



## LISTA LUCRĂRILOR ȘTIINȚIFICE

Lector Dr. Pișcoran Laurian-Ioan

### 1. Lista celor mai relevante 10 lucrări

- 1. *Pișcoran Laurian Ioan, Vishnu Narayan Mishra, "S-curvature for a new class of  $(\alpha, \beta)$ -metric"* Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales, Serie A. Matemáticas, (2017), Volume 111, Issue 4, pag. 1187-1200, DOI:10.1007/s13398-016-0358-3 (ISI)
- 2. *Misbah Liaqat, Pișcoran Laurian Ioan, Wan A. M. Othman, Akram Ali, Abdullah Gani, Cenap Ozel,"Estimation of inequalities for warped product semi-slant submanifolds of Kenmotsu space forms", Journal of Inequalities and Applications, (2016), 2016:239;DOI: 10.1186/s13660-016-1177-y (ISI)*
- 3. *Mircea Crasmareanu, Pișcoran Laurian Ioan, "Invariant distributions and holomorphic vector fields in paracontact geometry", Turkish Journal of Math., (2015), Vol. 39,pag: 467- 476, DOI:10.3906/mat-1412-24 (ISI)*
- 4. *Mircea Crasmareanu, Pișcoran Laurian Ioan, -"CR structures of codimension 2 on tangent bundles in Riemann-Finsler geometry", Periodica Mathematica Hungarica, (2016),Volume 73, Issue 2, pp 240–250, DOI:10.1007/s10998-016-0141-4 (ISI)*
- 5. *Mircea Crasmareanu, Pișcoran Laurian Ioan, -"Para-CR structures of codimension 2 on tangent bundles in Riemann-Finsler geometry", Acta Math. Sin. (Engl. Ser.), 30, (2014),No. 11, Pag. 1877-1884, DOI:10.1007/s10114-014-3559-8. (ISI)*
- 6. *Cătălin Barbu, Pișcoran Laurian Ioan- „Jordan type inequalities using monotony of functions” – Journal of Mathematical Inequalities, (7 pag.), Volume 8, Number 1 (2014), pag. 83-89, DOI: dx.doi.org/10.7153/jmi-08-04. (ISI)*
- 7. *Akram Ali, Pișcoran Laurian Ioan, „Geometry of warped product immersions of Kenmotsu space forms and its applications to slant immersions”, Journal of Geometry and Physics,(2017), http://dx.doi.org/10.1016/j.geomphys.2016.12.001; Volume 114, Pages 276–290. (ISI)*
- 8. *W. Boskoff, Mircea Crasmareanu, Pișcoran Laurian Ioan, "Tzitzeica equations and Tzitzeica surfaces in separable coordinate systems and the Ricci flow tensor field", Carpathian Journal of Mathematics, Nr. 33, Vol.2, pages 141-151, (2017). (ISI)*



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- 9. Pişcoran Laurian Ioan, Vishnu Narayan Mishra, "Variational problem for a new class of  $(\alpha, \beta)$ -metric", FILOMAT, 32:2 (2018), pag.643–652,  
<https://doi.org/10.2298/FIL1802643P>. (ISI)
- 10. Miclăuș Dan, Pişcoran Laurian Ioan- „A new method for the approximation of integrals using generalized Bernstein quadrature formula” – Applied Mathematics and Computation Vol.340, pag.146-155; (2019) , DOI: <https://doi.org/10.1016/j.amc.2018.08.008>. (ISI)

## 2. Teza de doctorat

*Titlu: „Cercetări de geometrie Finsler și geometrie diferențială necomutativă cu aplicații”,  
Universitatea Babeș-Bolyai, Cluj Napoca,  
Coordonator Științific: Prof. Univ. Dr. Gheorghe Atanasiu,  
Anul susținerii: 2005*

## 3. Cărți și capitole în cărți

1. Dan Bărbosu, Pişcoran Laurian Ioan, *Matematici Superioare, Culegere de probleme*, - , Edit. Risoprint, Cluj-Napoca 2001, ISBN 973- 656-140-2, Nr. pagini 147.
2. Dan Bărbosu, Andrei Horvat, Pişcoran Laurian Ioan și colectivul catedrei de matematică, *Matematica de bază*, - Edit. Univ. de Nord, Baia Mare 2006, ISBN 973-8133-80-7, Nr. pagini 320.
3. Pişcoran Laurian Ioan, *Elemente de teorie a curbelor și suprafețelor*, Edit. Risoprint, Cluj Napoca, 2007, ISBN 978-973-751-427-1, cod CNCSIS 178, Nr. pagini 184.
4. Pişcoran Laurian Ioan, Pişcoran Ioan, *Lecții de geometrie analitică și diferențială*, Ed.Risoprint, Cluj Napoca 2010, ISBN 978-973-53-0125-5, cod CNCSIS 178, Nr. pagini 214.
5. Pişcoran Laurian Ioan, *Culegere de probleme de geometrie sintetică, vectorială și analitică*, Ed.Risoprint, Cluj Napoca 2013, ISBN 978-973-53-1016-5, cod CNCSIS 178, Nr. pagini 122.
6. Pişcoran Laurian Ioan , *Elemente de geometrie computatională*, Edit. Risoprint, Cluj Napoca, 2008, Ed.Risoprint, Cluj Napoca 2013, ISBN 978-973-751-853-8, cod CNCSIS 178, Nr. pagini 160.
7. Pişcoran Laurian Ioan, *Geometrie Finsler și geometrie diferențială necomutativă cu aplicații*, Editura Presa Universitară Clujeană, ISBN 973-610-447-8, cod CNCSIS 109, Nr. pag. 201
8. Pişcoran Laurian Ioan, *Complemente de geometrie*, Edit. Risoprint, Cluj Napoca, 2015, Ed.Risoprint, Cluj Napoca 2013, ISBN 978-973-53-1479-8, cod CNCSIS 178, Nr. pagini 107.



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9. Dumitru Bușneag, Ion Cheșcă, Pișcoran Laurian Ioan și colectivul, *Admiterea 2002-2003 și bacalaureat*, Edit. Gil Zalău, 2002, ISBN: 973-9238-96-3.
10. Dumitru Bușneag, Ion Cheșcă, Pișcoran Laurian Ioan și colectivul, *Admiterea 2003-2004 și bacalaureat*, Edit. Gil Zalău, 2002, ISBN: 973-9417-23-X.

### Cărți sau capitole de cărți în edituri internaționale

11. J.H. Caltenco, J. Lopez-Bonilla, Pișcoran Laurian, *Theoretical and Computational Research in the 21st Century*, Editor Nazmul Islam, Capitolul: *Classical charged particle in arbitrary motion*, pag.119-147, (2015), Editura CRC Press (Taylor and Francis group), ISBN 978-1-771-88033-6,  
<http://www.crcpress.com/product/isbn/9781771880336>

### D. articole/studii în extenso, publicate în reviste din fluxul științific internațional principal

#### Articole publicate în reviste indexate ISI (Web of Knowledge)

1. Pișcoran Laurian Ioan, Cătălin Barbu, „*Remarks on a new metric in the unity disc of the complex plane*” – Carpathian Journal of Mathematics, (6 pag.), Issue 30, (2014), No. 2, pag.239 – 244, WOS: 000343187600012. (ISI)
2. Cătălin Barbu, Pișcoran Laurian Ioan – „*Some hyperbolic concurrency results in the Poincare disc*” – Carpathian Journal of Mathematics, Vol. 28, No.1 (2012), pag. 9 – 15, (7 pag.), WOS:000301890000002. (ISI)
3. Cătălin Barbu, Pișcoran Laurian Ioan- „*Andrica-Iwata's Inequality in hyperbolic triangle*” – Mathematical Inequalities & Applications, Volume 12, Number 3 (2012), 631–637. Zbl pre06074811, (7 pag.), DOI: 10.7153/mia-15-55. (ISI)
4. Deepmala, Pișcoran Laurian Ioan „*Approximation of signals (functions) belonging to certain Lipschitz classes by almost Riesz means of its Fourier series*”, Journal of Inequalities and Applications (2016), 2016:163, (10 pag.) DOI: 10.1186/s13660-016-1101-5. (ISI)
5. Cătălin Barbu, Pișcoran Laurian Ioan- „*Jordan type inequalities using monotony of functions*” – Journal of Mathematical Inequalities, (7 pag.), Volume 8, Number 1 (2014), pag. 83–89, DOI: dx.doi.org/10.7153/jmi-08-04. (ISI)
6. Mircea Crasmareanu, Pișcoran Laurian Ioan, “*Ricci solitons on CR submanifolds of maximal CR dimension in complex projective space*”, Carpathian Journal of Mathematics, 32 (2016), No. 2, pag. 173-177. (ISI)
7. Mircea Crasmareanu, Pișcoran Laurian Ioan, -“*Weak Para-CR Structures on Vertical Bundles*” Adv. Appl. Clifford Algebras, Vol. No. / (2016), (10 pag.), Volume 26, Issue 4, pag. 1127-1136, DOI 10.1007/s00006-016-0652-3. (ISI)



8. Mircea Crasmareanu, Pişcoran Laurian Ioan, -" *Para-CR structures of codimension 2 on tangent bundles in Riemann-Finsler geometry*", Acta Math. Sin. (Engl. Ser.), 30, (2014), No. 11, Pag. 1877-1884., DOI:10.1007/s10114-014-3559-8. **(ISI)**
9. Mircea Crasmareanu, Pişcoran Laurian Ioan, -" *CR structures of codimension 2 on tangent bundles in Riemann-Finsler geometry*", Periodica Mathematica Hungarica, (2016), Volume 73, Issue 2, pp 240-250, DOI:10.1007/s10998-016-0141-4. **(ISI)**
10. Mircea Crasmareanu, Pişcoran Laurian Ioan, -" *Invariant distributions and holomorphic vector fields in paracontact geometry*", Turkish Journal of Math., (2015), Vol. 39,pag: 467-476, DOI:10.3906/mat-1412-24. **(ISI)**
11. Pişcoran Laurian Ioan, Vishnu Narayan Mishra, " *Projectively flatness of a new type of  $(\alpha, \beta)$ -metric*", Georgian Mathematical Journal, Vol. 26, Issue 1, pag.133-139, DOI: <https://doi.org/10.1515/gmj-2017-0034>. **(ISI)**
12. Misbah Liaqat, Pişcoran Laurian Ioan, Wan A. M. Othman, Akram Ali, Abdullah Gani, Cenap Ozel,"Estimation of inequalities for warped product semi-slant submanifolds of Kenmotsu space forms" Journal of Inequalities and Applications, (2016), 2016:239; DOI: 10.1186/s13660-016-1177-y. **(ISI)**
13. Pişcoran Laurian Ioan, Vishnu Narayan Mishra, " *S-curvature for a new class of  $(\alpha, \beta)$ -metric*" Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales, Serie A. Matemáticas, (2017), Volume 111, Issue 4, pag. 1187-1200, DOI:10.1007/s13398-016-0358-3. **(ISI)**
14. Akram Ali, Pişcoran Laurian Ioan, „ *Geometry of warped product immersions of Kenmotsu space forms and its applications to slant immersions*”, Journal of Geometry and Physics, (2017), <http://dx.doi.org/10.1016/j.geomphys.2016.12.001>; Volume 114, Pag. 276-290. **(ISI)**
15. W. Boskoff, Mircea Crasmareanu, Pişcoran Laurian Ioan, " *Tzitzéica equations and Tzitzéica surfaces in separable coordinate systems and the Ricci flow tensor field*", Carpathian Journal of Mathematics, Nr. 33, Vol.2, pages 141-151, (2017). **(ISI)**
16. Pişcoran Laurian Ioan, Vishnu Narayan Mishra, " *Variational problem for a new class of  $(\alpha, \beta)$ -metric*", FILOMAT, 32:2 (2018), pag.643-652, <https://doi.org/10.2298/FIL1802643P>. **(ISI)**
17. Mircea Crasmareanu, Pişcoran Laurian Ioan, " *Wick-Tzitzéica solitons and their Monge-Ampère equation*", International Journal of Geometric Methods in Modern Physics, Vol.15, No.5, 1850082, (2018),<https://doi.org/10.1142/S0219887818500822>, **(ISI)**



18. Mircea Crasmareanu, Pişcoran Laurian Ioan, Almost Analytic Kähler Forms with Respect to a Quadratic Endomorphism with Applications in Riemann-Finsler Geometry, *Adv. Appl. Clifford Algebras* (2018) 28: 36.  
[https://doi.org/10.1007/s00006-018-0853-z.](https://doi.org/10.1007/s00006-018-0853-z) **(ISI)**
19. Akram Ali, Pişcoran Laurian Ioan, *Geometric classification of warped products isometrically immersed into Sasakian space forms*, *Mathematische Nachrichten* vol. 292, no.2, pag. 234-251, DOI: 10.1002/mana.201700121. **(ISI)**
20. Miclăuş Dan, Pişcoran Laurian Ioan- „A new method for the approximation of integrals using generalized Bernstein quadrature formula” – *Applied Mathematics and Computation* Vol.340, pag.146-155; (2019) , DOI:  
[https://doi.org/10.1016/j.amc.2018.08.008.](https://doi.org/10.1016/j.amc.2018.08.008) **(ISI)**

#### Lucrări indexate BDI și B+

21. Pişcoran Laurian Ioan, *From Noncommutative geometry to Finsler Geometry- General Mathematics*, Volumul 12, Nr.4, pag. 29-38, (2004).
22. Pişcoran Laurian Ioan, *Some noncommutative differential forms*, *Bul. Stiinţific al Univ. de Nord Baia Mare*, vol. XVII (2001), pag. 101-106.
23. Pişcoran Laurian Ioan, *Dirac Equation and the noncommutative harmonic oscilator –* (*Studia Mathematica* , Vol. LIII ,pag.79-83, (2008).
24. Pişcoran Laurian Ioan, *The Noncommutative Dirac equation for some wave functions-* *Acta Universitatis Apulensis*, Nr. 13, pag.71-74, (2007).
25. Pişcoran Laurian Ioan,- *Noncommutative differential direct Lie derivative and the algebra of special Euclidean group SE(2)*, *Creative Math. & Inf.* 17, No. 3, 493 – 498, (2008)
26. Pişcoran Laurian Ioan, Barbu C., *Pappus's Harmonic Theorem in the Einstein Relativistic Velocity Model of Hyperbolic Geometry* *Studia Mathematica*, Cluj Napoca, vol. LVI, Nr.1, pag.101-107, (2011).
27. Pişcoran Laurian Ioan, *Some remarks on noncommutative Dirac equation*, *Acta Universitatis Apulensis*, Nr. 27, pag.57-60, (2011).
28. Pişcoran Laurian Ioan, Barbu C., *Inequalities with gudermannians in hyperbolic triangle*, *Global Journal of Advanced Research on Classical and Modern Geometries*, pag.11-14, Vol.1, Issue 1, (2012).
29. Pişcoran Laurian Ioan, Barbu C. and Lauran M., *K-Bezier type curves generated by a King type operator*, *Global Journal of Advanced Research on Classical and Modern Geometries*, Vol.2, Issue1, pag.50-54, (2013).
30. Braica P., Pişcoran Laurian Ioan, Indre A., *Graphical lectures of some King type operators*, *Acta Universitatis Apulensis*, No. 34, pag. 163-171, (2013).



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31. Galeana A.H., Vasquez L., Bonilla J.L., Pişcoran Laurian Ioan, *On the Ciorănescu (Haslam-Jones) Lanczos generalized derivative*, Global Journal of Advanced Research on Classical and Modern Geometries, pag.44-49, Vol.3, Issue 1, (2014).
32. Pişcoran Laurian Ioan, J.L. Bonilla, G. P. Teruel, *Rotating black hole and a potential for its Weyl tensor*, Global Jour. of Advanced Research on Classical and Modern Geometries, Vol.4, (2015), Issue1, pag.62-64
33. Pişcoran Laurian Ioan, Barbu C., *A new hyperbolic metric* , Differential Geometry-Dynamical system, (DGDS), Vol.15, pag.71-78, (2013).
34. Barbu C., Pişcoran Laurian Ioan, - *The hyperbolic Zajic theorem in the Poincare disc model of hyperbolic geometry*, International Mathematical Forum, 5, no. 66, 3251 – 3254, (2010).
35. Barbu C., Pişcoran Laurian Ioan, - *The hyperbolic Nobbs theorem in the Poincare disc model of hyperbolic Geometry*, International Mathematical Forum, 5, no. 66, 3255 – 3258, (2010).
36. Pişcoran Laurian Ioan, Barbu C., *New inequalities on hyperbolic triangles*, International Journal of Pure and Applied Sciences and Technology, vol. 1(1), pag. 7-10, (2010).
37. Barbu C., Pişcoran Laurian Ioan, *Gulicher theorem in the Poincare disc model of Hyperbolic Geometry*, Mathematica Aeterna , Nr.1, vol.5-6, pag.305-311, (2011).
38. Pişcoran Laurian Ioan, Şchiopu Ionuț, *Interpolation parabolas and quadratic Bezier curves*, Global Jour. of Advanced Research on Classical and Modern Geometries, Vol.5, Issue2, pag.98-103, (2016).
39. H. Torres-Silva, J. López-Bonilla, Pişcoran Laurian Ioan, *Integration by Differentiation*, Journal of Ramanujan Journal of Mathematics and Mathematical Sciences, Vol. 5, No. 1, pag. 91-94, (2016).
40. Pişcoran Laurian Ioan, J. López-Bonilla, R. López-Vazquez, *Spinorial and quaternionic forms of Maxwell equations in vacuo*, The SciTech Journal of Science and Technology, Vol. 2, Issue 2, (2013), pag. 36-39.
41. Pişcoran Laurian Ioan, Lakshmi Narayan Mishra, *Projective change for a new class of  $(\alpha, \beta)$ -metrics*, Mathematica Aeterna, Vol. 6, (2016), no. 6, pag. 885 – 894.
42. Shyamal Kumar Hui, Pişcoran Laurian Ioan, Tanumoy Pal, *Invariant submanifold of  $(LCS)_n$  manifolds with respect to quarter symmetric metric connection*, Acta Universitatis Comaniae, Vol. LXXXVII, 2 (2018), pp. 205–221,  
<http://www.iam.fmph.uniba.sk/amuc/ojs/index.php/amuc/article/view/668>
43. Shyamal Kumar Hui, Pişcoran Laurian Ioan, Tanumoy Pal, *On a gradient Ricci soliton in the plane*, Differential geometry –Dynamical Systems, (DGDS), vol.20, (2018), pag. 98-105.



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44. J. H. Caltenco, J. López-Bonilla, Pişcoran Laurian Ioan, *Motion of charged particles in Minkowski spacetime*, WorldScientificNews Journal, (WSN), vol. 108, (2018), pag. 18-40,<http://www.worldscientificnews.com/wp-content/uploads/2018/08/WSN-108-2018-18-40.pdf>
45. Pişcoran Laurian Ioan, Barbu Cătălin, *From Bezier curves and T-Bezier curves to superquadrics*, International Journal of Geometry, Vol. 7, Nr. 2, pag. 72-86, (2018).  
<https://ijgeometry.com/wp-content/uploads/2018/10/72-86.pdf>
46. Pişcoran Laurian, Miclăuș Dan, *A new Steffensen-Hommeier method for solving nonlinear equation*, Revista Investigația Operacională, vol. 40, Nr.1, 74-80, (2019).

### Selectie cu maximum 20 lucrări în volume de conferințe

47. Pişcoran Laurian Ioan- *From Zeta function to Noncommutative Geometry*- Pannonian Math. BAM 1922 , pag.319-326, (2001).
48. Pişcoran Laurian Ioan,- *Dirac operator and generators*- "Recent advances in geometry and topology", Workshop on differential geometry and topology, Cluj Napoca, pag. 301-306, (2003).
49. Pişcoran Laurian Ioan,- *Dirac operator and the one dimensional diffraction network*, Proceedings of the International Conference on Theory and Applications of Mathematics and Computer Science, ICTAMI , Alba-Iulia, pag.191-198, (2003).
50. Pişcoran Laurian Ioan, Barbu C., *Some applications of Suranyi inequality in hyperbolic triangle*, Simpozionul Național de Geometrie "Gheorghe Titeica"-Bacău, pag. 66-69, (2012), ISBN: 978-606-8246-19-2
51. Pişcoran Laurian Ioan, *Suprafețe s-Bezier biliniare*, Simpozionul Național de Geometrie "Gheorghe Titeica"-Bacău (2011) / pag. 37-44, ISBN: 978-606-8246-19-2
52. Pişcoran Laurian Ioan, Barbu C., *Koch curves generated by QT-Bezier type of curves*, Simpozionul Național de Geometrie "Gheorghe Titeica"-Bacău (2013)/ pag. 1-6, ISBN: 978-606-8246-19-2

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Semnătura

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