 Ştiinţifice ale Universităţii "Aurel Vlaicu" din Arad, Ediţia 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 viaţă dorneană. Omagiu doamnei profesoare Aspazia Lungulescu la împlinirea vârstei de 80 de ani*, Ed. Mirton, Timişoara, 2005. (ISBN 973-661-609-6).

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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, diferenţială şi computaţională, 2011,* http://online.uav.ro

F. Papers published in journals ISI classified and/or indexed by international databases (Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale) (66 papers)

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2. Cristescu, G., A property of the convolution of two convex functions, *Carpathian J. Math.*, 20(1), 2004, 15 – 20 (ISSN 1584-2851).
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4. Găianu, M., Cristescu G., Onchiş 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)

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13. 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;

14. Cristescu, G., Un théorème de type Carathéodory dans des espaces à convexité produit, *Itin. Sem. Funct. Equations, Approx., Conv.,* Cluj-Napoca, 1983, 35-40;

15. Cristescu, G., Behaviours, *Proc. Sci. Com. Meeting of the "Aurel Vlaicu" University,* Third Edition, Arad, 16-17 May 1996, Vol. 14A, 25 - 33;

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22. 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;

23. 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;

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36. Cristescu, G., Stoica, C., Approximation of the curvature of a function, *Analele Universităţii din Oradea*, Oradea, 2003, vol.II(XII): 28-36, (ISSN 1583-0691)

37. Cristescu, G., Duality and the Galois connection between two convexity spaces, *Buletinul Ştiinţific al Universităţii "Politehnica" din Timişoara*, Seria Matematică-Fizică, 48(62), 2, 2003, pag. 27-34.

38. Lupşa, 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)).

39. 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).

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52. 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.

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55. Cristescu, G., Găianu, M., Shape properties of Noor's convex sets, *Proceedings of the Twelfth Symposium of Mathematics and its Applications, Timişoara, November 5-7, 2009*, 91-100, 2009.

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59. Cristescu, G., Găianu, M., Detecting the non-Convex sets with Youness and Noor types convexities*, Buletinul Ştiinţific al Universităţii "Politehnica" din Timişoara*, Seria Matematică-Fizică, 55(69), 1, 20-27, 2010.

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61. Găianu, M., Cristescu, G., Restricted Oriented Slack Convexity and Extremal Elements with Respect to a Set, *Analele Universităţii de Vest, Timişoara, Seria Matematică – Informatică*, L, 1, (2012), 27– 37 (ISSN 1841-3293).

62. 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).

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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;

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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 Instituţional al Universităţii "Aurel Vlaicu" din Arad cu Uniunea Europeană nr. 85956 – IC – 2 – 2000 – 1- Ro – ERASMUS, "Pachetul informaţional ECTS al Universităţii "Aurel Vlaicu" din Arad", condus de prof. dr. Lizica Mihuţ, termen de desfăşurare 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 câştigat în anul 2011, termen de desfăşurare 2011-2013.   **Director from the part of Aurel Vlaicu University (according to O.M. 2849/19.XI.2008, equivalent to project director)**

Contracts within economic environment

4 protjects between 1992 - 2001

Project Director

Awards.

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

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Arad, 19 ianuarie 2021   Prof. univ. dr. Gabriela Cristescu