List of publications

Dorel Fetcu

- **Research papers**
  - **Preprints**

    1. **Constant mean curvature surfaces in $\mathbb{M}^2(c) \times \mathbb{R}$ and finite total curvature** (with **M. Batista and M. P. Cavalcante**)

  - **Papers in print**

    1. **On biconservative surfaces in 3-dimensional space forms** (with **S. Nistor and C. Oniciuc**)
       – Comm. Anal. Geom., to appear.

  - **Published papers**

    1. **Biharmonic surfaces with parallel mean curvature in complex space forms** (with **A. L. Pinheiro**)
       – Kyoto J. Math. 55(4), 2015, 837–855.
    2. **A classification result for helix surfaces with parallel mean curvature in product spaces**
       – Ark. Mat. 53(2), 2015, 249–258.
    3. **Surfaces with parallel mean curvature in Sasakian space forms** (with **H. Rosenberg**)
       – Math. Ann. 362(1-2), 2015, 501–528.
    4. **CMC biconservative surfaces in $\mathbb{S}^n \times \mathbb{R}$ and $\mathbb{H}^n \times \mathbb{R}$** (with **C. Oniciuc and A. L. Pinheiro**)
       – J. Math. Anal. Appl. 425(1), 2015, 588–609.
    5. **Surfaces with parallel mean curvature in $\mathbb{C}P^n \times \mathbb{R}$ and $\mathbb{C}H^n \times \mathbb{R}$** (with **H. Rosenberg**)
       – Trans. Amer. Math. Soc. 366(1), 2014, 75–94.
    6. **On complete submanifolds with parallel mean curvature in product spaces** (with **H. Rosenberg**)
       – Rev. Mat. Iberoam. 29(4), 2013, 1283–1306.
    7. **Biharmonic submanifolds with parallel mean curvature in $\mathbb{S}^n \times \mathbb{R}$** (with **C. Oniciuc and H. Rosenberg**)
       – J. Geom. Anal. 23(4), 2013, 2158–2176.
    8. **Surfaces with parallel mean curvature in $\mathbb{S}^3 \times \mathbb{R}$ and $\mathbb{H}^3 \times \mathbb{R}$** (with **H. Rosenberg**)
       – Michigan Math. J. 61(4), 2012, 715–729.
    9. **Surfaces with parallel mean curvature vector in complex space forms**
       – J. Differential Geom. 91(2), 2012, 215–232.
    10. **Biharmonic integral $\mathcal{C}$–parallel submanifolds in 7–dimensional Sasakian space forms** (with **C. Oniciuc**)
        – Tohoku Math. J. 64(2), 2012, 195–222.

11. **A note on surfaces with parallel mean curvature** (with **H. Rosenberg**)
– C. R. Math. Acad. Sci. Paris 349(21–22), 2011, 1195–1197.

12. **A note on integral C–parallel submanifolds in $\mathbb{S}^7(c)$** (with **C. Oniciuc**)
– Rev. Un. Mat. Argentina 52(1), 2011, 33–45.

13. **Biharmonic submanifolds of $\mathbb{C}P^n$** (with **S. Montaldo, E. Loubeau, and C. Oniciuc**)
– Math. Z. 266(3), 2010, 505–531.

14. **A note on biharmonic curves in Sasakian space forms**
– Ann. Mat. Pura Appl. 189(4), 2010, 591–603.

15. **Biharmonic hypersurfaces in Sasakian space forms** (with **C. Oniciuc**)
– Differential Geom. Appl. 27(6), 2009, 713–722.

16. **Generalized harmonic maps on normal almost contact manifolds**
– Rocky Mountain J. Math. 39(5), 2009, 1497–1515.

17. **On the geometry of biharmonic submanifolds in Sasakian space forms** (with **C. Oniciuc**)
– J. Geom. Symmetry Phys. 14, 2009, 21–34.

18. **Explicit formulas for biharmonic submanifolds in Sasakian space forms** (with **C. Oniciuc**)
– Pacific J. Math. 240(1), 2009, 85–107.

19. **Biharmonic Legendre curves in Sasakian space forms**
– J. Korean Math. Soc. 45(2), 2008, 393–404.

20. **Explicit formulas for biharmonic submanifolds in non-Euclidean 3-spheres** (with **C. Oniciuc**)
– Abh. Math. Sem. Univ. Hamburg 77, 2007, 179–190.

21. **Biharmonic curves in Cartan-Vranceanu $(2n+1)$–dimensional spaces**
– Bul. Acad. Sti. Rep. Moldova. Mat. 53(1), 2007, 59–65.

22. **Harmonic maps between complex Sasakian manifolds**
– Rend. Sem. Mat. Univ. Polit. Torino 64(3), 2006, 319–329.

23. **A characterization of normal framed φ–manifolds**
– An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.) 52(1), 2006, 207–216.

24. **Quaternionic maps between a hyper–Kähler manifold and a 3–almost contact manifold**
– Novi Sad J. Math. 36(1), 2006, 21–34.

25. **Biharmonic curves in the generalized Heisenberg group**
– Beiträge Algebra Geom. 46(2), 2005, 513–521.

26. **Critical associated metrics on framed φ–manifolds**
– Libertas Math. 25, 2005, 123–130.

27. **Harmonic and φ-pluriharmonic maps between $\mathcal{C}$–manifolds**
– Italian J. Pure Appl. Math. 18, 2005, 235–250.

28. **Critical associated metrics on nearly $\mathcal{S}$–manifolds**
– Bul. Inst. Politeh. Iaşi. Mat. Mec. Teor. Fiz. 51(55)(1–2), 2005, 1–10.

29. **φ–Pseudo harmonic morphisms**
– An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.) 50(2), 2004, 327–346.

30. **Harmonic maps on framed φ–manifolds**
– An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.) 50(1), 2004, 199–217.

31. **Maps between almost Kähler manifolds and framed φ–manifolds**
– Balkan J. Geom. Appl. 9(2), 2004, 13–24.

– **Conference proceedings**

1. **Stability properties for biharmonic maps** (with **A. Balmuş and C. Oniciuc**)
   – Geometry–Exploratory Workshop on Differential Geometry and its Applications, Cluj Univ. Press, Cluj–Napoca, 2011, 1–19.
2. **Biharmonic submanifolds in Sasakian space forms** (with **C. Oniciuc**)
   – Proceedings of the Symposium on the Differential Geometry of Submanifolds, 2–7 July 2007, Valenciennes, France, L. Vrancken Ed., 2007, 85–88.
3. **Integral submanifolds in three–Sasakian manifolds whose mean curvature vector fields are eigenvectors of the Laplace operator**
   – Geometry, Integrability and Quatization IX, Proceedings of The Ninth International Conference on Geometry, Integrability and Quantization, 8–13 June 2007, Varna, I. Mladenov Ed., 2008, 210–223.
4. **Some properties of nearly $\mathcal{S}$–manifolds**
   – Sci. Ann. Univ. Agric. Sci. Vet. Med., Proceedings of the 5th Annual Symposium on Mathematics Applied in Biology and Biophysics, 16–17 June 2006, Iaşi, 49(2), 2006, 229–242.
5. **An adapted connection on a strict complex contact manifold**
   – Proceedings of the 5th Conference of Balkan Society of Geometers, 29 August–2 September 2005, Mangalia, Romania, BSG Proceedings 13, 2006, Geometry Balkan Press, Bucharest, 54–61.
6. **A class of harmonic maps between 3–cosymplectic manifolds**
   – Sci. Ann. Univ. Agric. Sci. Vet. Med., Proceedings of the 4th Annual Symposium on Mathematics Applied in Biology and Biophysics, 27–28 May 2005, Iaşi, 48(2), 2005, 303–316.
7. **Critical associated metrics on framed φ–manifolds**
   – Proceedings of the 3rd International Colloquium "Mathematics in Engineering and Numerical Physics", 7–9 October 2004, Bucharest, BSG Proceedings 12, 2005, Geometry Balkan Press, Bucharest, 137–141.
8. **Some results on the hyper–framed manifolds**
   – Sci. Ann. Univ. Agric. Sci. Vet. Med., Proceedings of the Annual Symposium on Mathematics Applied in Biology and Biophysics, 28–29 May 2004, Iaşi, 47(2), 2004, 151–163.
9. **Harmonic maps between framed φ–manifolds**
   – Sci. Ann. Univ. Agric. Sci. Vet. Med., Proceedings of the Annual Symposium on Mathematics Applied in Biology and Biophysics, 30–31 May 2003, Iaşi, 46(2), 2003, 129–146.

- **Survey paper**

  – **Harmonic and biharmonic maps at Iaşi** (with **A. Balmuş and C. Oniciuc**)
  – An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.) 56(1), 2010, 81–96.

- **Ph.D. Thesis**

  – **Properties of Harmonic Mappings and Morphisms** (in Romanian)
  – Differential Geometry – Dynamical Systems Monographs 5, Geometry Balkan Press, Bucharest, Romania, 2005, 97 pp.
  `http://www.mathem.pub.ro/dgds/mono/dgdsmono.htm`

- **Textbook**

  – **Elements of Linear Algebra, Analytic Geometry, and Differential Geometry** (in Romanian)
  – Demiurg Publishing House, Iaşi, Romania, 2009, 340 pp.

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