

# Grup de cercetare GEOMETRIE

lider grup: Nicoleta VOICU

## A. Direcții de cercetare:

### 1. Geometrie Finsler și extinderi:

- Geometrie Lorentz-Finsler.
- Geometrie Finsler complexă.
- Geometrie Lagrange-Hamilton, extensii pe spații de jeturi.

### 2. Geometrie complexă și de contact; structuri metalice pe varietăți:

- Studiul varietăților și subvarietăților lor în geometria complexă, geometria de contact, geometria de contact complexă.
- Structuri metalice pe varietăți.

### 3. Varietăți statistice pseudo-riemanniene.

### 4. Aplicații ale geometriei în fizica matematică:

- Calcul variațional pe varietăți.
- Aplicații ale structurilor pseudo-riemanniene și pseudo-Finsler în teorii ale gravitației.

### 5. Didactica matematicii.

## B. Membrii grupului:

1. Conf. dr. Nicoleta ALDEA
2. Asist. dr. Annamaria FRIEDL
3. Lect. dr. Adelina MANEA
4. Conf. dr. Adela MIHAI
5. Prof. dr. Gheorghe MUNTEANU
6. Conf. dr. Mircea NEAGU
7. Lect. dr. Alexandru OANĂ
8. Asist. dr. Elena POPOVICI-POPESCU
9. Conf. dr. Monica PURCARU
10. Conf. dr. Nicoleta VOICU

### **Principali colaboratori externi:**

1. Dr. Manuel HOHMANN, University of Tartu, Estonia, <http://kodu.ut.ee/~manuel/>
2. Dr. Christian PFEIFER, Bremen Univ., Germania, <https://scholar.google.com/citations?user=MgQwkpsAAAAJ&hl=de>
3. Prof. dr. Sorin V. SABĂU, Tokai Univ., Japonia, <https://sites.google.com/view/sorin-v-sabau/publications>

## **C. Obiectivul general al grupului:**

### **(Re-)crearea și dezvoltarea la Brașov a unei școli puternice de geometrie.**

Concret, ne dorim să realizăm următoarele:

1. Creșterea coeziunii grupului, o mai bună cunoaștere reciprocă a colegilor și a preocupărilor lor în domeniul geometriei, realizarea de lucrări comune valoroase.
2. Atragerea de colaboratori din afara universității, realizarea de lucrări comune cu aceștia.
3. Creșterea vizibilității școlii brașovene de geometrie.
4. Orientarea spre teme de actualitate și de interes, cu aplicații în alte domenii.
5. Atragerea de doctoranzi, atât din rândul studenților facultății noastre, cât și din afara ei.

Ca indicatori ai performanței grupului, ne propunem:

1. Minim două articole în reviste ISI cu factor de impact pe an.
2. Minim două prezentări pe an, susținute de invitați din afara universității.

În urma discuțiilor cu membrii grupului, am concluzionat că metoda cea mai potrivită de realizare a obiectivelor propuse este organizarea unui **mini-workshop lunar**. Întâlnirile vor avea loc în a treia miercuri a fiecărei luni, la ora 18.00, pe platforma [bbb.unitbv.ro](http://bbb.unitbv.ro). La fiecare întâlnire, fie un membru al grupului, fie un invitat din exterior, va prezenta o temă care ar putea fi de interes pentru colegi. Sperăm ca aceste întâlniri să dea un suflu nou cercetării în domeniul geometriei la facultatea noastră.

## Lista lucrărilor din ultimii 10 ani ale membrilor grupului

### Conf. dr. Nicoleta ALDEA:

#### I. Lucrări indexate ISI publicate în ultimii 10 ani

1. **N. Aldea**, P. Kopacz, *Generalized loxodromes with application to time-optimal navigation in arbitrary wind*, J. Franklin I., 358(2021), 776-799. doi: [10.1016/j.jfranklin.2020.11.009](https://doi.org/10.1016/j.jfranklin.2020.11.009) (ISI)
2. **N. Aldea**, P. Kopacz, *On generalized single-heading navigation*, J. Navigation 74(1), 60-78 2021. doi:10.1017/S0373463320000351 (ISI)
3. **N. Aldea**, P. Kopacz, *Time-Extremal Navigation in Arbitrary Winds on Conformally Flat Riemannian Manifolds*, J. Optimiz. Theory App., 189, 19–45, 2021. doi: 10.1007/s10957-021-01818-x (ISI)
4. **N. Aldea**, *Zermelo deformation of Hermitian metrics by holomorphic vector fields*, Results Math., 75(4), 2020. doi: 10.1007/s00025-020-01270-9 (ISI)
5. **N. Aldea**, P. Kopacz, *Time-optimal navigation in arbitrary winds*, Annu. Rev. Control, 49, 164–172, 2020. doi: 10.1016/j.arcontrol.2020.04.002 (ISI)
6. **N. Aldea**, G. Munteanu, *On the class of complex Douglas-Kropina spaces*, Bul. Korean Math. Soc., 55(1), 2018, 251-266 doi: 10.4134/BKMS.b161000. (ISI)
7. **N. Aldea**, P. Kopacz, *Generalized Zermelo navigation on Hermitian manifolds with a critical wind*, Results in Math., 72(4), 2017, 2165–2180. doi: 10.1007/s00025-017-0757-6. (ISI)
8. **N. Aldea**, P. Kopacz, *Generalized Zermelo navigation on Hermitian manifolds under mild wind*, Diff. Geom. Appl., 54, A(2017), 325-343. doi: [10.1016/j.difgeo.2017.05.007](https://doi.org/10.1016/j.difgeo.2017.05.007). (ISI)
9. **N. Aldea**, G. Munteanu, *Recent results on complex Cartan spaces*, J. Geom. Phys., 106 (2016), 155-170. doi: 10.1016/j.geomphys.2016.03.024. (ISI)
10. **N. Aldea**, G. Câmpean, *Geodesic curves on  $R$  - complex Finsler spaces*, Results in Mathematics, 70(1-2), 2016, 15-29. doi: 10.1007/s00025-015-0460-4 (ISI)
11. **N. Aldea**, G. Munteanu, *A generalized Schrödinger equation via a complex Lagrangian of electrodynamics*, J. Nonlinear Math. Phys., 22, 3(2015), 361-373. doi: 10.1080/14029251.2015.1056619. (ISI)
12. **N. Aldea**, G. Câmpean, *On some classes of  $R$ -complex Hermitian Finsler spaces*, J. Korean Math. Soc., 52, 3(2015), 587-601. doi: 10.4134/JKMS.2015.52.3.587. (ISI)
13. **N. Aldea**, G. Munteanu, *Geometry of product complex Cartan manifolds*, Ann. Șt. Univ. Ovidius Constanța-Seria Matem., 23, 1(2015), 25-36. doi: 0.1515/auom-2015-0002. (ISI)
14. **N. Aldea**, G. Munteanu, *The main invariants of a complex Finsler space*, Acta Mathematica Scientia, 34, 4 (2014), 995 - 1011. doi: 10.1016/S0252-9602(14)60064-3. (ISI)
15. **N. Aldea**, G. Munteanu, *New candidates for a Hermitian approach of Gravity*, Int. J. Geom. Meth. Mod. Phys. 10, 9 (2013), 1350041 (22 pages). doi: 10.1142/S0219887813500412. (ISI)
16. **N. Aldea**, G. Munteanu, *On complex Douglas spaces*, J. Geom. Phys., 66 (2013), 80-93. doi: 10.1016/j.geomphys.2012.11.011. (ISI)
17. **N. Aldea**, G. Munteanu, *On projective invariants of the complex Finsler spaces*, Diff. Geom. and its Appl., 30, 6(2012), 562-575. doi: 10.1016/j.difgeo.2012.07.010 (ISI)
18. G. Munteanu, **N. Aldea**, *A complex Finsler approach of Gravity*, Int. J. Geom. Meth. Mod. Phys. 9, 7 (2012), 1250058 (16 pages). doi: 10.1142/S0219887812500582. (ISI)

19. **N. Aldea**, G. Munteanu, *Projectively related complex Finsler metrics*, Nonlinear Analysis: Real World Appl., 13, 5 (2012), 2178-2187. doi: 10.1016/j.nonrwa.2012.01.013. (ISI)
20. **N. Aldea**, *About a special class of two - dimensional complex Finsler spaces*, Indian J. Pure Appl. Math., 43(2), 2012, 107-127. doi: 10.1007/s13226-012-0007-2. (ISI)
21. **N. Aldea**, G. Munteanu, *On complex Landsberg and Berwald spaces*, J. Geom. Phys., 62, 2 (2012), 368-380. doi: 10.1016/j.geomphys.2011.10.010. (ISI)
22. **N. Aldea**, *Some results on complex Douglas spaces*, Proc. Int. Conf. Diff. Geom. Dynam. Sys. (DGDS-2011), BSG Proc., 19, Geom. Balkan Press, Bucharest, 1-10, 2012. Zbl 1257.53036 MR2977010 (ISI Proc.)

## II. **Lucrări indexate BDI publicate în ultimii 10 ani**

1. **N. Aldea**, G. Munteanu, *A survey of two - dimensional complex Finsler spaces*, Bull. Transilv. Univ. Brasov, Ser. III 5(54), 1 (2012), 1-22. MR3035880 (BDI)
2. **N. Aldea**, G. Munteanu, *On projective complex Randers changes*, Bull. Transilv. Univ. Brasov, Ser. III 5(54), (2012), Special Issue: *Proc. Seventh Congress Romanian Mathematicians*, 1-10, publ. by Transilvania Univ. Press, Brasov and Publ. House Romanian Acad. (BDI)
3. **N. Aldea**, G. Munteanu, *Some classes of complex Cartan spaces*, Dedicated to Prof. R. Miron on the occasion of his 85th birthday, Revue Roumaine Math. Pures Appl., 57 (2012), 1, 5-15. Zbl 06254357 MR3051975 (BDI)
4. **N. Aldea**, G. Munteanu, *Einstein equations in a weakly gravitational complex Finsler space*, Bull. Transilv. Univ. Brasov, Ser. III 5(54), 2 (2012). (BDI)

## 2. Asist. dr. Annamaria FRIEDL (SZÁSZ)

### Lucrări indexate ISI/BDI

1. **Szász A.**, *Generalized quaternionic structures on the total space of a complex Finsler space*, Bull. Transilv. Univ. Braşov Ser. III, 5(54)(1):85–96, 2012.
2. **Szász A.**, *Generalized Complex Lagrange Spaces With Beil Metric*, Bull. of the Transilvania Univ. Braşov Ser. III, 56 nr.2, 2014, 135–144.
3. **Szász A.**, *Einstein equations of G-natural complex Finsler metrics*, Acta Mathematica Academiae Paedagogicae Nyíregyháziensis Vol. 31, No. 1, 2015.
4. **Szász A.**, *Beil metrics in complex Finsler geometry*, Balkan J. Geom. Appl. 20 No. 2 ,2015, 72–83.
5. Szász-Friedl A., *Deformation of complex Finsler metrics*, An. Şt. Univ. Ovidius Constanţa, Vol. 26(3), 2018, 229-244, 2017.

### 3. Lect. dr. Adelina MANEA

#### Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. **Adelina Manea**, *Cohomology of foliated Finsler manifolds*, Bulletin of Transilvania University of Brasov Vol 4(53) - 2011, nr. 2, p.23-30.
2. **Adelina Manea**, *A de Rham theorem with respect to the Liouville foliation on  $TM^0$ , for a Finsler manifold  $M$* , Differential Geometry - Dynamical Systems, Vol.13, 2011, pp. 169-178.
3. **Adelina Manea**, Cristian Ida, *A V-Cohomology With Respect To Complex Liouville Distribution*, Revista International Electronic Journal of Geometry Vol 5, No. 1, (2012), pag. 151-162
4. **Adelina Manea**, First and second cohomology group of a bundle, An. Stiit. Univ. Ovidius Constanta, Vol. 20(2), 2012, p. 71-78
5. **Adelina Manea**, Cristian Ida, *Adapted basic connections to a certain subfoliation on the tangent manifold of a Finsler space*, Turk J Math (2014) 38: 470 – 482.
6. Cristian Ida and **Adelina Manea**, *A vertical Liouville subfoliation on the cotangent bundle of a Cartan space and some related structures*, Int. J. Geom. Methods Mod. Phys. 11, 1450063 (2014) [21 pages] doi: 10.1142/S0219887814500637
7. **Adelina Manea**, *First order jets of bundles over a manifold endowed with a subfoliation* Bull. Transilvania Univ. Vol 8(57), No. 1 – 2015, 43-56
8. Cristian Ida, **Adelina Manea**, *On para-Norden metric connections*, Balkan Journal of Geometry and Its Applications, Vol.21, No.2, 2016, pp. 45-54.
9. **Adelina Manea**, Nicușor Minculete, *Types of integer harmonic numbers (I)*, Bulletin of the Transilvania University of Brașov • Vol 8(57), No. 2 – 2015 Series III: Mathematics, Informatics, Physics, 79-88.
10. **Adelina Manea**, Nicușor Minculete, *Types of integer harmonic numbers (II)*, Bulletin of the Transilvania University of Brașov • Vol 9(58), No. 1 – 2016 Series III: Mathematics, Informatics, Physics, 67-82.
11. **Adelina Manea**, Cristian Ida, *Adapted Basic Connections On the Big-Tangent Manifold*, Appl. Math. Inf. Sci. 10, No. 6, 2035-2043 (2016).
12. Cristian Ida **Adelina Manea**, *On the Integrability of Generalized Almost para-Norden and para-Hermitian Structures*, Mediterr. J. Math. (2017) 14: 173.
13. **Adelina Manea**, *Polynomial of second degree structures on big tangent bundle*, Bull of the Transilvania University of Brașov Vol 11(60), No. 1 – 2018 Series III: Mathematics, Informatics, Physics, 85-98.

14. Monica Ana Paraschiva, **Adelina Manea**, *On the profil of the olympic students in mathematics*, Journal Plus Education, ISSN: 1842-077X, E-ISSN (on line) 2068-1151 Vol XXI (2018), Special Issue. pp. 321-326.
15. **Adelina Manea**, Cristian Ida, *Gauge theory on contact metric manifolds*, Balkan Journal of Geometry and Its Applications, 24(2019), 26-44.
16. **Adelina Manea**, *Some remarks on metallic Riemannian structures*, Ann. Stiint., Univ. Al. I. Cuza Iași. Mat. (N.S.), 65(2019), 37-46.
17. **Adelina Manea**, *About the training methods for olympic students in mathematics*, Rev.AFA 42(2020), 49-56.

## 4. Conf. dr. Adela MIHAI

A. Teza de abilitare: *Topics in the Geometry of Structured Riemannian Manifolds and Submanifolds*, Institutul de Matematica, Universitatea Debrecen, Ungaria, 2019

### B. Cărți și capitole în cărți publicate în ultimii 10 ani

[1] *CR-Submanifolds in Complex and Sasakian Space Forms* (cu I. Mihai), in *Geometry of Cauchy-Riemann Submanifolds* (Eds. Sorin Dragomir et al.), Springer, 2016.

[2] *Some Basic Inequalities on Slant Submanifolds in Space Forms* (cu I. Mihai) in *Differential Geometry of Slant Submanifolds* (Eds. B.-Y. Chen et al.), Springer, 2021, va apărea.

### C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

[1] *Chen inequalities for submanifolds of complex space forms and Sasakian space forms endowed with semi-symmetric metric connections* (cu C. Ozgur), Rocky Mountain J. Math. 41 (5) (2011), 1653-1673.

[2] *Symmetry in complex contact geometry* (cu D. E. Blair), Rocky Mountain J. Math. 42(2) (2012), 451-465.

[3] *Homogeneity and local symmetry of complex  $(k, \mu)$ -spaces* (cu D. E. Blair), Israel J. Math. 187 (2012), 451-464.

[4] *An improved Chen-Ricci inequality for Kaehlerian slant submanifolds in complex space forms* (cu I. N. Radulescu), Taiwanese J. Math. 16(2) (2012), 761-770.

[5] *Lorentzian manifolds having the Killing property*, Reports on Math. Phys. 69(3) (2012), 321-329.

[6] *Chen inequalities for submanifolds of real space forms with a semi-symmetric non-metric connection* (cu C. Ozgur), Canadian Math. Bull. 55(3) (2012), 611-622.

[7] *Certain Riemannian invariants for Sasakian submanifolds* (cu I. N. Radulescu), Publ. Math. Debrecen 83 (2013), 685-695.

[8] *Torse forming vector fields and exterior concurrent vector fields on Riemannian manifolds and applications* (cu I. Mihai), J. Geom. Phys. 73 (2013), 200-208.

[9] *Scalar and Ricci curvatures of special contact slant submanifolds in Sasakian space forms* (cu I. N. Radulescu), Advances in Geometry 14 (2014), 147-159.

[10] *Flat tensor product surfaces of pseudo-Euclidean curves* (cu B. Heroiu), Ann. Polonici Math. 111 (2014), 137-143.

[11] *Inequalities on the Ricci curvature*, Journal Math. Ineq. 9(3) (2015), 811-822.

[12] *Some inequalities on submanifolds in statistical manifolds of constant curvature* (cu M.E. Aydin și I. Mihai), Filomat 29(3) (2015), 465-476.

[13] *Geometry of the solutions of localized induction equation in the pseudo-Galilean space* (cu M.E. Aydin, A.O. Ogrenmis și M. Ergut), Adv. Math. Phys. Volume 2015, Art. ID 905978, 7 pages.

- [14] *Classification of quasi-sum production functions with Allen determinants* (cu M.E. Aydin), Filomat 29(6) (2015), 1351-1359.
- [15] *Translation hypersurfaces and Tzitzeica translation hypersurfaces of Euclidean space* (cu M.E. Aydin), Proc. Rom. Acad. Ser. A 16(4) (2015), 477-483.
- [16] *Generalized Wintgen inequality for statistical submanifolds in statistical manifolds of constant curvature* (cu M.E. Aydin si I. Mihai), Bull. Math. Sci. 7(1) (2017), 155-166.
- [17] *A note on derived connections from semi-symmetric metric connection*, Math. Slovaca 67(1) (2017), 221-226.
- [18] *Curvature invariants for statistical submanifolds of Hessian manifolds of constant Hessian curvature* (cu I. Mihai), Mathematics 2018, 6(3), 44.
- [19] *Curvature symmetries characterizing Einstein spaces* (cu U. Simon), Colloq. Math 152(1) (2018), 23-28.
- [20] *An inequality on quaternionic CR-submanifolds* (cu G. Macsim), Analele Stiintifice ale Universitatii "Ovidius" Constanta, Seria Matematica 26(3) (2018), 181-196.
- [21] *A  $\delta$ -invariant for QR-submanifolds in quaternion space forms* (cu G. Macsim), International Electronic Journal of Geometry 11(2) (2018), 8-17.
- [22] *On rectifying-type curves in a Myller configuration* (cu G. Macsim si A. Olteanu), Bull. Korean. Math. Soc. 56(2) (2019), 383-390.
- [23] *Ruled surfaces generated by elliptic cylindrical curves in the isotropic space* (cu M.E. Aydin), Georgian Math. Journal 26(3) (2019), 331-340.
- [24] *A Chen first inequality for statistical submanifolds in Hessian manifolds of constant Hessian curvature* (cu B.Y. Chen si I. Mihai), Results Math. 74(4) (2019), 165
- [25] *On warped product bi-slant submanifolds of Kenmotsu manifolds* (cu I. Mihai si S. Uddin), Arab J. Math. Sci. (2019), <https://doi.org/10.1016/j.ajmsc.2019.06.001>
- [26] *Chen inequalities for statistical submanifolds of Kaehler-like statistical manifolds* (cu H. Aytimur, M. Kon, C. Ozgur si K. Takano), Mathematics 2019, 7(12), 1202.
- [27] *Submanifolds in normal complex contact manifolds* (cu I. Mihai), Mathematics 2019, 7(12), 1195.
- [28] *Geometry of bi-warped product submanifolds of locally product Riemannian manifolds* (cu S. Uddin, I. Mihai si A. Al-Jedan), Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales, Serie A, Matemáticas, 114(1) (2020), art. 42.
- [29] *The  $\delta(2,2)$ -invariant on statistical submanifolds in Hessian manifolds of constant Hessian curvature* (cu I. Mihai), Entropy 2020, 22(2), 164.
- [30] *A note on surfaces in space forms with Pythagorean fundamental forms* (cu E. Aydin), Mathematics 2020, 8(3), 444.
- [31]  *$\delta(2,2)$ -invariant for Lagrangian submanifolds in quaternionic space forms* (cu G. Macsim si I. Mihai), Mathematics 2020, 8(4), 480.
- [32] *On the geometry of Einstein spaces: a note on their curvature symmetries*, Contemporary Mathematics 756 (2020), 155-162.

**E. Brevete obținute în întreaga activitate**

Premiul *Gheorghe Titeica* al Academiei Romane (Decembrie 2014) pentru grupul de lucrari (publicate in 2012) *Curvature Properties of Complex and Real Metric Manifolds. Applications.*

## 5. Prof. dr. Gheorghe MUNTEANU

### Publicații indexate Web of Science cu factor de impact relevant:

1. Ionescu, Alexandru; **Munteanu, Gheorghe** The warped product of holomorphic Lie algebroids. *An. Științ. Univ. "Ovidius" Constanța Ser. Mat.* 28 (2020), no. 1, 117–134. ISSN 1224-1784 (FI: 0,844)
2. Aldea, Nicoleta; **Munteanu, Gheorghe** On the class of complex Douglas-Kropina spaces. *Bull. Korean Math. Soc.* 55 (2018), no. 1, 251–266. ISSN: 1015-8634, (FI: 0,62)
3. Ionescu, Alexandru; **Munteanu, Gheorghe** Connections on the total space of a holomorphic Lie algebroid. *Mediterr. J. Math.* 14 (2017), no. 4, Art. 163, 23 pp., ISSN: 1660-5446, (IF: 1,000)
4. Aldea, Nicoleta; **Munteanu, Gheorghe** Recent results on complex Cartan spaces. *J. Geom. Phys.* 106 (2016), 155–170., ISSN:0393-0440, (FI:0,712)
5. Aldea, Nicoleta; **Munteanu, Gheorghe** A generalized Schrödinger equation via a complex Lagrangian of electrodynamics. *J. Nonlinear Math. Phys.* 22 (2015), no. 3, 361–373, ISSN:1402-9251, (IF: 0,760)
6. Aldea, Nicoleta; **Munteanu, Gheorghe** The main invariants of a complex Finsler space. *Acta Math.Sci. Ser. B Engl. Ed.* 34 (2014), no. 4, 995–1011. ISSN: 0252-9602, (IF: 0,661)
7. Aldea, Nicoleta; **Munteanu, Gheorghe** New candidates for a Hermitian approach of gravity. *Int. J. Geom. Methods Mod. Phys.* 10 (2013), no. 9, 1350041, 22 pp, ISSN: 0219-8878, (FI: 0,820)
8. Aldea, Nicoleta; **Munteanu, Gheorghe** On complex Douglas spaces. *J. Geom. Phys.* 66 (2013), 80–93., ISSN:0393-0440, (FI:0,712)
9. Aldea, Nicoleta; **Munteanu, Gheorghe** On projective invariants of the complex Finsler spaces. *Differential Geom. Appl.* 30 (2012), no. 6, 562–575. ISSN:0926-2245, (FI: 0,760)
10. **Munteanu, Gheorghe**; Aldea, Nicoleta A complex Finsler approach of gravity. *Int. J. Geom. Methods Mod. Phys.* 9 (2012), no. 7, 1250058, 16 pp. ISSN: 0219-8878, (FI: 0,820)
11. Aldea, Nicoleta; **Munteanu, Gheorghe**, Projectively related complex Finsler metrics. *Nonlinear Anal. Real World Appl.* 13 (2012), no. 5, 2178–2187 , ISSN: 1468-1218, (FI: 2,012).
12. Aldea, Nicoleta; **Munteanu, Gheorghe** On complex Landsberg and Berwald spaces. *J. Geom. Phys.* 62 (2012), no. 2, 368–380., ISSN: 0393-0440, (FI:0,712)

### III. Alte lucrari relevante in jurnale recenzate de Mathematical Reviews

13. Aldea, Nicoleta; **Munteanu, Gheorghe**, Some classes of complex Cartan spaces. *Rev. Roumaine Math. Pures Appl.* 57 (2012), no. 1, [On table of contents: Tome LV], 5–15.
14. Aldea, Nicoleta; **Munteanu, Gheorghe**, A survey of two-dimensional complex Finsler spaces. *Bull. Transilv. Univ. Brașov Ser. III* 5(54) (2012), no. 1, 1–22.
15. Aldea, Nicoleta; **Munteanu, Gheorghe**, Einstein equations in a weakly gravitational complex Finsler space. *Bull. Transilv. Univ. Brașov Ser. III* 5(54) (2012), no. 2, 1–14.

16. Aldea, Nicoleta; **Munteanu, Georghe**, On projective complex Randers changes. *Bull. Transilv. Univ. Braşov Ser. III* 5(54) (2012), Special Issue: Proceedings of the Seventh Congress of Romanian Mathematicians, 1-10, 1–10.
17. Zalutchi, Violeta; **Munteanu, Georghe**, Connections in the holomorphic jets bundle of order two. *An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.)* 57 (2011), suppl. 1, 279–290.
18. Aldea, Nicoleta; **Munteanu, Georghe**, Conformal complex Landsberg spaces. *An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.)* 57 (2011), suppl. 1, 3–12.
19. Aldea, Nicoleta; **Munteanu, Georghe**, New results on two-dimensional complex Finsler spaces. *Riemannian geometry and applications—Proceedings RIGA 2011, 5–16, Ed. Univ. Bucureşti, Bucharest, 2011.*
20. Aldea, Nicoleta; **Munteanu, Georghe**, Some classes of complex Cartan spaces. *Rev. Roumaine Math. Pures Appl.* 57 (2012), no. 1, [On table of contents: Tome LV], 5–15.
21. Aldea, Nicoleta; **Munteanu, Georghe**, A survey of two-dimensional complex Finsler spaces. *Bull. Transilv. Univ. Braşov Ser. III* 5(54) (2012), no. 1, 1–22.
22. Aldea, Nicoleta; **Munteanu, Georghe**, Einstein equations in a weakly gravitational complex Finsler space. *Bull. Transilv. Univ. Braşov Ser. III* 5(54) (2012), no. 2, 1–14.
23. Aldea, Nicoleta; **Munteanu, Georghe**, On projective complex Randers changes. *Bull. Transilv. Univ. Braşov Ser. III* 5(54) (2012), Special Issue: Proceedings of the Seventh Congress of Romanian Mathematicians, 1-10, 1–10.
24. Aldea, Nicoleta; **Munteanu, Georghe**, Conformal complex Landsberg spaces. *An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.)* 57 (2011), suppl. 1, 3–12.
25. Aldea, Nicoleta; **Munteanu, Georghe**, New results on two-dimensional complex Finsler spaces. *Riemannian geometry and applications—Proceedings RIGA 2011, 5–16, Ed. Univ. Bucureşti, Bucharest, 2011.*

## 6. Conf. dr. Mircea NEAGU

### A. Cărți și capitole în cărți publicate în ultimii 10 ani

- [1] V. Balan, M. Neagu: *"Jet Single-Time Lagrange Geometry and Its Applications"*, John Wiley & Sons, Inc., Hoboken, New Jersey, 2011.
- [2] O.V. Veko, E.M. Ovsyuk, A. Oană, M. Neagu, V. Balan, V.M. Red'kov: *"Spinor Structures in Geometry and Physics"*, Nova Publishers, New York, 2015.

### 2. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

- [1] M. Neagu: *"Jet geometrical objects produced by linear ODEs systems and superior order ODEs"*, Studia Universitatis Babeş-Bolyai Mathematica, Vol. LVI, No. 1 (2011), pp. 85-99.
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