

List of papers – Marian Ioan MUNTEANU – January 2019

Published in Journals

2019

[AMN19] O. Ates, M.I. Munteanu, A.I. Nistor: *Dynamics on S^3 and the Hopf fibration*, Applied Mathematics and Computation, 347 (2019) 429 - 441.

2018

[AM18] O. Ates, M.I. Munteanu: *J-trajectories in $R \times S^3$* , Journal of Geometry and Physics, 133 (2018), 141-152.

[IM18a] J. Inoguchi, M.I. Munteanu: *Magnetic vector fields: new examples*, Publications de l'Institut Mathematique (Beograd), 103 (117) (2018), 91-102.

[CM18] G. Calvaruso, M.I. Munteanu: *Hopf magnetic curves in the anti-de Sitter space H^3_1* , J. Nonlinear Math. Physics, 25 (2018) 3, 462-484.

[IM18b] J. Inoguchi, M.I. Munteanu: *Magnetic trajectories on tangent sphere bundles II*, [Journal of Mathematical Analysis and Applications](#), 466 (2018) 1570-1581.

2017

[DMV17] M. Djoric, M.I. Munteanu, L. Vrancken: *Four-dimensional contact CR-submanifolds in $S^7(1)$* , Mathematische Nachrichten, 290 (2017) 16, 2585-2596.

[IM17] J. Inoguchi, M.I. Munteanu: *Periodic magnetic curves in Berger spheres*, Tohoku Mathematical Journal, 69 (2017) 1, 113-128.

[MN17] M.I. Munteanu, A.I. Nistor: *On some closed magnetic curves on a 3-torus*, Math. Phys. Analysis Geometry 20 (2017) 2, art. 8.

2016

[MM16] M. Moruz, M.I. Munteanu: *Minimal translation hypersurfaces in E^4* , Journal of Mathematical Analysis and Applications, 439 (2016), 798 - 812.

[DRIMN16] S.L. Druta-Romaniuc, J. Inoguchi, M.I. Munteanu, A.I. Nistor: *Magnetic curves in cosymplectic manifolds*, Reports on Math. Physics, 78 (2016) 1, 33 - 48.

[MPRH16] M.I. Munteanu, O. Palmas, G. Ruiz-Hernandez: *Translation hypersurfaces in Euclidean spaces*, Mediterranean J. Mathematics, 13 (2016) 5, 2659-2676.

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- [DRIMN15] S.L. Druta-Romaniuc, J. Inoguchi, M.I. Munteanu, A.I. Nistor: *Magnetic curves in Sasakian manifolds*, J. Nonlinear Math. Physics, 22 (2015) 3, 428-447.
- [JM15] M. Jleli, M.I. Munteanu: *Magnetic curves on flat para-Kaehler manifolds*, Turkish Journal of Mathematics, 39 (2015) 6, 963 - 969.
- [CMP15] G. Calvaruso, M.I. Munteanu, A. Peronne: *Killing magnetic curves on three dimensional almost paracontact manifolds*, Journal of Mathematical Analysis and Applications, 426 (2015) 1, 423-439.
- [JMN15] M. Jleli, M.I. Munteanu, A.I. Nistor: *Magnetic trajectories in an almost contact metric manifold R^{2N+1}* , Results in Mathematics, 67 (2015) 1-2, 125-134.
- [BM15] M. Babaarslan, M.I. Munteanu: *Time-like loxodromes on rotational surfaces in Minkowski 3-spaces*, An.St. ale Univ. "Al.I.Cuza" din Iasi, 61 (2015) 2, 471-484.

2014

- [IM14] J. Inoguchi, M.I. Munteanu: *Magnetic maps*, International Journal of Geometric Methods in Modern Physics, 11 (2014) 6, art. 1450058.
- [MN14] M.I. Munteanu, A.I. Nistor: *A note on magnetic curves on S^{2n+1}* , Comptes Rendus Mathematiques, 352 (2014) 5, 447 - 449.
- [Mun14] M.I. Munteanu: *The Landau Hall problem on canal surfaces*, Journal of Mathematical Analysis and Applications, 414 (2014) 2, 725 - 733.
- [FM14] Y. Fu, M.I. Munteanu: *Generalized constant ratio surfaces in E^3* , Bull. Braz. Math. Soc., 45 (2014) 1, 73 - 90.
- [LM14] R. Lopez, M.I. Munteanu: *Invariant surfaces in homogeneous space Sol with constant curvature*, Mathematische Nachrichten, 287 (2014) 8-9, 1013 - 1024.
- [MV14] M.I. Munteanu, L. Vrancken: *Minimal contact CR submanifolds in S^{2n+1} satisfying the $\delta(2)$ -Chen's equality*, Journal of Geometry and Physics, 75 (2014), 92 - 97.

2013

- [Mun13] M.I. Munteanu: *Magnetic curves in the Euclidean space: one example, several approaches*, Publications de l'Institut Mathematique (Beograd), 94 (108) (2013) 2, 141-150.
- [CM13] B.Y. Chen, M.I. Munteanu: *Biharmonic ideal hypersurfaces in Euclidean spaces*, Differential Geometry and Its Applications 31 (2013) 1, 1 - 16.

[CHM13] M. Crasmareanu, C.E. Hretcanu, M.I. Munteanu: *Golden and Product shaped hypersurfaces in real space forms*, International Journal of Geometric Methods in Modern Physics 10 (2013) 4, art. 1320006, (9pp).

[DRM13] S.L. Druta-Romaniuc, M.I. Munteanu: *Killing magnetic curves in a Minkowski space*, Nonlinear Analysis: Real World Applications 14 (2013) 1, 383 - 396.

2012

[CCM12] C. Calin, M. Crasmareanu, M.I. Munteanu: *Slant curves in 3-dimensional f-Kenmotsu manifolds*, Journal of Mathematical Analysis and Applications 394 (2012) 1, 400-407.

[ILM12] J. Inoguchi, R. Lopez, M.I. Munteanu: *Minimal translation surfaces in the Heisenberg group Nil_3* , Geometriae Dedicata 161 (2012), 221 - 231.

[ACM12] P. Alegre, B.-Y. Chen, M.I. Munteanu: *Riemannian submersions, δ -invariants and Optimal inequality*, Annals of Global Analysis and Geometry 42 (2012) 3, 317 - 331.

[CCMS12] C. Calin, M. Crasmareanu, M.I. Munteanu, V. Saltarelli: *Semi-invariant ξ_1 -submanifolds of generalized quasi-Sasakian manifold*, Taiwanese Journal of Mathematics 16 (2012) 6, 2053 - 2062.

[MN12a] M.I. Munteanu, A.I. Nistor: *The classification of Killing magnetic curves in $S^2 \times \mathbb{R}$* , Journal of Geometry and Physics, 62 (2012) 2, 170 - 182.

[CM12] B.Y. Chen, M.I. Munteanu: *Geometry of PR-warped products in para-Kaehler manifolds*, Taiwanese Journal of Mathematics 16 (2012) 4, 1293 - 1327.

[MN12b] M.I. Munteanu, A.I. Nistor: *Surfaces in E^3 making constant angle with Killing vector fields*, International Journal of Mathematics 23 (2012) 6, art. 1250023 (16pp).

[LM12] R. Lopez, M.I. Munteanu: *Minimal translation surfaces in Sol_3* , Journal of the Mathematical Society of Japan 64 (2012) 3, 985 - 1003.

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[DRM11] S.L. Druta-Romaniuc, M.I. Munteanu: *Magnetic curves corresponding to Killing magnetic fields in E^3* , Journal of Mathematical Physics 52 (2011) 11, art. 113506 (11pp).

[LM11a] R. Lopez, M.I. Munteanu: *On the geometry of constant angle surfaces in Sol_3* , Kyushu Journal of Mathematics, 65 (2011) 2, 237 - 249.

[LM11b] R. Lopez, M.I. Munteanu: *Surfaces with constant mean curvature in Sol geometry*, Differential Geometry and Its Applications 29 (2011), S238 -S245.

[MN11a] M.I. Munteanu, A.I. Nistor: *On the Geometry of the Second Fundamental Form of Translation Surfaces in E^3* , Houston Journal of Mathematics, 37 (2011) 4, 1087-1102.

[DMVV11] F. Dillen, M.I. Munteanu, J. van der Veken, L. Vrancken: *Classification of constant angle surfaces in a warped product*, Balkan Journal of Geometry and Its Applications, 16 (2011) 2, 35 - 47.

[MN11b] M.I. Munteanu, A.I. Nistor: *Complete classification of surfaces with a canonical principal direction in the Euclidean space E^3* , Central European Journal of Mathematics, 9 (2011) 2, 378 - 389.

[MN11c] M.I. Munteanu, A.I. Nistor: *Minimal and flat surfaces in $H^2 \times R$ with canonical coordinates*, Contemporary Mathematics, vol. 542 (2011), 267 - 271.

[DMN11] F. Dillen, M.I. Munteanu, A.I. Nistor: *Canonical coordinates and principal directions for surfaces in $H^2 \times R$* , Taiwanese Journal of Mathematics, 15 (2011) 5, 2265-2289.

[FMV11] J. Fastenakels, M.I. Munteanu, J. van der Veken: *Constant angle surfaces in the Heisenberg group*, Acta Mathematica Sinica (English Series), 27 (2011) 4, 747 - 756.

[LM11c] R. Lopez, M.I. Munteanu: *Constant angle surfaces in Minkowski space*, Bulletin of the Belgian Math. Society - Simon Stevin, 18 (2011) 2, 271 - 286.

2010

[Mun10] M.I. Munteanu: *From Golden Spirals to Constant Slope Surfaces*, Journal of Mathematical Physics 51 (2010) 7, art. 073507.

[MN10] M.I. Munteanu, A.I. Nistor: *New results on the geometry of translation surfaces*, Journal of Geometry and Symmetry in Physics (JGSP) 18 (2010) 49 - 62.

[MM10] R. Mocanu, M.I. Munteanu: *Gray Curvature Identities for Almost Contact Metric Manifolds*, Journal of the Korean Mathematical Society 47 (2010) 3, 505-521.

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[MN09] M.I. Munteanu, A.I. Nistor: *A new approach on constant angle surfaces in E^3* , Turkish Journal of Mathematics 33 (2009) 2, 169-178.

[DM09] F. Dillen, M.I. Munteanu: *Constant angle surfaces in $H^2 \times R$* , Bull. Braz. Math. Soc. 40 (2009) 1, 85-97.

2008

[Mun08a] M.I. Munteanu: *Minimal submanifolds in R^4 with a g.c.K. structure*, Czechoslovak Mathematical Journal 58 (2008) 1, 61-78.

[Mun08b] M.I. Munteanu: *Some aspects on the geometry of the tangent bundles and tangent sphere bundles of a Riemannian manifold*, Mediterranean J. Mathematics 5 (2008) 1, 43-60.

2007

[Mun07a] M.I. Munteanu: *A Note on Doubly Warped Product Contact CR-Submanifolds in trans-Sasakian Manifolds*, Acta Mathematica Hungarica 116 (1-2) (2007), 121-126.

[Mun07b] M.I. Munteanu: *Doubly Warped Product CR-Submanifolds in Locally Conformal Kaehler Manifolds*, Monatshefte fur Mathematik 150 (2007) 4, 333-342.

2006

[Mun06] M.I. Munteanu: *New aspects on CR-structures of codimension 2 on Hypersurfaces of Sasakian Manifolds*, Archivum Mathematicum (Brno), 42 (2006) 1, 69-84.

2005

[Mun05] M.I. Munteanu: *Warped product contact CR submanifolds in Sasakian space forms*, Publicationes Mathematicae Debrecen 66 (2005), 1-2, 75-120.

Some other old papers:

[Mun03] M.I. Munteanu: *Harmonicity and gauge transformation in dimension 3*, J. of Geometry 77, 2003, 140-151.

[MM02] P. Matzeu, M.I. Munteanu: *Vector Cross Products and Almost Contact Structure*, Rendiconti di Matematica , Serie VII, vol. 22, Roma, 2002, 359-376.

[Mun00a] M.I. Munteanu: *Some results on CR-manifolds on 3-dimensional manifolds*, Rend. Sem. Fac. Sci. Univ. Cagliari, vol.70, 2, 2000, 29-42.

[MM00] P. Matzeu, M.I. Munteanu: *Classification of almost contact structures associated with a pseudoconvex CR-structure*, Riv. Mat. Univ. Parma , (6) 3, 2000, 127-142.

[Mun00b] M.I. Munteanu: *New CR-structures on the Unit Tangent Bundle*, Ann. Univ. Timisoara , vol.38, Fasc. 1, 2000, Seria Mat. Inf., 99-110.

[Mun00c] M.I. Munteanu: *CR-structures on the Hypersurfaces of the Tangent Bundle*, Italian J.of Pure and Applied Mathematics , N.7, 2000, 113-124.

[Mun98a] M.I. Munteanu: *Products of Almost Contact Manifolds*, Buletinul Institutului Politehnic din Iasi, Tomul XLIV (XLVIII), Fasc. 3-4, 1998, 1-7.

[Mun98b] M.I. Munteanu: *CR-structures on the Unit Cotangent Bundle*, An.St. ale Univ. 'Al.I.Cuza' din Iasi, Tomul XLIV, s.I.a, Matematica 1998, f1, 125-136.

[Mun98c] M.I. Munteanu: *CR-structures on the Unit Tangent Bundle and Bochner Type Tensor*, Ann.Univ. Bucuresti, Matematica, An XLVII (1998), nr 1, 55-64.

Published in Proceedings

[MN13p] M.I. Munteanu, A.I. Nistor: *Magnetic trajectories in a non-flat R^5 have order 5*, Proceedings of the conference *Pure and Applied Differential Geometry*, PADGE 2012, Eds. J. Van der Veken, I. Van de Woestyne, L. Verstraelen, L. Vrancken, Shaker Verlag Aachen 2013, 224-231. ISBN 978-3-8440-2363-3.

[Mun11p] M.I. Munteanu: *A survey on constant angle surfaces in homogeneous 3-dimensional spaces*, Proceedings of the Workshop on differential geometry and its applications, Iasi (Romania): September 2 - 4, 2009, Eds. D. Andrica and S.Moroianu, Cluj University Press, 2011, 109 - 123, ISBN 978-973-595-235-8.

[MN09p] M.I. Munteanu, A.I. Nistor: *Polynomial Translation Weingarten Surfaces in 3-dimensional Euclidean space*, Proceedings of the 8th International Colloquium on Differential Geometry (E. Vidal Abascal centennial congress) and satellite of the 5th European Congress of Mathematics 2009, World Scientific 2009, 316-320, ISBN 978-981-4261-16-6.

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[Mun07p] M.I. Munteanu: *Old and New Structures on the Tangent Bundle*, Proceedings of the Eighth International Conference on Geometry, Integrability and Quantization, June 9-14, 2006, Varna, Bulgaria, Eds. I. M. Mladenov and M. de Leon, Sofia 2007, 264-278; ISBN 978-954-8495-37-0.

[Mun06p] M.I. Munteanu: *Cheeger Gromoll type metrics on the tangent bundle*, Proceedings of the fifth international symposium BioMathsPhys, Iasi, June 16-17, 2006, U.A.S.V.M. Ion Ionescu de la Brad, 49 (2006) 2, 257 - 268.

[Mun04p] M.I. Munteanu: *CR-structures of CR-codimension 2 on Hypersurfaces in Sasakian Manifolds*, Proceedings of the 9th Conference of Differential Geometry and Its Applications, 2004, Charles University, Prague, Czech Republic, 153-159, ISBN 80 - 86732 - 63 - 0.

[Mun97p] M.I. Munteanu: *CR-structures on the Translated Sphere Bundle*, Proceedings of the Third International Workshop on Differential Geometry and Its Applications, Sibiu-Romania, September 18-23, 1997, 277-280.

Books

M.I. Munteanu, A.I. Nistor: *Algorithms of Triangulation*, lecture notes (in Romanian), 175pp, Demiurg Publishing House, 2008, ISBN 978-973-152-059-9.

O. Constantinescu, M. Crasmareanu, M.I. Munteanu: *Elements of Higher Geometry*, (in Romanian), 154pp, Matrix Rom Publishing House, 2007, ISBN 978-973-755-288-4.

M.I. Munteanu: *2D-Geometric Algorithms with applications in CAGD*, lecture notes (in Romanian), 229pp, " Al.I.Cuza " University Publishing House, 2005, ISBN 973-703-805-0.

Papers accepted for publication

J. Inoguchi, M.I. Munteanu, A.I. Nistor: *Magnetic curves on quasi-Sasakian 3-manifolds*, Analysis and Mathematical Physics, accepted.

M.I. Munteanu, C. Ramis: *Minimal translation surfaces in the 3-dimensional Heisenberg group*, Filomat, accepted.

S. De Candia, M.I. Munteanu: *Classification of slant surfaces in $S^3 \times R$* , Advances in Geometry, accepted.

J. Inoguchi, M.I. Munteanu: *Magnetic trajectories on tangent sphere bundles*, Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie A. Matematicas, accepted.