**List of publications**

**Ghiocel Moț, Professor Ph. D.**

1. **PhD Thesis**

*„Some implications of the general theory of convexity in geometry”* (in romanian)*,* *„*Babeş Bolyai*”* University of Cluj- Napoca, 1999, Scientific Coordinator: Elena Popoviciu, Professor Ph. D.

1. **Patents of invention**
2. **Books**
3. **Appeared in recognized CNCS publishing houses**
4. **G. Moţ,** A.Petruşel, *Superior mathematics for engineers and economists,* Mirton Publishing House, 1999, 276 pag., ISBN: 973-578-897-7 (in romanian).
5. **G. Moţ,** A.Petruşel, *Special mathematics for engineers and economists*, Mirton Publishing House, 1999, 277 pag., ISBN: 973-578-953-1 (in romanian).
6. **G. Moţ,** L. Popa, *Linear algebra. Collections of problems*, Mirton Publishing House, 1999, 80 pag., ISBN: 973-578-899-3 (in romanian).
7. **G. Moţ,** L. Popa, *Differential equations. Collections of problems,* Mirton Publishing House, 1999, 66 pag. ISBN: 973-578-900-2 (in romanian).
8. **G. Moţ,**  L. Gaga, L. Popa, L. Sida, T. Bulzan, *Exercises and problems of superior mathematics for technical and economic profiles,* Aradeana Life Publishing House, 2003, 630 pag., ISBN: 973-86288-2-2 (in romanian).
9. **G. Moţ,** *Types of Convexity in Modern Mathematics. Applications of Allure Theory,* Mirton Publishing House, 1999, 193 pag., ISBN: 973-578-898-5 (in romanian).
10. **G. Moţ,** *Convexity and Allure in Elena Popoviciu’s sense*, Miracle Printers Publishing House, Vancouver, Washigton, USA., 2000, 106 pag., ISBN: 973-578-447-6.
11. A. Petruşel, **G. Moţ,** *Multivalued analysis, convexity and mathematical economics,* House of the Book of Science Cluj-Napoca, 2003, 166 pag., ISBN: 973-578-900-3.
12. **G. Moţ,** A.Petrușel, G. Petrușel, *Topics in Nonlinear Analysis and Applications to Mathematical Economics*, House of the Book of Science Cluj-Napoca, 2006, 153 pag., ISBN: 973-686-952-0.
13. S. Szentesi, G. Cristescu, **G. Moţ,** M. Franţescu, M. Vizental, S. Crişan, D. Dănoiu, *Modeling the economic-ecological balance for investment projects*, „Aurel Vlaicu” University Publishing House, Arad, 2010, ISBN: 978-973-752-388-4 (in romanian).
14. **G. Moţ,** *Mathematics for engineers and economists*, “Aurel Vlaicu” University Publishing House, Arad, 2011, 100 pag., ISBN: 978-973-752-351-7 (in romanian).
15. **G. Moţ,** L. Popa*, Superior algebra for technical and economic profiles. Theory and applications-2nd Edition,* “Aurel Vlaicu” University Publishing House, Arad, 2013, 132 pag., ISBN: 978-973-752-506-3 (in romanian).
16. **G. Moţ,** L. Popa, *Linear algebra. Analytical and differential geometry,* “Aurel Vlaicu” University Publishing House, Arad, 2015, 160 pag., ISBN: 978-973-752-715-8 (in romanian).
17. **G. Moț,** C. L. Mihiț, *Algebra. Seminar and course support*, “Aurel Vlaicu” Univ. Publishing House Arad, 2019, 162 pag., ISBN: 978-973-752-809-4.
18. **Coordination of some collective volumes published in recognized CNCS publishing houses**
19. **Support of courses, seminars, laboratory works, projects in electronic versions**
20. **G. Moț,** C. L. Mihiț, *Seminar and course support at* *Linear algebra, analytical and differential geometry*, 2017 (in romanian).
21. **G. Moț,** C. L. Mihiț, *Seminar and course support at* *Mathematics I,*  2017 (in romanian).
22. **G. Moț,** C. L. Mihiț, *Seminar and course support at* *Applied mathematics in economy,*2018 (in romanian).
23. **G. Moț,** C. L. Mihiț, *Seminar and course support at* *Mathematical analysis,* 2018 (in romanian).
24. **G. Moț**, C. L. Mihiț, *Seminar and course support at* *Algebraic foundations of computer science*, 2018 (in romanian).
25. **G. Moț**, C. L. Mihiț, *Seminar and course support at* *Linear algebra, analytical and differential geometry*, 2018 (in romanian).
26. **G. Moț**, C. L. Mihiț, *Seminar and course support at Differential equations and partial differential equations*, 2019 (in romanian).
27. **Articles in extenso, published in journals from the main international scientific flow**
28. **Scientific articles published in ISI rated journals**
29. **G. Moț,** A. Petrușel, *Fixed point theory for a new type of contractive multivalued operators,* Nonlinear Analysis, Theory, Methods and Applications 70 (2009), no. 9, 3371-3377.
30. T. Lazăr, **G.** **Moţ,** G. Petruşel, S. Szentesi, *The Theory of Reich's Fixed Point Theorem for Multivalued Operators,* Fixed Point Theory and Applications, Volume 2010 (2010), Article ID 178421.
31. **ISI Proceedings**
32. A. Petrușel, **G.** **Moţ,** *Convexity and decomposability in multivalued analysis,* Proc. of the Generalized Convexity / Monotonicity Conference, Samos, Greece, 1999, Lecture Notes in Economics and Mathematical Sciences, Springer-Verlag, 2001, 333-341.
33. **Scientific articles published in BDI rated journals**
34. P. Enghis, **G.** **Moț,** *Remarks on spaces with semi-symmetric connections,* The XVIII-th National Conference on Geometry and Topology Oradea-Felix, October 4-7, 1987, Lit. Univ. “Babeş-Bolyai” Cluj-Napoca, 69-72.
35. **G.** **Moț,** *General convexity structures and multivalued mappings,* Conference on Analyis, Functional Equations, Approximation and Convexity, Held in Honour of Professor Elena Popoviciu on the Occasion of Her 75th Birtday, Cluj-Napoca, Carpatica Publishing House, 1999, 193-196.
36. **G.** **Moț,** *On the allure of conics and quadrics,* Proc. of the 8-th Symp. of Math. and its Applic. „Politehnica” Univ. of Timişoara, 1999, 242-248.
37. **G.** **Moț,** *On star-shaped sets in convex metric spaces*, Proc. of „T. Popoviciu” Itinerant Sem., „Babeș Bolyai” Univ. of Cluj-Napoca, Srima Publishing House, 2000, 141-146.
38. **G.** **Moț,** *The allure of the connection spaces,* Proc. of „T. Popoviciu” Itinerant Sem., „Babeș Bolyai” Univ. of Cluj-Napoca, Srima Publishing House, 2001, 143-148.
39. **G.** **Moț,** *Fractal type operators*, Sem. De la Meilleure Approx., Convexite et Optimization, Srima Publishing House, 2002, 111-124.
40. **G.** **Moț,** *Partion and allure,* Proc. of „T. Popoviciu” Itinerant Sem., Univ. „Babeș Bolyai” Cluj- Napoca, Ed. Srima, 2002, 193-196.
41. **G.** **Moț,** A. Petrușel, *Fixed points and game theory,* Intern. J. Pure Applied Math. 14 (2004), 521-530.
42. **G.** **Moț,** A. Petrușel, *Selection theorems for multivalued operators*, Annals of the Tiberiu Popoviciu Seminar on Functional Equations, Approximation and Convexity, 3 (2005), 151-156.
43. **G.** **Moț,** A. Petrușel, *Fractals operators for mixed iterated function system,* Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity, 4 (2006), 91-100.
44. **G. Moț*,*** A. Petrușel, *Local Fixed Point Theorems for Graphic Contractions in Generalized Metric Spaces*, Theory and Applications of Mathematics & Computer Science, 8(1), 2018, 1-5.
45. **G. Moţ**, A. Petruşel, *On Iseki' strict fixed point theorem*, Linear and Nonlinear Anal. 4 (2018), no. 1, 105–115.
46. **G. Moț,** C. L. Mihiț, *On Orthogonal Polynomials*, Theory and Applications of Mathematics & Computer Science, 8(2), (2018), 135-142.
47. **Publications in extenso, appeared in the volumes of international specialized conferences**
48. **G. Moț,** *Applications of the Convexity spaces,* Proceedings of the Scientific Communications Meeting of “Aurel Vlaicu” University, Third Edition Arad 16th-17th of May 1996 Vol. 14A., 51-56.
49. **G. Moț,** *Generalized convexity in metric spaces,* Lit. Univ. “Aurel Vlaicu” Arad 30-31 Octomber 1997, Vol. I, 83-92.
50. **G. Moț,** *On the allure of conics and quadrics*, Proc. of the 8-th Symp. of Math. and its Applic. „Politehnica” Univ. of Timişoara, 1999, 242-248.
51. **G. Moț,** L. Popa,*On quaternions*, Proceedings of the International Symposium “Research and Education in Innovation Era”, 5th Edition, Section Matematics and Computer Science, "Aurel Vlaicu" University of Arad Publishing House (2014), 70-77.
52. **G. Moț,** A. Petrușel, *On some multi-valued coincidence problems*,Proceedings of the International Symposium „Research and Education in Innovation Era”, 6th Edition, Section Mathematics & Computer Science, "Aurel Vlaicu" University of Arad Publishing House (2016), 1-6.
53. **G. Moț**, A. Petrușel, G. Petrușel, *Fixed Point Problems with Multi-Valued Operators and Applications*, Proceedings of the International Symposium „Research and Education in Innovation Era”, 7th Edition, Section Mathematics & Computer Science, "Aurel Vlaicu" University of Arad Publishing House (2018), 12-17.
54. **Other papers and scientific contributions**
55. **G. Moț,** *The representation of substances and chemical reactions between them with methods of linear algebra,* Works of the Scientific Session, May 1992, Vol.I. Mathematics-Computer Science, 58-65 (in romanian).
56. **G. Moț,** *The spin and semisimetric spaces,* “Aurel Vlaicu” University of Arad, Faculty of Engineering, Works of the Scientific Session, May 1992, Vol.I. Mathematics-Computer Science, 51-57 (in romanian).
57. P. Enghis, **G. Moț,** *T-birecurrent quarter-symmetrical connections*, The session of scientific communications of “Aurel Vlaicu” University of Arad, May 1994, Lit. Univ. “Aurel Vlaicu” Arad, 131-134 (in romanian).
58. **G. Moț,**  A. Petrușel, *A characterization of the ε-chainable generalized metric spaces*, Works of the Scientific Session, Arad, 1994, 135-138.
59. **G. Moț,** *Observations on semi-symmetrical E-connections*, The session of scientific communications of “Aurel Vlaicu” University of Arad, May 1994, Lit. Univ. “Aurel Vlaicu” Arad, 139-144 (in romanian).
60. **G. Moț,** *Convex curves,* Proceedings of the Scientific Communications Meeting of “Aurel Vlaicu” University of Arad, Third Edition, 16th-17th of May 1996, Vol. 14B. Lit. Univ. “Aurel Vlaicu” Arad, 57-60.
61. **G. Moț,** *Generalized convexity in metric spaces,* Octomber 30-31, 1997 Vol. I, Lit. Univ. “Aurel Vlaicu” Arad, 83-92.
62. **G. Moț,** Gh. Ila, *On graphical representations of curves and surfaces using the Matcad program,* Annals of “Aurel Vlaicu” University of Arad, Series Mathematics, Fasc. Mathematics-Computer Science, 2000, 125-132 (in romanian).
63. **G. Moț,** Gh. Ila, *On solving linear systems using the Matcad program,* Annals of “Aurel Vlaicu” University of Arad, Series Mathematics, Fasc. Mathematics-Computer Science, 2000, 133-138 (in romanian).
64. **G. Moț,** L. Popa, *Wiews upon liniar spaces of cuaternions*, Proceedings of the Scientific Communications Meeting of “Aurel Vlaicu” University, 28th-30th of May 2002, “Aurel Vlaicu” University of Arad Publishing House, 229-236.
65. **G. Moț,** L. Popa, *Applications of linear algebra in modeling of chemical substances and reactions*, Proceedings of the Scientific Communications Meeting of “Aurel Vlaicu” University, 28th-30th of May 2002, “Aurel Vlaicu” University of Arad Publishing House, 237-240 (in romanian).
66. L. Gaga, **G. Moț,** *Critical thinking and its role in mathematics*, International Symposium of ISJ Arad, CCD Arad “Color, Sound and Education” Arad, Vol I, 62-68, 2013, ISBN 978-606-8345-30-7 (in romanian).

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