Curriculum vitae Europass

Informaţii personale

Nume / Prenume	Florian Munteanu
Adresă(e)	
Telefon(oane)	
E-mail(uri)	florian.munteanu@edu.ucv.ro, munteanufm@central.ucv.ro
Naţionalitate	Romană
Data naşterii	18 aprilie 1973
Sex	Masculin
Stare civilă	Căsătorit, un copil

Experienţa profesională

Perioada	01.10.2025 - prezent, 01.10.2003 - 30.09.2025, 01.10.1999 - 30.09.2003, respectiv 01.10.1997 - 30.09.1999
Funcţia sau postul ocupat	Conferentiar universitar, Lector universitar, asistent universitar, respectiv preparator universitar
Activităţi şi responsabilităţi principale	Predare, seminarizare, cercetare
Discipline predate şi seminarizate	Algebră liniară, geometrie analitică și diferențială, Teoria probabilităților și statistică matematică, Analiză matematică, Matematici speciale II (Probabilități și statistică matematică), Introducere în metoda elementului finit, Matematici speciale (Algebră liniară, analiză matematică, probabilități și statistică matematică), Matematici aplicate în economie, Teoria numerelor
Numele şi adresa angajatorului	Universitatea din Craiova, str. A.I. Cuza, nr. 13, 200585 Craiova, Romania
Tipul activităţii sau sectorul de activitate	Învăţământ superior şi Cercetare – Universitatea din Craiova, Facultatea de Automatică, Calculatoare și Electronică, Departamentul de Calculatoare și Tehnologia Informației - DCTI

Educaţie şi formare

Perioada	01.03 2003-31.05.2003
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Bursa postdoctorala a Guvernul Romaniei, prin ONBSS-MEC Departamento de Xeometria e Topoloxia, Universidade de Santiago de Compostela, Santiago de Compostela, Spania
Perioada	01.11.1997 – 23.05.2002
Calificarea / diploma obţinută	Studii doctorale/Diploma de Doctor în Matematică
Disciplinele principale studiate / competenţe profesionale dobândite	Discipline din domeniul: Geometrie diferenţială Geometrii Lagrange-Finsler-Hamilton, Metode geometrice pentru studiul sistemelor dinamice, titlul de Doctor în Matematică în 23 mai 2002 cu teza de doctorat

intitulată: “Spaţii Lagrange şi spaţii Hamilton. Aplicaţii la sisteme dinamice Hamiltoniene”.

Numele şi tipul instituţiei de învăţământ / furnizorului de formare — Universitatea din Craiova/Facultatea de Matematică-Informatică

Perioada — 15.03.1997-15.06.1997

Numele şi tipul instituţiei de învăţământ / furnizorului de formare — Bursa TEMPUS în timpul studiilor de master
Laboratoire D’Analyse Numerique, Universite “Pierre et Marie Curie” Paris, France

Perioada — 1996-1997

Calificarea / diploma obţinută — Studii de master, Specializarea Sisteme dinamice. Ecuaţii de evoluţie/
Diploma de Master cu media **10**

Disciplinele principale studiate / competenţe profesionale dobândite — Analiza funcţională, Calcul variaţional, Ecuaţii de evoluţie, Sisteme dinamice,

Numele şi tipul instituţiei de învăţământ / furnizorului de formare — Universitatea din Craiova, Facultatea de Matematică-Informatică

Perioada — 1991 – 1996

Calificarea / diploma obţinută — Studii universitare / Diploma de Licenţă, Profilul: Matematică
Media celor 5 ani de studii: **9,91**

Disciplinele principale studiate / competenţe profesionale dobândite — Algebră liniară, Algebră abstractă, Teoria numerelor, Teoria categoriilor, Topologie, Geometrie analitică, Geometrie diferenţială, Analiză reală, Analiză complexă, Teoria măsurii, Probabilităţi, Statistică matematică, Ecuaţii diferenţiale, Ecuaţii cu derivate parţiale, Analiză funcţională, Mecanică, Informatică, Programarea calculatoarelor, Fizică, Limba engleză, etc.

Numele şi tipul instituţiei de învăţământ / furnizorului de formare — Universitatea din Craiova, Facultatea de Matematică-Informatică

Perioada — 1987 – 1991

Calificarea / diploma obţinută — Studii liceale / Profilul: Matematică-Fizică / Diplomă de Bacalureat cu media **9.25**

Disciplinele principale studiate / competenţe profesionale dobândite — Matematică, Fizică, Chimie, Biologie, Geografie, Istorie, Lb. şi lit. Română, Economie, Filozofie, Discipline tehnice, Limba Franceză, Limba Rusă, etc.

Numele şi tipul instituţiei de învăţământ / furnizorului de formare — Colegiul Naţional Fraţii Buzeşti, Craiova

Aptitudini şi competenţe personale

Limba(i) maternă(e) — **Română**

Limba(i) străină(e) cunoscută(e) — **Engleză, franceză**

Autoevaluare	**Înţelegere**				**Vorbire**				**Scriere**	
Nivel european (*)	Ascultare		Citire		Participare la conversaţie		Discurs oral		Exprimare scrisă	
Limba engleză	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat
Limba franceză	C1	Utilizator experimentat	C1	Utilizator experimentat	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent

(*) Nivelul Cadrului European Comun de Referinţă Pentru Limbi Străine
Certificat de competenta lingvistica, Facultatea de Litere, Universitatea din Craiova,
Diploma "Alliance Francaise", filiala Craiova, 1997

Competenţe şi abilităţi sociale | Optimist, deschis la dialog, lucru in echipa si individual.

Competenţe şi aptitudini organizatorice | Bun organizator, lucru in echipa, rezistenta la efort si stres. Permis auto categoria B, din luna septembrie 1992.

Competenţe şi aptitudini tehnice | Abilitati in domeniul depanarii PC, periferice si in domeniul electric, electronic, automatizări.

Competenţe şi aptitudini de utilizare a calculatorului | Utilizare sistem de operare Windows, cunoastere pachetului de programe Microsoft Office, programare Pascal, C, tehnoredactare in Latex, Scientific Word, Maple, Matlab, Mathematica, grafica pe calculator.

Informaţii suplimentare

Proiecte/granturi internaționale:

1. EU research grant FP7-PEOPLE-2012-IRSES-316338: Dynamical systems and their applications, 01.10.2012-30.09.2016,valoare totală 500.000,00 euro, Experimented Researcher (ER), cu mobilitățile științifice individuale:

1) 01.03.2013-31.03.2013, Department of Mathematics, Shanghai Jiao Tong University, China
2) 10.02.2014-10.04.2014, Department of Mathematics, University of Sao Paolo at Sao Carlos, Brasil
3) 24.06.2015-23.07.2015, Department of Mathematics and Mechanics, Belarusian Stat University of Minsk, Belarus

2. EU research grant Horizon2020-2017-RISE-777911: Dynamics. Contributions to codimension k bifurcations in dynamical systems theory, 01.04.2018-31.03.2022, valoare totală 1.012.500,00 euro, Experimented Researcher (ER), cu mobilitățile științifice individuale:

1) 15.08.2018-30.09.2018, Department of Mathematics, University of North Carolina at Charlotte, USA
2) 15.02.2019-30.04.2019, 01.09.2019-30.09.2019, ACMIT Gmbh, Wiener Neustadt, Austria
3) 05.02.2020-05.04.2020, Department of Mathematics, University of Sao Paolo at Sao Carlos, Brasil
4) 16.08.2020-30.09.2020, ACMIT Gmbh, Wiener Neustadt, Austria
5) 15.09.2021-30.10.2021, Department of Mathematics, Yanka Kupala State University of Grodno, Belarus
6) 09.09.2022-23.10.2022, ACMIT Gmbh, Wiener Neustadt, Austria

Proiecte/granturi naționale:

1. CNCSIS-MedC grant nr. 81: Geometria subspaţiilor Finsler, Lagrange şi Hamilton. Aplicaţii în mecanică, 2005, membru

2. CNCSIS-MedC grant nr. 100: Integrarea asimptotică a unor clase de modele diferenţiale din ecologie şi mecanica fluidelor, 2007, membru

Proiecte/granturi locale:

1.Universitatea din Craiova grant nr. 19C: Ecuaţii diferenţiale: Studiul calitativ, procesare numerică eficientă şi aplicaţii, 2014, membru

2. Universitatea din Craiova grant nr. 3C: Metode cantitative şi calitative utilizate în studiul activităţilor de turism din judeţul Mehedinţi şi posibilităţi de optimizare a acestora, 2014, membru

Școli internaționale:

1. Școala Internațională de Primavară de Geometrie Riemanniană organizată de Ambasada Franței, Sinaia, mai 1995

2. Școala Internatională de Toamnă de Geometrie Convexă şi Discretă, organizată de Facultățile de Matematică din Dormund şi Craiova, Craiova, septembrie 2004.

Mobilitaţi individuale finanțate prin Programul European GRUNDTVIG LLP sau ERASMUS:

1. 28.06.2011-02.07.2011, European Initiative for Education, H.O. Staglgasse 13, Wiener Neustadt 2700, Austria
2. 26.09.2011-30.09.2011, Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece
3. 24.09.2012-28.09.2012, Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece
4. 01.11.2013-08.11.2013, Departamento de Xeometria e Topoloxia, Universidade de Santiago de Compostela, Santiago de Compostela, Spania
5. 19.04.2015-26.04.2015, Department of Mathematics, Uludag University of Bursa, Turkey

64 de publicaţii:
1. Monografii, manuale și capitole: 11
2. Articole în reviste indexate ISI: 22
3. Articole în reviste indexate BDI: 20
4. Articole în alte reviste și în volume ale unor conferințe: 11
5. Participări la conferințe, cu susținerea unor lucrări: 52

Standarde naționale CNATDCU îndeplinite: S_recent = 5,784; S = 6,745; C = 67

ORCID: https://orcid.org/0000-0002-4174-3535
Web of Science Researcher ID: F-2192-2015
Scopus Author ID: 56017707000
SciProfiles: 297797
https://www.researchgate.net/profile/Florian-Munteanu?ev=hdr_xprf

Membru al asociaţiilor profesionale:
1. Societatea Științifică a Matematicienilor din Romania (SSMR), din 1997
2. Societatea Națională de Geometrii Lagrange-Hamilton și Aplicații, din 2004
3. Societatea Romană de Matematică Aplicată și Industriala (ROMAI), din 2015

Citări:
106 citări in articole cotate ISI (h-index 6); 116 citări in articole Scopus (h-index 6);
234,4 Research Gate Interest Score, mai mare decât 76% dintre membrii portalului ştiințific researchgate.net, 7.297 Reads, 278 Citations (h-index 9);
307 citări in articole Scholar Google (h-index 9; i10-index 7)

Recenzor:
American Mathematical Society (AMS)-Mathematical Reviews, Mathematical Methods in Applied Sciences, Nonlinear Dynamics, International Journal of Geometric Methods in Modern Physics, Journal of Mathematical Physics, Symmetry, Mathematics, Axioms, International Journal of Molecular Sciences, Science Asia - Science Society of Thailand, Fractal and Fractional, Applied System Innovation, Applied Math, Applied Sciences, Geometry, Applied System Innovation, Electronics, Materials, Particles, International Frontier Science Letters

Premii:
Premiul III - Gala Cercetării 2023 - Universitatea din Craiova, secţiunea Matematică şi Științele Naturii
Menţiune - Gala Cercetării 2024 - Universitatea din Craiova, secţiunea Matematică şi Științele Naturii

Publicaţii

Teza de doctorat:
"Spaţii Lagrange şi spaţii Hamilton. Aplicaţii la sisteme dinamice Hamiltoniene", Universitatea din Craiova, domeniul Matematică, specializarea Geometrie diferenţială, conducător ştiinţific prof. univ. emerit dr. Petre Stavre, susţinută public în data de 23 mai 2002, Diploma de doctor: Seria C, Nr. 0001589/14/ 09.09.2002, pe baza Ordinului M.Ed.C. nr. 4198 din 29.07.2002.

11 cărţi:
1. Stănescu M.M., Munteanu F., Slesar V., Caiet de seminar pentru Algebră

liniară, Geometrie analitică şi Geometrie diferenţială, Reprografia Universitatii din Craiova, 2000, 300 pag

2. Stavre, P., Munteanu F., Popescu L., Slesar V., Probleme de algebră şi analiză matematică (teste grilă), Editura Universitaria, Craiova, 2002, 115 pag

3. Stănescu M.M., Munteanu F., Slesar V., Probleme de Algebră liniară, Geometrie analitică şi Geometrie diferenţială, Editura Universitaria, Craiova, 2003, 286 pag

4. Stănescu M.M., Munteanu F., Slesar V., Culegere de probleme de Algebră liniară, Geometrie analitică şi Geometrie diferenţială, Editura Sitech, Craiova, 2006, 282 pag

5. Vladimirescu I., Munteanu F., Algebra liniară, Geometrie analitică şi Geometrie diferenţială, Editura Universitaria, Craiova, 2011, 220 pag

6. Stănescu M.M., Munteanu F., Slesar V., Culegere de probleme de Algebră liniară, Geometrie analitică şi Geometrie diferenţială, ed. a II-a Editura Sitech, Craiova, 2010, 280 pag

7. Boureanu, M.M., Danet, C., Diamandescu, A., Ionescu, A.J., Militaru, R., Munteanu, F., Popescu, G., Popescu, M., Popescu, P., Racila, M., Vladimirescu, C., Qualitative Study of Differential Equations, Geometrical and Dynamical Aspects of Some Mechanical Systems, Numerical Treatment, and Applications, Ed. Universitaria, Craiova 2015, 430 pag. (capitolele 8 şi 9)

ISBN 978-606-26-0168-3

8. Vladimirescu, C., Munteanu, F, Boureanu, M.M., Constantinescu, D., Danet, C., Florea, A., Temereanca, L., Popescu,G., Catalin Sterbeti, C., Bala, D., 101 Teste pentru Proba Scrisa la Matematica a Examenului de Admitere la Licenta la Facultatea de Automatica, Calculatoare si Electronica, Ed. Universitaria, Craiova 2018, iii+335 pag., ISBN 978-606-14-1353-9

9. Bacaër, N., Halanay, A., Avram, F., Munteanu, F., O scurtă istorie a modelării matematice a dinamicii populațiilor (in Romanian), Ed. Cassini, Paris, 2022 ISBN 979-10-343-8992-6

10. Bacaër, N., Maxin, D., Munteanu, F., Avram, F., Georgescu, P., Stoleriu, I., Halanay, A., Matematică și epidemii (in Romanian), Ed. Cassini, Paris, 2022 ISBN 979-10-343-0320-5

11. Bala, D., Boureanu,M.M. Bucur, L., Danet, C., Grecu, L., Munteanu, F., Popescu, G., Racila, M., Temereanca, L., Vladimirescu, C., Teste Grila Proba Scrisa la Matematica a Examenului de Admitere la Licenta la Facultatea de Automatica, Calculatoare si Electronica, Domeniul Calculatoare si Tehnologia Informatiei, Editura Universitaria, Craiova, 2024, iii+446 pag., ISBN 978-606-14-2002-5

53 de articole publicate: 21 recenzate in Zentralblatt si 30 recenzate in Mathematical Reviews

22 lucrari sunt indexate ISI, astfel:

ISI Journals:

1. Munteanu F., Salgado M., Angel M. Rey, The Günther's formalism in classical field theory: momentum map and reduction, Journal of Mathematical Physics, vol. 45, no. 5, May, 2004, pp. 1730-1751, ISSN 0022-2488 (1,43 IF)
2. Munteanu, F., About symmetries and conservation laws in Lagrangian and Hamiltonian k-symplectic formalism, An. Univ. Al.I. Cuza din Iasi (S.N.), Mat., tom LIII, 2007, supl 249-267, ISSN 1221-8421 (0,25 IF)
3. Munteanu, F., Symmetries, psudosymmetries and conservation laws in Lagrangian and Hamiltonian k-symplectic formalisms, Int. J. Geom. Meth. Mod. Phys., 13 (03), (2016), 1650026 (15 pages) ISSN 0219-8878 (1,287 IF)
4. Munteanu, F., On the k-Semispray of Nonlinear Connections in k-Tangent Bundle Geometry, Int. Frontier Sci. Lett., vol. 7, (2016), pp. 1-10, ISSN 2349-4484. DOI: https://doi.org/10.18052/www.scipress.com/IFSL.7.1
5. Efrem, R., Ionescu, A., Munteanu, F., On a recursive method for feedback linearization of nonlinear systems: the case of mixing flow dynamical system, Atti della Accademia Peloritana dei Pericolanti-Classe di Scienze Fisiche, Matematiche e Naturali, vol. 97, no. S2 (A2), 7 pag, 2019, ISSN 1825-1242, DOI: https://doi.org/10.1478/AAPP.97S2A2

6. Tigan G., Lazureanu C., Munteanu, F., Sterbeti, C., Florea, A., Bifurcation diagrams in a class of Kolmogorov systems, Nonlinear Analysis: Real World Applications, vol. 56, 2020, 103154 (14 pag) ISSN: 1468-1218 (2,072 IF)

7. Tigan G., Lazureanu C., Munteanu, F., Sterbeti, C., Florea, A., Analysis of a class of Kolmogorov systems, Nonlinear Analysis: Real World Applications, vol. 57, 2021, 103202 (17 pag) ISSN: 1468-1218 (2,072 IF)

8. Munteanu, F., Analyzing the Jacobi Stability of Lü's Circuit System, Symmetry, 2022, 14 (6), pp. 1248 (12 pages), ISSN 2073-8994, https://doi.org/10.3390/sym14061248 (2,94 IF)

9. Munteanu, F., A Comparative Study of Three Mathematical Models for the Interaction between the Human Immune System and a Virus, Symmetry, 2022, 14 (8), pp. 1594 (12 pages), ISSN 2073-8994, https://doi.org/10.3390/sym14081594 (2,94 IF)

10. Munteanu, F., A Study of the Jacobi Stability of the Rosenzweig–MacArthur Predator–Prey System through the KCC Geometric Theory, Symmetry, 2022, 14 (9), pp. 1815 (16 pages), ISSN 2073-8994, https://doi.org/10.3390/sym14091815 (2,94 IF)

11. Munteanu, F., Grin, A., Musafirov, E., Pranevich, A., Şterbeţi, C., About the Jacobi Stability of a Generalized Hopf–Langford System through the Kosambi–Cartan–Chern Geometric Theory, Symmetry, 2023, 15 (3), pp. 598 (13 pages), ISSN 2073-8994, https://doi.org/10.3390/sym15030598 (2,94 IF)

12. Munteanu, F., On the Jacobi Stability of Two SIR Epidemic Patterns with Demography, Symmetry, 2023, 15 (5), pp. 1110 (30 pages), ISSN 2073-8994, https://doi.org/10.3390/sym15051110 (2,94 IF)

13. Munteanu, F., A Local Analysis of a Mathematical Pattern for Interactions between the Human Immune System and a Pathogenic Agent, Entropy, 2023, 25 (10), pp. 1392 (20 pages), ISSN 1099-4300, https://doi.org/10.3390/e25101392 (2,70 IF)

14. Munteanu, F., Jacobi Stability for T-System, Symmetry, 2024, 16 (1), pp. 84 (16 pages), ISSN 2073-8994, https://doi.org/10.3390/sym16010084 (2.94 IF)

ISI Proceedings Conferences:

1. Munteanu F., On the Semispray of Nonlinear Connections in Rheonomic Lagrange Geometry, Proc. of International Conference of Finsler and Lagrange Geometry, Iasi, Romania, "Al. I. Cuza" University of Iassy, edited by M. Anastasiei, Kluwer Academic Publishers, 2003, pp. 129-137, ISBN/SKU 1402013906

2. Militaru R., Munteanu F., Computational Analysis of Conservation Laws for Prey-Predator Lotka-Volterra Systems, Proc. of ICATE 2014-International Conference on Applied and Theoretical Electricity, October 23-25, 2014, University of Craiova, Romania, Editor IEEE, pp.1-7, DOI: 10.1109/ICATE.2014.6972592

3. Munteanu, F., Ionescu A., A Geometric and Computational Analysis of Chua's Circuit System, Proc. of 2016 International Conference on Applied and Theoretical Electricity (ICATE), October 6-8, 2016, University of Craiova, Romania, Editor IEEE, pp. 1-5, DOI: 10.1109/ICATE.2016.7754602

4. Munteanu, F., Ionescu A., A Note on the Behavior of the Lü Dynamical System in a Slightly Simplified Version, Proc. of 2018 International Conference on Applied and Theoretical Electricity (ICATE), October 4-6, 2018, University of Craiova, Romania, Editor IEEE, pp. 1-4, DOI: 10.1109/ICATE.2018.8551467

5. Ionescu A., Munteanu, F., Efrem, R., On Feedback Controlling of a Smooth Version of Chua Dynamical System, Proc. of 2018 International Conference on Applied and Theoretical Electricity (ICATE), October 4-6, 2018, University of Craiova, Romania, Editor IEEE, pp. 1-4, DOI: 10.1109/ICATE.2018.8551412

6. Munteanu, F., A study of a three-dimensional competitive Lotka–Volterra system, ITM Web of Conferences, vol. 34, 03010 (14 pages), 2020, EDP Sciences, DOI: 10.1051/itmconf/20203403010

7. Munteanu, F., Ionescu A., Analyzing the Nonlinear Dynamics of a Cubic Modified Chua's Circuit System, Proc. of 2021 International Conference on Applied and Theoretical Electricity (ICATE), May 27-29, 2021, University of Craiova, Romania, Editor IEEE, pp. 1-6, DOI: 10.1109/ICATE49685.2021.9465025

8. Musafirov, E., Grin, A., Pranevich, A., Munteanu, F., Sterbeti, C., 3D Quadratic ODE systems with an infinite number of limit cycles, ITM Web of Conferences 49, pp. 02006 (6 pages), 2022, Proc. of Int. Conf. Appl. Math. Num. Meth.-Fourth Ed. (ICAMNM 2022). https://doi.org/10.1051/itmconf/20224902006

BDI Journals:

1. Munteanu F., Dynamical Systems on First and Second Order Hamilton Spaces,

Proc. of the Fifth International Workshop on Differential Geometry and Its Applications, Timisoara, 18-22 septembrie 2001, Universitatea de Vest Timisoara, 2001, An. Univ. de Vest Timisoara, vol. XXXIX, 2001, ser. Mat.-Inf., fasc. sp Matematica, pp. 313-323, ISSN 1224-970X

2. Munteanu F., Conservation Laws for Dynamical Hamiltonian Systems on Hamilton Spaces of Order k>1, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, Ser. Mathematics-Physics, tom 47(61), fasc. 1, 2002, pp. 53-58, ISSN 1224-6069

3. Popescu L, Munteanu F., The Variational Problem in Singular Rheonomic Lagrange Spaces, Analele Univ. de Vest Timisoara, Ser. Matematica-Informatica, vol. XL, fascicula 1, 2002, pp. 111-122, ISSN 1224-970X

4. Munteanu F., Dynamical Hamiltonian Systems on Hamilton Spaces $H^{(k)n}$, Libertas Mathematica, vol. XXIV, 2004, Arlington, Texas, USA, pp. 103-110, ISSN 0278-5307

5. Munteanu F., Second Order Partial Differential Equations (SOPDE's) and Nonlinear Connections on the Tangent Bundle of k^1–Velocities of a Manifold, Differential Geometry - Dynamical Systems Journal, vol. 8, 2006, pp. 166-180, ISSN 1454-511X

6. Munteanu F , Symmetries and conservation in k-symplectic geometry, BSGP 20/2013, pp. 16-35, ISSN 1843-2654

7. Militaru R., Munteanu F., Symmetries and Conservation Laws for Biodynamical Systems, Int. J. of Math. Models and Methods in Applied Sciences, Issue 12, Volume 7, 2013 , pp. 965-972

8. Militaru R., Munteanu F., The Hamiltonian Dynamical System Associated to the Isotropic Harmonic Oscillator-A Numerical Study of Conservation Laws, Int. J. of Math. Models and Methods in Applied Sciences, Issue 12, Volume 7, 2013 , pp. 993-1004

9. Munteanu F., Geometric methods for the study of dynamical systems. Symmetries and conservation laws, Physics AUC , vol. 23, 42-54 (2013)

10. F. Munteanu, Geometric methods for the study of symmetries and conservation laws for presymplectic systems, BSGP vol. 21, 2014, pp. 96-107, ISSN 1843-2654.

11. Munteanu F., Militaru R., Geometrical methods and numerical computations for the study of mathematical models of the multi-species interactions, BSGP vol. 22, 2015, pp. 51-60, ISSN 1843-2654.

12.. Ionescu, A., Militaru, R., Munteanu, F., Geometrical Methods and Numerical Computations for Prey-Predator Systems, British Journal of Mathematics & Computer Science, 2015 10(5): 1-15.

13. Ionescu, A., Munteanu, F., On the Feedback Linearization for the 2D Prey-Predator Dynamical Systems, Bull. St. Univ. Politehnica Timisoara, ser. Math-Phys, vol. 60 (74), no. 2, 2015, pp. 17-25,
ISSN 1224-6069

14. Munteanu, F., About k-Semisprays and Nonlinear Connections in k-Tangent Bundle Geometry, Bull. St. Univ. Politehnica Timisoara, ser. Math-Phys, vol. 61 (75), no.1, 2016, pp. 16-21, ISSN 1224-6069

15. Munteanu F., Militaru R., A numerical study of the Hamilton-Poisson structures of the SIR-model of epidemics evolution, Applied Sciences (APPS) vol. 18, 2016, pp. 74-83, ISSN 1454-5101.

16. Ionescu, A., Lefebvre, M., Munteanu, F., Optimal control of a stochastic version of the Lotka-Volterra model, General Mathematics, vol. 24, no. 1-2 (2016), pp. 3-10 , 2017, ISSN 1221-5023

17. Ionescu, A., Lefebvre, M., Munteanu, F., Feedback linearization and optimal control of the Kermack-McKendrick model for the spread of epidemics, Advances in Analysis, vol. 2, no. 3, pp. 157-166, 2017, ISSN: 2518-3729, DOI: https://dx.doi.org/10.22606/aan.2017.23003

18. Ionescu, A., Munteanu, F., The feedback linearization for the 2D Kermack-McKendrick model of evolution epidemics, Differential Geometry–Dynamical Systems, vol. 19, no. 1, pp. 56-63, 2017, ISSN 1454-511X

19. Pranevich, A., Grin, A., Musafirov, E., Munteanu, F., Sterbeti, C., Conditional Partial Integrals of Polynomial Hamiltonian Systems, International Workshop on the Qualitative Theory of Differential Equations QUALITDE – 2021, Dedicated to the 130th birthday anniversary of Academician N. Muskhelishvili, December 18 – 20, 2021, Tbilisi, Georgia, pp. 163-167.
http://rmi.tsu.ge/eng/QUALITDE-2021/Pranevich_et_al_workshop_2021.pdf

20. Pranevich, A., Grin, A., Musafirov, E., Munteanu, F., Sterbeti, C. Non-

Autonomous First Integrals of Autonomous Polynomial Hamiltonian Systems, Proc. of International Workshop QUALITDE – 2022, December 17 – 19, 2022, Tbilisi State University Press, Georgia, 2022, E ISSN 1512-3391, pp. 174-178. https://rmi.tsu.ge/eng/QUALITDE-2022/Pranevich_Grin_Musafirov_Munteanu_Sterbeti_workshop_2022.pdf

Alte articole relevante:

1. Munteanu F., Estimation superieure de la dimension de Hausdorff de l'attracteur associe aux problemes d'evolution, Analele Universitatii "Dunarea de Jos" din Galati, seria Matematica, Fizica, Mecanica Teoretica, fascicula II, supliment la tomul XVI (XXI), 1998, vol. I, Matematica, pag. 137-153, ISSN 1221-4531
2. Mustafa O., Astefanei I., Munteanu D., Munteanu F., The Asymptotic Behavior of Positive Solutions for a Class of Nonlinear Differential Inequations of Second Order", Analele Universitatii din Craiova, Seria Mecanica, nr.1/1999, pp. 30-34, ISSN 1223-5296
3. Popescu L., Munteanu F., Slesar V., Sterbeti C., On Gauge Transfomation in Relative Tangent Spaces and Nonlinear Gauge Connection, Studii si Cercetari Stiintifice, Universitatea Bacau, Seria Matematica, nr.10/2000, pp. 223-232, ISSN 1224-2519
4. Mustafa O., Munteanu F., The Almost Presumable Maximality of Some Topological Lemma, S. N. Journal, vol. 11, no. 1-2-3, USA, 2000, pp. 192-195
5. Seleacu V., Munteanu F., Approximations for Some Characteristics of a Certain Galton-Watson Multiplying Process, S. N. Journal, vol. 12, USA, 2001, pp. 180-191
6. Munteanu F., A Study on the Dynamical Systems in the Lagrangian and Hamiltonian Formalism, Proc. Conferintei Anuale Nationale a S.S.M.R., Brasov, 24-26 mai 2001, Universitatea "Transilvania" Brasov, 2001, vol. I, pp.169-178, ISBN 973-635-044-4, 973-635-045-2 vol. I
7. Munteanu F., Dynamical Hamiltonian Systems on Hamilton Spaces of Higher Order, Proc. of International Conference on Non-Euclidian Geometry in Modern Physics, Boyai-Gauss-Lobachevsky 3, July 3-6, 2002, Tg. Mures, Romania, edited by I. Lovas, EP Systema Debrecen, Hungary, 2003, pp. 11-17, ISBN 963 206 213 2
8. Militaru R., Munteanu F., A Numerical Study of Conservation Laws of the Hamiltonian Dynamical Systems Associated to the Isotropic Harmonic Oscillator, Proc. 13th Int. Conf. Electric Power Systems, High Voltages, Electric Machines (POWER '13), Chania, Crete Island, Greece, August 27-29,2013 , WSEAS Press 2013, pp. 170-179.
9. Militaru R., Munteanu F., Geometric Methods for the Study of Biodynamical Systems. Symmetries and Conservation Laws, Proc. 9th Int. Conf. Cellular and Molecular Biology, Biophysics and Bioengineering (BIO '13) Chania, Crete Island, Greece, August 27-29, 2013, WSEAS Press 2013, pp. 54-61.
10. Militaru, R., Munteanu, F., A Geometrical and Numerical Study of the Main Sizes of the Lotka-Volterra Models, Ann. Univ. Craiova, Ser. Electrical Engineering, vol. 38, no. 1, pp.18-27, 2014, Ed. Universitaria Craiova, ISSN 1842-4805
11. Ionescu, A., Munteanu, F., Analysis of the Phaseportrait for the Lü Dynamical System in a Particular Case, Ann. Univ. Craiova, Ser. Electrical Engineering, vol. 42, no. 2, pp.170-175, 2018, Ed. Universitaria Craiova, ISSN 1842-4805

Preprint-uri:

1. Munteanu, F., Symmetries, psudo-symmetries and conservation laws in Lagrangian and Hamiltonian k-symplectic formalisms, 2014, https://arxiv.org/abs/1410.4392
2. Munteanu, F., On the k-Semispray of Nonlinear Connections in k-Tangent Bundle Geometry, 2016, https://arxiv.org/abs/1601.00750
3. Moza, G., Lazureanu,C., Munteanu, F., Sterbeti, C., Florea, A., Bifurcation diagrams in a class of Kolmogorov systems, 2020, https://arxiv.org/abs/2403.14211
4. Moza, G., Lazureanu,C., Munteanu, F., Sterbeti, C., Florea, A., Analysis of a class of Kolmogorov systems, 2021, https://arxiv.org/abs/2403.13364
5. Munteanu, F., On the Jacobi Stability of Two SIR Epidemic Patterns With Demography, 2023, https://www.preprints.org/manuscript/202304.1139/v1
6. Munteanu, F., A Study of the Jacobi Stability of the Rosenzweig–MacArthur Predator–prey System by the KCC Geometric Theory, 2022,

https://www.preprints.org/manuscript/202208.0129/v1

7. Munteanu, F., A 4-Dimensional Mathematical Model for Interaction between the Human Immune System and a Virus, 2022, https://www.preprints.org/manuscript/202207.0282/v1
8. Munteanu, F., A Comparative Study of Three Mathematical Models for the Interaction between the Human Immune System and a Virus, 2022, https://www.preprints.org/manuscript/202207.0291/v1

Participări cu comunicări la conferinţe ştiinţifice:

1. “Estimation superieure de la dimension de Hausdorff de l'attracteur associe aux problemes d'evolution”, Sesiunea Stiintifica Jubiliara "50 de ani de invatamant superior la Galati", Galati, 23-24 octombrie 1998
2. “Dimensiunea Hausdorff a atractorului asociat unei probleme de tip parabolic cvasiliniara“, Conferinta Anuala Nationala a. S.S.M.R., Craiova, 26-27 mai 1999
3. “On Gauge Transfomation in the Relative Tangent Spaces and Nonlinear Gauge Connection”, Conferinta Nationala de Geometrie Finsler, Lagrange si Aplicatii, Bacau, 17-21 februarie 2000
4. “A Study on the Dynamical Systems in the Lagrangian and Hamiltonian Formalism”, Conferinta Anuala Nationala a S.S.M.R., Brasov, 24-26 mai 2001
5. “On the Semispray of Nonlinear Connections in Rheonomic Lagrange Geometry”, International Conference of Finsler and Lagrange Geometry, Iasi, 26-31 august 2001
6. “Dynamical Systems on Hamilton Spaces of First and Second Order”, The Fifth International Workshop on Differential Geometry and Its Applications, Timisoara, 18-22 septembrie 2001
7. “Conservation Laws for Dynamical Hamiltonian Systems on Hamilton Spaces of Order k>1”, Al IX-lea Simpozion de Matematici si aplicatii, Timisoara, 1-4 noiembrie 2001
8. “Dynamical Hamiltonian Systems on Hamilton Spaces of Higher Order”, The Third International Conference Boyai-Gauss-Lobachevsky, Tg. Mures, 3-6 iulie 2002
9. “Dynamical Hamiltonian Systems on Hamilton Spaces H (k)n”, International Conference on Differential Geometry: Lagrange and Hamilton Spaces. Homage to Acad. Radu Miron at his 75 th Anniversary, Iasi, 26-30 august 2002
10. “Momentum map and reduction. Generalization to the polysymplectic case”, Seminarul National de Geometrii Finsler-Lagrange-Hamilton si Aplicatii, Brasov, 23-25 septembrie 2004
11. “SOPDE’s and Nonlinear Connections on the Tangent Bundle of k1–Velocities”, Quantum Models on Noncommutative and Deformed Spaces, SEENETMTP WORKSHOP QM2005, Nis, Serbia&Montenegro, November 3-7, 2005
12. “Symmetries and conservation laws in higher order tangent bundles”, The Seventh International Conference: Symmetry in Nonlinear Mathematical Physics, Kiev, Ukraine, June 24-30, 2007
13. “About symmetries and conservation laws in Lagrangian and Hamiltonian ksymplectic formalism”, International Conference on Differential Geometry: Lagrange and Hamilton Spaces. Dedicated to Acad. Prof. Dr. Radu Miron at his 80th Anniversary, Iasi, September 3-8, 2007
14. “Symmetries and conservation laws in higher order geometry”, The 6th International Conference "Differential Geometry and Dynamical Systems" DGDS-2012, August 29 – September 2, 2012, Mangalia, Romania
15. “A Numerical Study of Conservation Laws of the Hamiltonian Dynamical Systems Associated to the Isotropic Harmonic Oscillator”, The 13th Int. Conf. Electric Power Systems, High Voltages, Electric Machines (POWER ’13), Chania, Crete Island, Greece, August 27-29, 2013
16. “Geometric Methods for the Study of Biodynamical Systems. Symmetries and Conservation Laws”, The 9th Int. Conf. Cellular and Molecular Biology, Biophysics and Bioengineering (BIO ’13) Chania, Crete Island, Greece, August 27-29, 2013
17. “Geometric methods for the study of dynamical systems. Symmetries and conservation laws”, The 7th International Conference "Differential Geometry and Dynamical Systems " DGDS-2013, October 10 – 13, 2013, Universitatea Politehnica, Bucuresti, Romania
18. “Geometrical Methods and Numerical Computations for Prey-Predator Lotka-Volterra systems”, The International Congress in Honour of Professor Ravi Agarwal, Uludag University of Bursa, 23-26th June, 2014, Bursa, Turkey (work jointly with

Adela Ionescu and Romulus Militaru)

19. “Geometrical Methods and Numerical Computations for the Study of Mathematical Models of the Multi-Species Interactions”, The 8th International Conference ”Differential Geometry - Dynamical Systems” DGDS - 2014, September 1– 4, 2014, Mangalia, Romania (work jointly with Romulus Militaru)

20. “Computational Analysis of Conservation Laws for Mathematical Models of the Multi-Species Interactions”, The Joint Meeting Quantum Field Theory and Nonlinear Dynamics, Workshop on “Nonlinear dynamics” (ND), September 26-28 , 2014, Sinaia, Romania (work jointly with Romulus Militaru)

21. “Computational Analysis of Conservation Laws for Prey-Predator Lotka-Volterra Systems”, ICATE 2014 - International Conference on Applied and Theoretical Electricity, October 23-25, 2014, University of Craiova, Romania (work jointly with Romulus Militaru)

22. “On the Feedback Linearization for the Prey-Predator Dynamical Systems”, The 23nd Conference on Applied and Industrial Mathematics (CAIM 2015), September 17-20, 2015, "Stefan cel Mare" University of Suceava, Romania (work jointly with Adela Ionescu)

23. “About the Hamilton-Poisson structures of the Kermack-McKendrick SIR-model”, The 9th International Conference "Differential Geometry and Dynamical Systems " DGDS-2015, October 8 – 11, 2015, Universitatea “Politehnica” din Bucuresti, Romania (work jointly with Romulus Militaru)

24. “A computational analysis of the Hamilton-Poisson structures of the Kermack-McKendrick SIR model”, The 14th International Conference on Mathematics and its Applications - ICMA 2015, November 5 - 7, 2015, Politehnica University of Timisoara, Romania (work jointly with Romulus Militaru, Adela Ionescu and Catalin Sterbeti)

25. “Linearization and geometrical methods for prey-predator dynamical systems”, The 14th International Conference on Mathematics and its Applications - ICMA 2015, November 5 - 7, 2015, Politehnica University of Timisoara, Romania (work jointly with Adela Ionescu)

26. “About a new kind of conservation laws in k-symplectic formalism”, ICAMNM 2016, April 14-16, 2016 University of Craiova, Romania

27. “Study on linearizing the 3D Kermack-McKendrick model of epidemics evolution”, ICAMNM 2016, April 14-16, 2016 University of Craiova, Romania (work jointly with Adela Ionescu)

28. “About symmetries, pseudosymmetries and conservation laws in k-cosymplectic formalism”, ICAMNM 2016, April 14-16, 2016 University of Craiova, Romania

29. “Geometrical Methods and Numerical Computations for Predator-Prey Systems”, ICAMNM 2016, April 14-16, 2016, University of Craiova, Romania (work jointly with Romulus Militaru)

30. “About symmetries and conservation laws in k-symplectic geometry” CAIM, September 15-18, 2016, University of Craiova, Romania

31. “A geometric and computational analysis of Chua's circuit system”, International Conference on Applied and Theoretical Electricity (ICATE), October 6-8, 2016, University of Craiova, Romania (work jointly with Adela Ionescu)

32. “Symmetries, pseudosymmetries and conservation laws in Lagrangian and Hamiltonian k-symplectic formalisms”, Workshop on Applied Mathematics: Methods and Modeling, May 7-8, 2017, University of Craiova, Romania

33. “About Symmetries, Pseudosymmetries and Conservation Laws in k-Symplectic and k-Cosymplectic Geometries”, The 25-th Conference on Applied and Industrial Mathematics - CAIM 2017, September 14-19, 2017, University of Iaşi, Romania

34. “A geometric and computational analysis of the mathematical models for interactions”, Workshop on Pure and Applied Analysis, October 21, 2017, University of Craiova, Romania

35. “A Note on the Behavior of the Lü Dynamical System in a Slightly Simplified Version”, International Conference on Applied and Theoretical Electricity–ICATE 2018, October 4-6, 2018, University of Craiova, Romania (work jointly with Adela Ionescu)

36. “On feedback controlling of a smooth version of Chua dynamical system”, International Conference on Applied and Theoretical Electricity–ICATE 2018, October 4-6, 2018, University of Craiova, Romania (work jointly with Adela Ionescu)

37. “Linearization and control for the Lu dynamical system in a simplified version”, ICAMNM 2018, October 19-20, 2018, University of Craiova, Romania (work jointly

with Adela Ionescu)

38. “About Symmetries and Conservation Laws for Autonomous Hamiltonian and Lagrangian Systems”, ICAMNM 2018, October 19-20, 2018, University of Craiova, Romania

39. “A Study of a Three-Dimensional Competitive Lotka--Volterra System”, ICAMNM 2020, October 29-31, 2020, University of Craiova, Romania

40. ”Analyzing the Nonlinear Dynamics of a Cubic Modified Chua’s Circuit System”, 2021 International Conference on Applied and Theoretical Electricity-ICATE 2021, May 27-29, 2021, University of Craiova, Romania (work jointly with Adela Ionescu)

41. “On the computational approach of the Chua dynamical system in a modified version”, International Scientific Conference Mathematics & IT: Research and Education - MITRE-2021, July 1-3, 2021, Universitatea de Stat din Moldova, Chisinau, Republica Moldova (work jointly with Adela Ionescu)

42. “About linear and Jacobi stability of two-dimensional competitive Lotka-Volterra systems”, International Scientific Conference Mathematics & IT: Research and Education - MITRE-2021, July 1-3, 2021, Universitatea de Stat din Moldova, Chisinau, Republica Moldova (work jointly with Adela Ionescu)

43. “Analyzing the Jacobi stability of Lu's circuit system”, The 28th Conference on Applied and Industrial Mathematics - CAIM 2021, September 17-18, 2021, ROMAI Society - Bucuresti, Romania (work jointly with Adela Ionescu)

44. “On the analysis of the controlled Chua dynamical system in a cubic modified version”, The 28th Conference on Applied and Industrial Mathematics - CAIM 2021, September 17-18, 2021, ROMAI Society - Bucuresti, Romania (work jointly with Adela Ionescu)

45. “Conditional Partial Integrals of Polynomial Hamiltonian Systems”, International Workshop on the Qualitative Theory of Differential Equations QUALITDE – 2021, Dedicated to the 130th birthday anniversary of Academician N. Muskhelishvili, December 18-20, 2021,Tbilisi State University, Tbilisi, Georgia (work jointly with Andrei Pranevich, Alexander Grin, Eduard Musafirov and Catalin Sterbeti)

46. “About the Jacobi stability of the Rosenzweig-MacArthur prey-predator system”, International Conference on Applied Mathematics and Numerical Methods (ICAMNM) - 2022 - Fourth Edition, June 29 - July 2, 2022, University of Craiova, Romania

47. “3D Quadratic ODE systems with an infinite number of limit cycles”, International Conference on Applied Mathematics and Numerical Methods (ICAMNM) - 2022 - Fourth Edition, June 29 - July 2, 2022, University of Craiova, Romania (work jointly with Andrei Pranevich, Alexander Grin, Eduard Musafirov and Catalin Sterbeti)

48. ”A comparative study of three deterministic models for the interaction between the immune system and a pathogenic agent”, Conference on New Trends on Bifurcations in Ordinary Differential Equations, September 6-9, 2022, Centre de Recherca Matematica (CRM), Universitat Autònoma de Barcelona, Spain

49. “Non-Autonomous First Integrals of Autonomous Polynomial Hamiltonian Systems”, International Workshop on the Qualitative Theory of Differential Equations QUALITDE-2022, December 17-19, 2022,Tbilisi State University, Tbilisi, Georgia (work jointly with Andrei Pranevich, Alexander Grin, Eduard Musafirov and Catalin Sterbeti)

50. “On the Jacobi stability of a modified SIR epidemic pattern with demography”, Fifth Romanian Itinerant Seminar on Mathematical Analysis and its Applications (RISMAA-2023), May 26-28, 2023, University of Craiova, Romania

51. “A study of the Sprott BC system through Jacobi stability”, International Conference on Applied Mathematics and Numerical Methods (ICAMNM) - 2024 - Fifth Edition, October 25-26, 2024 (work jointly with Nasrin Sadri)

52. “On the Jacobi Stability of a 3D Chaotic System”,The 32nd International Conference on Applied and Industrial Mathematics - CAIM 2025, September 18-21, 2025, ROMAI Society-National University of Science and Technology POLITEHNICA, Bucharest, Romania

03.12.2025 Conf. univ. dr. Munteanu Florian