

CURRICULUM VITAE

1. Nume: **NEAGU**

2. Prenume: **MIRCEA**

3. Data și locul nașterii: **28 Martie 1973, Brașov, România**

4. Cetățenie: **Română**

5. Studii:

Universitare/postuniversitare/doctorat

Instituția	Universitatea București, Facultatea de Matematică	Universitatea București, Facultatea de Matematică	Universitatea Politehnica din București
Perioada: de la (anul) până la (anul)	1991-1996	1996-1997	1997-2001
Grade sau diplome obținute	Diplomă de Licență (Matematică)	Diplomă de Magister (Geometrie)	Diplomă de Doctor (Matematică/Geometrie)

6. Alte specializări și calificări **Ajutor de Analist - Programator**

7. Titlul științific **Doctor în Matematică / Geometrie**

8. Experiența profesională și didactică

Funcția	Profesor de Matematică	Doctorand cu Frecvență	Asistent Doctor	Lector Doctor	
Perioada	15 Sept. 1996 - 31 Mar. 1997	01 Nov. 1997 - 14 Feb. 2002	01 Oct. 2002 - 30 Sept. 2004	01 Oct. 2004 - prezent	
Instituția	Școala generală Nr. 133	Universitatea Politehnica din București	Universitatea Transilvania din Brașov	Universitatea Transilvania din Brașov	
Locul	București	București	Brașov	Brașov	

9. Locul de muncă actual

Universitatea "Transilvania" din Brașov, România
Departamentul de Matematică și Informatică

10. Vechime la locul de muncă actual **11 ani și 9 luni**

11. Limbi străine cunoscute **ENGLEZĂ (mediu) și FRANCEZĂ (mediu)**

12. Lucrări elaborate și/ sau publicate (selecție a lucrărilor din ultimii cinci ani, în corelare cu disciplina predată)

12.1. Monografii

- [1] E. Stoica, M. Neagu: "*Algebră Liniară. Geometrie Analitică și Diferențială ~ Culegere de Probleme*", Editura Fair Partners, București, **2009**.
- [2] V. Balan, M. Neagu: "*Jet Single-Time Lagrange Geometry and Its Applications*", John Wiley & Sons, Inc., Hoboken, New Jersey, **2011**.
- [3] M. Neagu: "*Geometria Spațiilor Vectoriale. Teorie și Aplicații*", Matrix Rom, București, **2012**.
- [4] M. Neagu: "*Geometria Curbelor și Suprafețelor. Teorie și Aplicații*", Matrix Rom, București, **2013**.
- [5] Gh. Atanasiu, M. Neagu, A. Oană: "*The Geometry of Jet Multi-Time Lagrange and Hamilton Spaces. Applications in Theoretical Physics*", Fair Partners Publishers, Bucharest, **2013**.

12.2. Lucrări publicate în reviste de specialitate

- [1] Gh. Atanasiu, M. Neagu: "*Canonical nonlinear connections in the multi-time Hamilton geometry*", Balkan Journal of Geometry and Its Applications, Vol. **14**, No. **2** (**2009**), pp. 1-12. ISI ~ Web of Knowledge
- [2] Gh. Atanasiu, M. Neagu: "*Distinguished torsion, curvature and deflection tensors in the multi-time Hamilton geometry*", Electronic Journal "Differential Geometry – Dynamical Systems", Vol. **11** (**2009**), pp. 20-40.
- [3] V. Balan, M. Neagu: "*Jet geometrical extension of the KCC-invariants*", Balkan Journal of Geometry and Its Applications, Vol. **15**, No. **1** (**2010**), pp. 8-16. ISI ~ Web of Knowledge
- [4] M. Neagu, E. Stoica: "*Deflection d-tensor identities in the relativistic time dependent Lagrange geometry*", Journal of Advanced Mathematical Studies, Vol. **3**, No. **2** (**2010**), pp. 71-88.
- [5] V. Balan, M. Neagu: "*The 1-jet generalized Lagrange geometry induced by the rheonomic Chernov metric*", University Politehnica of Bucharest, Scientific Bulletin, Series A, Vol. **72**, Iss. **3** (**2010**), pp. 5-16. ISI ~ Web of Knowledge
- [6] M. Neagu: "*Jet geometrical objects depending on a relativistic time*", Analele Științifice ale Universității "Al.I. Cuza" din Iași (S.N.). Secțiunea Matematică, Tomul **LVI**, f.2 (**2010**), pp. 407-428. ISI ~ Web of Knowledge
- [7] M. Neagu: "*Geometrical objects on the first order jet space $J^1(I, \mathbb{R}^5)$ produced by the Lorenz atmospheric DEs System*", Carpathian Journal of Mathematics, Vol. **26**, No. **2** (**2010**), pp. 222-229. ISI ~ Web of Knowledge

- [8] Gh. Atanasiu, M. Neagu: "*Jet local Riemann-Finsler geometry for the three-dimensional time*", Hypercomplex Numbers in Geometry and Physics, No. 2 (14), Vol. 7 (2010), pp. 47-60.
- [9] 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.
- [10] M. Neagu: "*A relativistic approach on 1-jet spaces of the rheonomic Berwald-Moor metric*", Applied Sciences, Vol. 13 (2011), pp. 76-90.
- [11] M. Neagu: "*Jet Finsler-like geometry for the x -dependent conformal deformation of a one-parameter family of Berwald-Moor metrics of order four*", Bulletin of the Transilvania University of Braşov, Series III: Mathematics, Informatics, Physics, Vol. 4 (53), No. 2 (2011), pp. 31-42.
- [12] M. Neagu: "*Jet Finslerian geometry for the x -dependent conformal deformation of the rheonomic Berwald-Moor metric of order three*", Analele Universităţii de Vest din Timişoara, Seria Matematică - Informatică, Vol. XLIX, No. 2 (2011), pp. 89-100.
- [13] A. Oană, M. Neagu: "*A distinguished Riemannian geometrization for quadratic Hamiltonians of polymomenta*", Bulletin of the Transilvania University of Braşov, Series III: Mathematics, Informatics, Physics, Vol. 5 (54), No. 1 (2012), pp. 35-44.
- [14] A. Oană, M. Neagu: "*Distinguished Riemann-Hamilton geometry in the polymomentum electrodynamics*", Communications in Mathematics, Vol. 20, No. 2 (2012), pp. 137-145.
- [15] M. Neagu, N.G. Krylova, H.V. Grushevskaya: "*Jet theoretical Yang-Mills energy in the geometric dynamics of 2D-monolayer*", Journal of Mathematical Physics, Vol. 54, 031508 (2013), pp. 1-14; doi: 10.1063/1.4795715; ISI ~ Web of Knowledge; Relative Score of Influence (2013): 0.96
- [16] V. Balan, G. Grushevskaya, N. Krylova, M. Neagu, A. Oană: "*On the Berwald-Lagrange scalar curvature in the structuring process of the LB-monolayer*", Applied Sciences, Vol. 15 (2013), pp. 30-42.
- [17] M. Neagu: "*From conformal deformations of the jet Berwald-Moor metric to some non-isotropic geometrical Einstein-like equations*", Acta Universitatis Apulensis, No. 33 (2013), pp. 217-229.
- [18] A. Oană, M. Neagu: "*From quadratic Hamiltonians of polymomenta to abstract geometrical Maxwell-like and Einstein-like equations*", Novi Sad Journal of Mathematics, Vol. 43, No. 1 (2013), pp. 99-112.
- [19] M. Neagu, A. Oană, V.M. Red'kov: "*An anisotropic geometrical approach for non-relativistic extended dynamics*", Ricerche di Matematica, Vol. 62, Issue 2 (2013), pp. 323-340; DOI 10.1007/s11587-013-0154-8.
- [20] M. Neagu, M.M. Marin: "*From a dynamical system of the knee to natural jet geometrical objects*", Quarterly of Applied Mathematics, Vol. LXXI, No. 4 (2013), 689-705. ISI ~ Web of Knowledge; Relative Score of Influence (2013): 0.96

- [21] E. Ovsiyuk, O. Veko, M. Neagu, V. Balan, V. Redkov, "Some properties of parameters of Lorentz matrices and transitivity equations in polarization optics", Vesnik of Brest University, Series 4 Physics Mathematics, **1** (2013), pp. 18-29.

12.3. Lucrări publicate în volumele conferințelor de specialitate

- [1] Gh. Atanasiu, M. Neagu: "Distinguished tensors and Poisson brackets in the multi-time Hamilton geometry", The Int. Conf. of Diff. Geom. and Dynamical Systems (DGDS-2008) and The V-th Int. Colloq. of Mathematics in Engineering and Numerical Physics (MENP-5) – math. sections, August 29 - September 2, 2008, Mangalia, Romania; Geometry Balkan Press, Balkan Society of Geometers - Proceedings **16** (2009), pp. 12-27. **Proceedings ISI**
- [2] Gh. Atanasiu, M. Neagu: "On Cartan spaces with the m -th root metric", The IV-th International Conference "Finsler Extensions of Relativity Theory", November 2-8, 2008, Cairo, Egypt; Russian Hypercomplex Society; Hypercomplex Numbers in Geometry and Physics, No. **2** (12), Vol. **6** (2009), pp. 67-73.
- [3] M. Neagu, C. Udriște: "Geometric dynamics of plasma in jet spaces with Berwald-Moór metric", Proceedings of the 9-th WSEAS International Conference on System Science and Simulation in Engineering (ICOSSSE '10), Iwate, Japan, October 4-6, 2010 * *Selected Topics in System Science and Simulation in Engineering* (2010), pp. 42-49; ISSN: 1792-507X; ISBN: 978-960-474-230-1. **Proceedings ISI**
- [4] A. Oană, M. Neagu: "Jet Riemann-Hamilton geometrization for the conformal deformed Berwald-Moór quartic metric depending on momenta", The VIII-th International Conference "Finsler Extensions of Relativity Theory", June 25 - July 1, 2012, Moscow - Fryazino, Russia; Russian Hypercomplex Society; Hypercomplex Numbers in Geometry and Physics, No. **1** (17), Vol. **9** (2012), pp. 1-12, in press.
- [5] H. Raeisi-Dehkordi, M. Neagu: "On the symmetry group of the n -dimensional Berwald-Moor metric", Proceedings of the 12-th Conference on Applied Mathematics APLIMAT 2013, Faculty of Mechanical Engineering, Slovak University of Technology in Bratislava, (2013), P61 - 8pp. **Proceedings ISI**
- [6] M. Neagu: "Multi-time Kosambi-Cartan-Chern invariants and applications", BSG Proceedings, Vol. **20** (2013), pp. 36-50. **Proceedings ISI**
- [7] E. Ovsiyuk, O. Veko, M. Neagu, V. Balan, V. Red'kov: "Polarization optics. I. Some properties of parameters of Lorentz matrices and transitivity equations", BSG Proceedings, Vol. **20** (2013), pp. 51-63. **Proceedings ISI**
- [8] E. Ovsiyuk, O. Veko, M. Neagu, V. Balan, V. Redkov, "Distinguished Mueller-Lorentz matrices of the linear group $SL(4, R)$ and their representation in the Dirac basis", Proceedings of the Int. Conf. Innovative Technologies of Physics and Mathematics Training, 26-29 March 2013, Mozyr, Belarus, pp. 192-195.

12.4. Granturi și contracte de cercetare științifică

Programul/ Proiectul	Funcția	Perioada
Romanian Academy Grant No. 5 / 2008 / AR* (Proiect nr. R5 / 2007), UPB — Academia Română V. Balan: <i>Memorandumul de înțelegere privind cooperarea științifică dintre Academia Română și Fundația Rusă pentru Cercetarea Fundamentală</i>	Colaborator Extern	2008-2009
Romanian Academy Grant No. 4 / 2009 / AR* (Proiect nr. R5 / 2007), UPB — Academia Română V. Balan: <i>Memorandumul de înțelegere privind cooperarea științifică dintre Academia Română și Fundația Rusă pentru Cercetarea Fundamentală</i>	Colaborator Extern	2009-2010
Contract de Cercetare cu Terții: Firma Sinoptix — UTBv, No. 8441 / 2009; Valoare 4000 lei M. Neagu: <i>"Metode geometrice în studiul spațiilor Riemann, Lagrange și Hamilton. Aplicații"</i> Rezultate obținute: [1] M. Neagu, E. Stoica: <i>"Deflection d-tensor identities in the relativistic time dependent Lagrange geometry"</i> , Journal of Advanced Mathematical Studies, Vol. 3, No. 2 (2010), pp. 71-88. [2] M. Neagu: <i>"Jet geometrical objects depending on a relativistic time"</i> , Analele Științifice ale Universității "Al.I. Cuza" din Iași (S.N.). Secțiunea Matematică, Tomul LVI, f.2 (2010), pp. 407-428. ISI ~ Web of Knowledge [3] M. Neagu: <i>"Geometrical objects on the first order jet space $J^1(T, R^5)$ produced by the Lorenz atmospheric DEs System"</i> , Carpathian Journal of Mathematics, Vol. 26, No. 2 (2010), pp. 222-229. ISI ~ Web of Knowledge [4] A. Oană: <i>"On Ricci identities for submanifolds in the 2-osculator bundle"</i> , Iranian Journal of Mathematical Sciences and Informatics, Vol. 8, No. 2 (2013), pp. 1-21.	Coordonator	2009-2010
Romanian Academy Grant 1196 / 2012 - BRFFR-RA F12RA-002, UPB — Academia Română V.M. Red'kov, V. Balan: <i>Cadrul de cooperare științifică dintre Academia Română și Fundația Republicană Bielorussiană pentru Cercetarea Fundamentală</i>	Membru	2012-2014

12.5. Brevete de invenții

13. Membru în asociații profesionale și științifice

Balkan Society of Geometers, 1997.

Societatea de Științe Matematice din România, 2003.

14. Alte competențe (coordonare specializări, discipline, laboratoare)

15. Alte mențiuni

15.1. Participări la activități didactice în universități din țară și străinătate

- *Bursă de studii "TEMPUS" (1 Aprilie 1997 – 30 Iunie 1997) - Université de Nice Sophia-Antipolis, France § Profesor coordonator : Dl. Philippe Delanoë*

15.2. Organizare de evenimente științifice (conferințe, workshop-uri, etc.)

16. Premii și distincții

Diplomă de Apreciere (2008) (Facultatea de Matematică și Informatică, Universitatea "Transilvania" din Brașov), pentru articolul "*Jet Riemann-Lagrange geometry and some applications in Theoretical Biology*", Journal of Dynamical Systems and Geometric Theories, Vol. 6, No. 1 (2008), pp. 13-25; Autori: *Ileana Rodica Nicola și Mircea Neagu.*

Premiul CNCSIS * ISI * (2010) (Consiliul Național al Cercetării Științifice din Învățământul Superior, București), pentru articolul "*Jet geometrical extension of the KCC-invariants*", Balkan Journal of Geometry and Its Applications, Vol. 15, No. 1 (2010), pp. 8-16. Autori: *Vladimir Balan și Mircea Neagu.*

Premiul Universității "Transilvania" din Brașov (2011) (Universitatea "Transilvania" din Brașov), pentru monografia "*Jet Single-Time Lagrange Geometry and Its Applications*", John Wiley & Sons, Inc., Hoboken, New Jersey, 2011; Autori: *Vladimir Balan și Mircea Neagu.*

Premiul UEFISCDI * ISI * (2013) (Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării, București), pentru articolul "*Jet theoretical Yang-Mills energy in the geometric dynamics of 2D-monolayer*", Journal of Mathematical Physics, Vol. 54, 031508 (2013), pp. 1-14. Autori: *M. Neagu, N.G. Krylova și H.V. Grushevskaya.*

17. Experiența managerială

Prin prezenta declar că orele susținute în învățământul superior în anul universitar 2013 / 2014 nu depășesc două norme didactice.

Data: **27 Iunie 2014**

Lector doctor **MIRCEA NEAGU**



LUCRĂRI PUBLICATE

I. 10 lucrări reprezentative

- [1] V. Balan, M. Neagu: "*Jet Single-Time Lagrange Geometry and Its Applications*", John Wiley & Sons, Inc., Hoboken, New Jersey, 2011; ISBN 978-1-118-12755-1; -- 216 pages.
- [2] H. Raeisi-Dehkordi, M. Neagu: "*On the symmetry group of the n-dimensional Berwald-Moór metric*", Proceedings of the 12-th Conference on Applied Mathematics APLIMAT 2013, Faculty of Mechanical Engineering, Slovak University of Technology in Bratislava, (2013), P61 -- 8pp; ISBN 978-80-227-3865-1. **Proceedings ISI**
- [3] M. Neagu: "*Geometria Spațiilor Vectoriale. Teorie și Aplicații*", Matrix Rom, Bucharest, 2012; ISBN 978-973-755-771-1; -- 190 pages.
- [4] M. Neagu: "*Geometria Curbelor și Suprafețelor. Teorie și Aplicații*", Matrix Rom, Bucharest, 2013; ISBN 978-973-755-884-8; -- 238 pages.
- [5] M. Neagu: "*Generalized metrical multi-time Lagrange geometry of physical fields*", Journals from de Gruyter, Forum Mathematicum, Vol. **15**, No. **1** (2003), 63-92; **ISI ~ Web of Knowledge, Relative Score of Influence (2013): 1.39**
- [6] A. Oană, M. Neagu: "*Distinguished Riemann-Hamilton geometry in the polymomentum electrodynamics*", Communications in Mathematics, Vol. **20**, No. **2** (2012), pp. 137-145.
- [7] M. Neagu, A. Oană, V.M. Red'kov: "*An anisotropic geometrical approach for non-relativistic extended dynamics*", Ricerche di Matematica, Vol. **62**, Issue **2** (2013), pp. 323-340.
- [8] M. Neagu, N.G. Krylova, H.V. Grushevskaya: "*Jet theoretical Yang-Mills energy in the geometric dynamics of 2D-monolayer*", Journal of Mathematical Physics, Vol. **54**, 031508 (2013), 1-14; doi: 10.1063/1.4795715; **ISI ~ Web of Knowledge, Relative Score of Influence (2013): 0.96**
- [9] V. Balan, M. Neagu: "*Jet geometrical extension of the KCC-invariants*", Balkan Journal of Geometry and Its Applications, Vol. **15**, No. **1** (2010), 8-16; **ISI ~ Web of Knowledge**
- [10] M. Neagu, M.M. Marin: "*From a dynamical system of the knee to natural jet geometrical objects*", Quarterly of Applied Mathematics, Vol. **LXXI**, No. **4** (2013), 689-705; **ISI ~ Web of Knowledge, Relative Score of Influence (2013): 0.96**

II. Teza de doctorat

- [11] M. Neagu: "*Geometria Riemann-Lagrange a Spațiilor de Jeturi de Ordinul Întâi*" (in Romanian), University "Politehnica" of Bucharest, 2001, -- 202 pages.

III. Cărți

- [12] **M. Neagu**: "Riemann-Lagrange Geometry on 1-Jet Spaces", Matrix Rom, Bucharest, 2005; ISBN 973-685-940-1; -- 148 pages.
- [13] **M. Neagu, A. Oană**: "Geometrie Superioară în Plan și în Spațiu", Editura Universității Transilvania, Brașov, 2008; ISBN 978-973-598-356-7; -- 267 pages.
- [14] **E. Stoica, M. Neagu**: "Algebră liniară. Geometrie Analitică și Diferențială ~ Culegere de Probleme", Fair Partners, Bucharest, 2009; ISBN 978-973-1877-26-6; -- 280 pages.
- [15] **Gh. Atanasiu, M. Neagu, A. Oană**: "The Geometry of Jet Multi-Time Lagrange and Hamilton Spaces. Applications in Theoretical Physics", Fair Partners Publishers, Bucharest, 2013. ISBN 978-973-1877-89-1; -- 170 pages.

IV. Articole publicate în reviste din fluxul științific internațional principal

- [16] **M. Neagu, C. Udriște, A. Oană**: "Multi-time dependent sprays and h-traceless maps", Balkan Journal of Geometry and Its Applications, Vol. **10**, No. **2** (2005), 76-92. ISI ~ Web of Knowledge
- [17] **M. Neagu, C. Udriște**: "A Riemann-Lagrange geometrization for metrical multi-time Lagrange spaces", Balkan Journal of Geometry and Its Applications, Vol. **11**, No. **1** (2006), 87-98. ISI ~ Web of Knowledge
- [18] **Gh. Atanasiu, M. Neagu**: "Canonical nonlinear connections in the multi-time Hamilton geometry", Balkan Journal of Geometry and Its Applications, Vol. **14**, No. **2** (2009), 1-12. ISI ~ Web of Knowledge
- [19] **V. Balan, M. Neagu**: "The 1-jet generalized Lagrange geometry induced by the rheonomic Chernov metric", University Politehnica of Bucharest, Scientific Bulletin, Series A, Vol. **72**, Iss. **3** (2010), 5-16. ISI ~ Web of Knowledge
- [20] **M. Neagu**: "Jet geometrical objects depending on a relativistic time", Analele Științifice ale Universității "Al.I. Cuza" din Iași (S.N.). Matematică, Tomul **LVI**, f. **2** (2010), 407-428. ISI ~ Web of Knowledge
- [21] **M. Neagu**: "Geometrical objects on the first order jet space $J^1(T, R^5)$ produced by the Lorenz atmospheric DEs System", Carpathian Journal of Mathematics, Vol. **26**, No. **2** (2010), 222-229. ISI ~ Web of Knowledge
- [22] **C. Udriște, M. Neagu**: "Geometrical interpretation of solutions of certain PDEs", Balkan Journal of Geometry and Its Applications, Vol. **4**, No. **1** (1999), 145-152.
- [23] **M. Neagu**: "Riemann-Lagrange geometrical background for multi-time physical fields", Balkan Journal of Geometry and Its Applications, Vol. **6**, No. **2** (2001), 49-71.
- [24] **M. Neagu, C. Udriște**: "Torsion, curvature and deflection d-tensors on $J^1(T, M)$ ", Balkan Journal of Geometry and Its Applications, Vol. **6**, No. **1** (2001), 29-45.

- [25] **M. Neagu**: "The geometry of autonomous metrical multi-time Lagrange space of electrodynamics", Hindawi Publishing Corporation, International Journal of Mathematics and Mathematical Sciences, Vol. **29**, No. **1** (2002), 7-16.
- [26] **M. Neagu**: "Ricci and Bianchi identities for h -normal Γ -linear connections on $J^1(T, M)$ ", Hindawi Publishing Corporation, International Journal of Mathematics and Mathematical Sciences, Vol. (2003), No. **34**, 2177-2192.
- [27] **M. Neagu, I.R. Nicola**: "Geometric dynamics of calcium oscillations ODEs systems", Balkan Journal of Geometry and Its Applications, Vol. **9**, No. **2** (2004), 36-67.
- [28] **M. Neagu**: "From Euler-Lagrange equations to canonical nonlinear connections", Archivum Mathematicum (Brno), No. **3**, Tomus **42** (2006), 255-263.
- [29] **M. Neagu**: "From first order PDE-systems to harmonic maps between generalized Lagrange spaces", Novi Sad Journal of Mathematics, Vol. **37**, No. **1** (2007), 93-106.
- [30] **I.R. Nicola, M. Neagu**: "Jet Riemann-Lagrange geometry and some applications in Theoretical Biology", Journal of Dynamical Systems and Geometric Theories, Vol. **6**, No. **1** (2008), 13-25.
- [31] **A. Oană, M. Neagu**: "From quadratic Hamiltonians of polymomenta to abstract geometrical Maxwell-like and Einstein-like equations", Novi Sad Journal of Mathematics, Vol. **43**, No. **1** (2013), pp. 99-112.
- [32] **Gh. Atanasiu, M. Neagu**: "Distinguished torsion, curvature and deflection tensors in the multi-time Hamilton geometry", Electronic Journal "Differential Geometry - Dynamical Systems", Vol. **11** (2009), 20-40.
- [33] **M. Neagu, E. Stoica**: "Deflection d -tensor identities in the relativistic time dependent Lagrange geometry", Journal of Advanced Mathematical Studies, Vol. **3**, No. **2** (2010), 71-88.
- [34] **M. Neagu**: "Jet geometrical objects produced by linear ODEs systems and superior order ODEs", Studia Universitatis Babeş-Bolyai Mathematica, Vol. **LVI**, No. **1** (2011), 85-99.
- [35] **M. Neagu**: "A relativistic approach on 1-jet spaces of the rheonomic Berwald-Moor metric", Applied Sciences, Vol. **13** (2011), 76-90.
- [36] **M. Neagu**: "Jet Finsler-like geometry for the x -dependent conformal deformation of a one-parameter family of Berwald-Moor metrics of order four", Bulletin of the Transilvania University of Braşov, Series III: Mathematics, Informatics, Physics, Vol. **4** (53), No. **2** (2011), 31-42.
- [37] **M. Neagu**: "Jet Finslerian geometry for the x -dependent conformal deformation of the rheonomic Berwald-Moor metric of order three", Analele Universităţii de Vest din Timişoara, Seria Matematică – Informatică, Vol. **XLIX**, No. **2** (2011), 89-100.
- [38] **A. Oană, M. Neagu**: "A distinguished Riemannian geometrization for quadratic Hamiltonians of polymomenta", Bulletin of the Transilvania University of Braşov, Series III: Mathematics, Informatics, Physics, Vol. **5** (54), No. **1** (2012), 35-44.
- [39] **V. Balan, G. Grushevskaya, N. Krylova, M. Neagu, A. Oană**: "On the Berwald-Lagrange scalar curvature in the structuring process of the LB-monolayer", Applied Sciences, Vol. **15** (2013), 30-42.

- [40] **M. Neagu**: "From conformal deformations of the jet Berwald-Moor metric to some non-isotropic geometrical Einstein-like equations", Acta Universitatis Apulensis, No. **33** (2013), 217-229.

V. Articole apărute în lucrări ale principalelor conferințe internaționale de specialitate

- [41] Gh. Atanasiu, **M. Neagu**: "Distinguished tensors and Poisson brackets in the multi-time Hamilton geometry", The Int. Conf. of Diff. Geom. and Dynamical Systems (DGDS-2008) and The V-th Int. Colloq. of Mathematics in Engineering and Numerical Physics (MENP-5) - math. sections, August 29 - September 2, 2008, Mangalia, Romania; Geometry Balkan Press, Balkan Society of Geometers - Proceedings **16** (2009), 12-27; ISSN 1843-2654 - Printed version; ISSN 1843-2859 - Electronic version. **Proceedings ISI**
- [42] **M. Neagu**: "Multi-time Kosambi-Cartan-Chern invariants and applications", BSG Proceedings, Vol. **20** (2013), pp. 36-50. **Proceedings ISI**
- [43] E. Ovsyuk, O. Veko, **M. Neagu**, V. Balan, V. Red'kov: "Polarization optics. I. Some properties of parameters of Lorentz matrices and transitivity equations", BSG Proceedings, Vol. **20** (2013), pp. 51-63. **Proceedings ISI**
- [44] **M. Neagu**: "Solutions of inverse problems for variational calculus", Proceedings of Workshop on Global Analysis, Differential Geometry and Lie Algebras, No. **4** (1998); Balkan Society of Geometers, Ed. Geometry Balkan Press, Bucharest; Editor: Prof. Dr. Grigorios Tsagas, University Aristotle of Thessaloniki, Greece, 180-187; ISSN 1843-2654 - Printed version; ISSN 1843-2859 - Electronic version.
- [45] C. Udriște, **M. Neagu**: "Extrema of p -energy functional on a Finsler manifold", Proceedings of Workshop on Global Analysis, Differential Geometry and Lie Algebras, No. **3** (1999); Balkan Society of Geometers, Ed. Geometry Balkan Press, Bucharest; Editor: Prof. Dr. Grigorios Tsagas, University Aristotle of Thessaloniki, Greece, 175-185; ISSN 1843-2654 - Printed version; ISSN 1843-2859 - Electronic version.
- [46] **M. Neagu**: "The geometry of relativistic rheonomic Lagrange spaces", Proceedings of Workshop on Global Analysis, Differential Geometry and Lie Algebras, No. **5** (2001); Balkan Society of Geometers, Ed. Geometry Balkan Press, Bucharest; Editor: Prof. Dr. Grigorios Tsagas, University Aristotle of Thessaloniki, Greece, 142-169; ISSN 1843-2654 - Printed version; ISSN 1843-2859 - Electronic version.
- [47] **M. Neagu**, C. Udriște: "Geometric dynamics of plasma in jet spaces with Berwald-Moor metric", Proceedings of the 9-th WSEAS International Conference on System Science and Simulation in Engineering (ICOSSSE '10), Iwate, Japan, October 4-6, 2010; **Selected Topics in System Science and Simulation in Engineering** (2010), 42-49; ISSN: 1792-507X; ISBN: 978-960-474-230-1 **Proceedings ISI**

VI. Alte lucrări

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