

CURRICULUM VITAE ET STUDIORUM

1. PERSONAL DATA

Full name: Dumitru–Cezar ONICIUC

Date and place of birth: October 21, 1972, Iasi, Romania

Citizenship: Romanian

Marital status: married

Number of children: 2

Permanent Institution and Mailing address:

Faculty of Mathematics, "Al.I. Cuza" University of Iasi, Bd. Carol I, no. 11,
Iasi 700506, Romania.

Faculty: Tel. No. +40–232–201060, Telefax +40–232–201160

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2. EDUCATIONAL BACKGROUND

1. Habilitation thesis:

Date of Completion: July 25, 2012

Place of defence: "Simion Stoilow" Institute of Mathematics of the Romanian Academy

Thesis title:

"Biharmonic submanifolds in space forms"

2. Doctoral Degree: Faculty of Mathematics, "Al.I. Cuza" University of Iasi

Date of Admission: October 1997

Date of Completion: April 13, 2002

Type of Diploma Awarded: PhD.

Thesis title:

"Tangency and Harmonicity Properties"

Supervisor: Prof.dr. V. Oproiu, "Al.I. Cuza" University of Iasi, Romania.

The thesis received the *Cum Laudae* distinction from the Ministry of Education, Romania, and it was published, in romanian, at *Geometry Balkan Press*, 2003,
<http://www.mathem.pub.ro/dgds/mono/dgdsmono.htm>

3. Master Degree: Faculty of Mathematics, "Al.I. Cuza" University of Iasi

Date of Admission: September 1996

Date of Completion: June 1997

Type of Diploma Awarded: MSc.

4. Bachelor's Degree: Faculty of Mathematics, "Al.I. Cuza" University of Iasi

Date of Admission: July 1991

Date of Completion: June 1996

Type of Diploma Awarded: BSc.

3. PROFESSIONAL EXPERIENCE

September 30, 2013–Present: Professor at the Faculty of Mathematics, "Al.I. Cuza" University of Iasi.

October 1, 2007–September 29, 2013: Associate Professor at the Faculty of Mathematics, "Al.I. Cuza" University of Iasi.

October 1, 2003–September 30, 2007: Lecturer at the Department of Geometry, Faculty of Mathematics, "Al.I. Cuza" University of Iasi.

February 21, 2000–September 30, 2003: Assistant Professor at the Department of Geometry, Faculty of Mathematics, "Al.I. Cuza" University of Iasi.

October 1, 1997–February 20, 2000: Research Assistant at the Department of Geometry, Faculty of Mathematics, "Al.I. Cuza" University of Iasi.

I taught the *Differential Geometry of Curves and Surfaces* course and the *Computational Geometry* course to the 2nd year students; the *Differentiable Manifolds* course to the 3rd year students; the *Harmonic Maps*, *Lie Groups*, *Special Topics in Riemannian Geometry* and *Fundamentals of Mathematics* courses to the MASTER students, Faculty of Mathematics.

I taught tutorial classes for the following courses: *Affine Geometry*, *Synthetic Geometry*, *Linear Algebra and Analytic Geometry*; *Differential Geometry of Curves and Surfaces*, *Computational Geometry*; *Differentiable Manifolds*; *Harmonic Maps*, *Lie Groups*, *Special Topics in Riemannian Geometry*, *Complex manifolds*, *Fundamentals of Mathematics*, Faculty of Mathematics.

4. ACADEMIC DUTIES

- 1) **September 2020–August 2024:** Member of CNATDCU-Mathematics, Romania.
- 2) **May 2020–August 2024; November 2011–March 2013:** Member of a scientific evaluation board (*Mathematics* section; *Mathematics and Informatics* section) at the National Council of Scientific Research (CNCS), Romania.
- 3) **2014–2018:** Envoy of the "Al.I. Cuza" University to ANELIS PLUS Association.
- 4) Referee for UEFISCDI, Romania.
- 5) **2025:** Member of an evaluation committee for promotion to the Full Professor position at Pennsylvania State University;
- 6) **2024:** Referee for Luxemburg National Research Fund;
- 7) **2014:** Referee for the National Science Centre, Poland.

5. ADMINISTRATIVE DUTIES

- 1) **February 2020–Present:** Member of the Council of the Faculty of Mathematics, "Al.I. Cuza" University of Iasi.
- 2) **October 2017–Present:** Member of the Council of the Doctoral School of Mathematics, "Al.I. Cuza" University of Iasi.
- 3) **February 2020–January 2024:** Member of the Academic Senate of the "Al.I. Cuza" University of Iasi.
- 4) **August 2020–July 2024:** Member of the Council of the "Al.I. Cuza" University Doctoral Studies (CSUD).
- 5) **April 2012–September 2016:** Vice-Dean at the Faculty of Mathematics, "Al.I. Cuza" University of Iasi.

6. INTERNATIONAL FELLOWSHIPS AWARDED

- 1) May 7–10, 2026, University of Münster, Germany; Invited Professor.
- 2) May 12–15, 2025, University of Lund, Sweden; Invited Professor.
- 3) November 24–December 23, 2024, University of Cagliari; Italy; Invited Professor (I delivered the course *Differential Forms and Applications*–for Master and PhD students).
- 4) May 17–June 16, 2024, University of Cagliari; Italy; Invited Professor (I delivered the course *Applicazioni armoniche, biarmoniche ed immersioni biarmoniche tra varietà Riemanniane*–for PhD and Master students).
- 5) December 1–11, 2018, Texas A&M University-Commerce, USA; Invited Professor.
- 6) June 26–July 26, 2017, University of Brest, France; Invited Professor.
- 7) April 30–May 30, 2015, University of Brest, France; Invited Professor.
- 8) November 1, 2011–February 18, 2012, University of Cagliari; Italy; Regione Autonoma della Sardegna, Visiting Professor Program.
- 9) November 7–20, 2010, Texas A&M University-Commerce, USA; Invited Professor.
- 10) March 10–June 7, 2008, University of Brest, France; Centre National de la Recherche Scientifique (CNRS) fellowship.
- 11) January 12–31, 2008, University of Cagliari, Italy; INdAM fellowship, Invited Professor.
- 12) November 5–18, 2007, Tohoku University, Japan; Invited Professor.
- 13) September 15, 2005–March 15, 2006, University of Cagliari, Italy; NATO fellowship conferred by Consiglio Nazionale delle Ricerche (CNR), Italia.
- 14) May 15–June 15, 2005, University of Brest, France; Invited Professor.
- 15) February 2–April 2, 2005, the "Abdus Salam" ICTP, Trieste, Italy; Visiting Fellowship.
- 16) May 5–9, 2003, the "Abdus Salam" ICTP, Trieste, Italy, "Workshop and Conference on Recent Trends in Nonlinear Variational Problems"; grant conferred by CNRS, France.
- 17) March 1–May 31, 2003, University of Brest, France; Post–Doctoral fellowship conferred by CNRS, France.
- 18) October 1, 2000–March 30, 2001, University of Cagliari, Italy; NATO fellowship conferred by CNR, Italia.
- 19) June 28–July 11, 1998, Cortona, Italy, Summer School on Differential Geometry; fellowship conferred by Scuola Matematica Interuniversitaria.
- 20) July 28–August 31, 1996, Perugia, Italy, Summer School in Mathematics; fellowship conferred by Scuola Matematica Interuniversitaria.
- 21) May 3–10, 1995, Sinaia, Romania, Spring School on Differential Geometry; grant conferred by French Embassy in Romania.

7. RESEARCH STAGES

- 1) June 23–30, 2025, University of Vienna, Austria.
- 2) September 24–October 1, 2019, University of Brest, France.
- 3) October 29–November 5, 2016, University of Brest, France.

8. SOCRATES AND ERASMUS PROGRAMME

- 1) July 3–10, 2022, University of Cagliari, Italy; Erasmus+ Programme.

- 2) June 16–24, 2019, University of Cagliari, Italy; Erasmus+ Programme.
- 3) September 9–16, 2018, University of Cagliari, Italy; Erasmus+ Programme.
- 4) September 5–12, 2017, University of Cagliari, Italy; Erasmus+ Programme.
- 5) June 29–July 6, 2016, University of Cagliari, Italy; Erasmus+ Programme.
- 6) June 9–19, 2015, University of Cagliari, Italy; Erasmus+ Programme.
- 7) April 29–May 2, 2014, University of Cagliari, Italy; Erasmus+ Programme.
- 8) September 22–28, 2013, University of Cagliari, Italy; LLP-Erasmus Programme.
- 9) January 29–February 7, 2011, University of Cagliari, Italy; LLP-Erasmus Programme.
- 10) September 5–12, 2010, University of Cagliari, Italy; LLP-Erasmus Programme.
- 11) September 5–12, 2009, University of Cagliari, Italy; LLP-Erasmus Programme.
- 12) May 19–June 2, 2007, University of Brest, France; Socrates-Erasmus Programme.

9. ROMANIAN RESEARCH GRANTS AS DIRECTOR

- 1) *Subvarietati biarmonice si de curbura medie constanta/Sous-varietes biharmoniques et a courbure moyenne constante*, Grant IBM/2019, cod PN-III-P3-3.1-PM-RO-FR-2019-0234; 2019, 2020; 11240+17760 RON.
- 2) *Biharmonic maps and submanifolds in certain geometric context*, Grant PN-II-RU-TE-2011-3-0108; 2011, 2012, 2013, 2014; 53000+281875+253158+158622 RON.
- 3) *F-structuri pe varietati diferentiabile si proprietati de biarmonicitate*, Grant ET, CEEX, no. 5871; 2006, 2007; 85000 RON.
- 4) *Conditia Palais-Smale si tehnici de reducere pentru aplicatiile biarmonice*, Grant At, CNCSIS, no. 60 GR; 2006, 2007; 15000+15000 RON.
- 5) *Aplicatii biarmonice; stabilitate si schimbari conforme*, Grant At, CNCSIS, no. 33373; 2004, 2005; 35000+100000 mii lei.
- 6) *Aplicatii biarmonice intre varietati riemanniene*, Grant T, ANSTI, no. 6186 GR; 2000, 2001; 10000+10000 mii lei.
- 7) *Sectiuni armonice in fibratul tangent unitar*, Grant T, ANSTI, no. 5146 GR; 1999; 10000 mii lei.

10. ROMANIAN RESEARCH GRANTS AS MEMBER

- 1) *Spectral Methods in Hyperbolic Geometry*, Grant PN-III-P4-ID-PCE-2020-0794; 2021, 2022, 2023. Director CS I Dr. Sergiu Moroianu; total budget 1118032 RON.
- 2) *Dezvoltarea capacitatii de inovare si cresterea impactului cercetarii de excelență la UAIC*, contract nr. 34PFE/19.10.2018; 2018, 2019, 2020. Director Prof. Dr. Alin Andrieș; total budget 4687269 RON.
- 3) *Constant mean curvature and biharmonic submanifolds*, Grant PN-II-RU-TE-2014-4-0004; 2015, 2016, 2017. Director Conf. Dr. Dorel Fetcu; 52612+291640+205748 RON.
- 4) *Combinatorial and geometric methods for studying arithmetic invariants*, PN-II-ID-PCE-2012-4-0640; 2013, 2014, 2015, 2016. Director Prof. Dr. Razvan Litcanu; 89355+160701+225316+242343 RON.

5) *Cohomological methods in algebraic geometry and complex geometry*, PCE Grant PN-II-2228 (502/2009); 2009, 2010, 2011. Director Prof. Dr. Razvan Litcanu; 78198+75000+202732 RON.

11. RECOGNATION

- 1) In 2022: the "Gheorghe Țițeica" Prize of the Romanian Academy.
- 2) In 2019, the paper

R. Caddeo, S. Montaldo, C. Oniciuc. Biharmonic submanifolds of $\mathbb{S}^3$. *Internat. J. Math.* 12 (2001), no. 8, 867–876.

was included in the list of *The 10 Leading Papers* published by the journal *International Journal of Mathematics* in 30 years of publication.

3) In 2006: Prize for the Research Activity in 2005, awarded by the "Al.I. Cuza" University of Iasi.

12. RESEARCH INTERESTS

- Biharmonic Maps and Biharmonic Submanifolds
- Harmonic Maps
- Geometry of Submanifolds
- Riemannian Geometry
- Differential Geometry

13. PAPERS PUBLISHED IN REFEREED JOURNALS

I have published more than 60 papers in prestigious international journals. Among them, I mention: *Advances in Mathematics*, *Compositio Mathematica*, *Transactions of the American Mathematical Society*, *Communications in Contemporary Mathematics*, *Annali della Scuola Normale Superiore di Pisa. Classe di Scienze. Serie V*, *Journal of Geometric Analysis*, *Bulletin of the London Mathematical Society*, *Communications in Analysis and Geometry*, *Mathematische Zeitschrift*, *Israel Journal of Mathematics*, *Journal of the Mathematical Society of Japan*, *Pacific Journal of Mathematics*, etc.

- 1) H. Bibi, D. Fetcu, C. Oniciuc. Segre embedding and biharmonicity. *Tohoku Math. J.*, 78 (2026), 31–45. *ISI*
- 2) S. Andronic, Y. Fu, C. Oniciuc. On the biharmonic hypersurfaces with three distinct principal curvatures in space forms. *Bull. Math. Soc. Sci. Math. Roumanie (N.S.)* 68(116) (2025), no. 1, 35–58. *ISI*
- 3) A. Fardoun, S. Montaldo, C. Oniciuc, A. Ratto. Extrinsic polyharmonic maps into the sphere. *Pacific J. Math.* 331 (2024), no. 2, 259–281. *ISI*
- 4) S. Montaldo, C. Oniciuc, A. Ratto. Polyharmonic surfaces in 3-dimensional homogeneous spaces. *Manuscripta Math.* 174 (2024), no. 1-2, 31–58. *ISI*
- 5) R. Ambrosie, C. Oniciuc. The energy density of biharmonic quadratic maps between spheres. *Differential Geom. Appl.* 93 (2024), Paper No. 102096, 12 pp. *ISI*
- 6) S. Nistor, C. Oniciuc, N.C. Turgay, R. Yegin Sen. Biconservative surfaces in the 4-dimensional Euclidean sphere. *Ann. Mat. Pura Appl. (4)* 202 (2023), no. 5, 2345–2377. *ISI*

- 7) H. Bibi, B.-Y. Chen, D. Fetcu, C. Oniciuc. Parallel mean curvature biconservative surfaces in complex space forms. *Math. Nachr.* 296 (2023), no. 8, 3192–3221. *ISI*
- 8) R. Ambrosie, C. Oniciuc, Y.-L. Ou. Biharmonic homogeneous polynomial maps between spheres. *Results Math.* 78 (2023), no. 4, Paper No. 159, 40 pp. *ISI*
- 9) V. Branding, S. Montaldo, C. Oniciuc, A. Ratto. Polyharmonic hypersurfaces into pseudo-Riemannian space forms. *Ann. Mat. Pura Appl.* (4) 202 (2023), no. 2, 877–899. *(ISI)*
- 10) V. Branding, S. Montaldo, C. Oniciuc, A. Ratto. Unique continuation properties for polyharmonic maps between Riemannian manifolds. *Canad. J. Math.* 75 (2023), no. 1, 1–28. *(ISI)*
- 11) S. Montaldo, C. Oniciuc, A. Pampano. Closed biconservative hypersurfaces in spheres. *J. Math. Anal. Appl.* 518 (2023), no. 1, Paper No. 126697, 16 pp. *(ISI)*
- 12) S. Nistor, C. Oniciuc. On the uniqueness of complete biconservative surfaces in 3-dimensional space forms. *Ann. Sc. Norm. Super. Pisa Cl. Sci.* (5) 23 (2022), no. 3, 1565–1587. *(ISI)*
- 13) S. Montaldo, C. Oniciuc, A. Ratto. On the second variation of the biharmonic Clifford torus in $\mathbb{S}^4$. *Ann. Global Anal. Geom.* 62 (2022), no. 4, 791–814. *(ISI)*
- 14) S. Montaldo, C. Oniciuc, A. Ratto. Polyharmonic hypersurfaces into space forms. *Israel J. Math.* 249 (2022), no. 1, 343–374. *(ISI)*
- 15) D. Fetcu, C. Oniciuc. Biharmonic and biconservative hypersurfaces in space forms. *Differential geometry and global analysis—in honor of Tadashi Nagano*, 65–90, *Contemp. Math.*, 777, Amer. Math. Soc., [Providence], RI, [2022].
- 16) H. Bibi, E. Loubeau, C. Oniciuc. Unique continuation property for biharmonic hypersurfaces in spheres. *Ann. Global Anal. Geom.* 60 (2021), no. 4, 807–827. *(ISI)*
- 17) S. Montaldo, C. Oniciuc, A. Ratto. Index and nullity of proper biharmonic maps in spheres. *Commun. Contemp. Math.* 23 (2021), no. 3, 1950087, 36 pp. *ISI*
- 18) D. Fetcu, E. Loubeau, C. Oniciuc. Bochner-Simons formulas and the rigidity of biharmonic submanifolds. *J. Geom. Anal.* 31 (2021), no. 2, 1732–1755. *ISI*
- 19) V. Branding, S. Montaldo, C. Oniciuc, A. Ratto. Higher order energy functionals. *Adv. Math.* 370 (2020), 107236, 60 pp. *ISI*
- 20) S. Nistor, C. Oniciuc. Complete biconservative surfaces in the hyperbolic space $\mathbb{H}^3$. *Nonlinear Anal.* 198 (2020), 111860, 29 pp. *(ISI)*
- 21) V. Branding, C. Oniciuc. Unique continuation theorems for biharmonic maps. *Bull. Lond. Math. Soc.* 51 (2019), no. 4, 603–621. *(ISI)*
- 22) S. Nistor, C. Oniciuc. On the uniqueness of complete biconservative surfaces in $\mathbb{R}^3$. *Proc. Amer. Math. Soc.* 147 (2019), 1231–1245. *(ISI)*
- 23) D. Fetcu, E. Loubeau, C. Oniciuc. Biharmonic tori in spheres. *Differential Geom. Appl.* 54 (2017), 208–225. *(ISI)*
- 24) D. Fetcu, S. Nistor, C. Oniciuc. On biconservative surfaces in 3-dimensional space forms. *Comm. Anal. Geom.* 24 (2016), no. 5, 1027–1045. *(ISI)*

- 25) E. Loubeau, C. Oniciuc. Constant mean curvature proper-biharmonic surfaces of constant Gaussian curvature in spheres. *J. Math. Soc. Japan* 68 (2016), no. 3, 997–1024. (ISI)
- 26) S. Montaldo, C. Oniciuc, A. Ratto. On cohomogeneity one biharmonic hypersurfaces into the Euclidean space. *J. Geom. Phys.* 106 (2016), 305–313. (ISI)
- 27) S. Montaldo, C. Oniciuc, A. Ratto. Proper biconservative immersions into the Euclidean space. *Ann. Mat. Pura Appl.* (4) 195 (2016), no. 2, 403–422. (ISI)
- 28) S. Montaldo, C. Oniciuc, A. Ratto. Reduction methods for the bienergy. *Rev. Roumaine Math. Pures Appl.* 61 (2016), no. 4, 261–292. (ISI)
- 29) S. Montaldo, C. Oniciuc, A. Ratto. Biconservative Surfaces. *J. Geom. Anal.* 26 (2016), no. 1, 313–329. (ISI)
- 30) S. Montaldo, C. Oniciuc, A. Ratto. Rotationally symmetric biharmonic maps between models. *J. Math. Anal. Appl.* 431 (2015), no. 1, 494–508. (ISI)
- 31) D. Fetcu, C. Oniciuc, A.L. Pinheiro. CMC biconservative surfaces in $\mathbb{S}^n \times \mathbb{R}$ and $\mathbb{H}^n \times \mathbb{R}$. *J. Math. Anal. Appl.* 425 (2015), no. 1, 588–609. (ISI)
- 32) S. Montaldo, C. Oniciuc, A. Ratto. Biharmonic immersions into spheres and ellipsoids. *Rev. Roumaine Math. Pures Appl.* 59 (2014), no. 4, 425–442.
- 33) E. Loubeau, C. Oniciuc. Biharmonic surfaces of constant mean curvature. *Pacific J. Math.* 271 (2014), no. 1, 213–230. (ISI)
- 34) R. Caddeo, S. Montaldo, C. Oniciuc, P. Piu. Surfaces in three-dimensional space forms with divergence-free stress-bienergy tensor. *Ann. Mat. Pur. Appl.* 193 (2014), no. 2, 529–550. (ISI)
- 35) D. Fetcu, C. Oniciuc, H. Rosenberg. Biharmonic submanifolds with parallel mean curvature in $\mathbb{S}^n \times \mathbb{R}$. *J. Geom. Anal.* 23 (2013), no. 4, 2158–2176. (ISI)
- 36) A. Balmuş, S. Montaldo, C. Oniciuc. Biharmonic PNMC submanifolds in spheres. *Ark. Mat.* 51 (2013), no. 2, 197–221. (ISI)
- 37) A. Balmuş, S. Montaldo, C. Oniciuc. New results toward the classification of biharmonic submanifolds in $\mathbb{S}^n$. *An. Ştiinţ. Univ. "Ovidius" Constanţa Ser. Mat.* 20 (2012), 89–114. (ISI)
- 38) D. Fetcu, C. Oniciuc. Biharmonic integral $\mathcal{C}$ -parallel submanifolds in 7-dimensional Sasakian space forms. *Tohoku Math. J.* 64 (2012), no. 2, 195–222. (ISI)
- 39) A. Balmuş, C. Oniciuc. Biharmonic submanifolds with parallel mean curvature vector field in spheres. *J. Math. Anal. Appl.* 386 (2012), no. 2, 619–630. (ISI)
- 40) D. Fetcu, C. Oniciuc. A note on integral $\mathcal{C}$ -parallel submanifolds in $\mathbb{S}^7(c)$. *Rev. Un. Mat. Argentina* 52 (2011), no. 1, 33–45. (ISI)
- 41) A. Balmuş, S. Montaldo, C. Oniciuc. Biharmonic hypersurfaces in 4-dimensional space forms. *Math. Nachr.* 283 (2010), no. 12, 1696–1705. (ISI)
- 42) D. Fetcu, E. Loubeau, S. Montaldo, C. Oniciuc. Biharmonic submanifolds of $\mathbb{C}P^n$. *Math. Z.* 266 (2010), no. 3, 505–531. (ISI)
- 43) A. Balmuş, S. Montaldo, C. Oniciuc. Submanifolds with biharmonic Gauss map. *Internat. J. Math.* 21 (2010), no. 12, 1585–1603. (ISI)

- 44) A. Balmuş, S. Montaldo, C. Oniciuc. Properties of biharmonic submanifolds in spheres. *J. Geom. Symmetry Phys.* 17 (2010), 87–102.
- 45) A. Balmuş, D. Fetcu, C. Oniciuc. Harmonic and biharmonic maps at Iaşi. *An. Ştiinţ. Univ. Al. I. Cuza Iaşi. Mat. (N.S.)* 56 (2010), 81–96.
- 46) D. Fetcu, C. Oniciuc. Biharmonic hypersurfaces in Sasakian space forms. *Diff. Geom. Appl.* 27 (2009), 713–722. (ISI)
- 47) A. Balmuş, C. Oniciuc. Biharmonic surfaces of S^4 . *Kyushu J. Math.* 63 (2009), 339–345. (ISI)
- 48) D. Fetcu, C. Oniciuc. Explicit formulas for biharmonic submanifolds in Sasakian space forms. *Pacific J. Math.* 240 (2009), 85–107. (ISI)
- 49) A. Balmuş, S. Montaldo, C. Oniciuc. Classification results and new examples of proper biharmonic submanifolds in spheres. *Note di Matematica* 28 (2008), suppl. n. 1, 49–61.
- 50) E. Loubeau, S. Montaldo, C. Oniciuc. The stress-energy tensor for biharmonic maps. *Math. Z.* 259 (2008), 503–524. (ISI)
- 51) A. Balmuş, S. Montaldo, C. Oniciuc. Classification results for biharmonic submanifolds in spheres. *Israel J. Math.* 168 (2008), 201–220. (ISI)
- 52) D. Fetcu, C. Oniciuc. Explicit formulas for biharmonic submanifolds in non-Euclidean 3-spheres. *Abh. Math. Sem. Univ. Hamburg* 77 (2007), 179–190. (ISI)
- 53) E. Loubeau, C. Oniciuc. On the biharmonic and harmonic indices of the Hopf map. *Trans. Amer. Math. Soc.* 359 (2007), 5239–5256. (ISI)
- 54) A. Balmuş, S. Montaldo, C. Oniciuc. Biharmonic maps between warped product manifolds. *J. Geom. Phys.* 57 (2007), 449–466. (ISI)
- 55) R. Caddeo, S. Montaldo, C. Oniciuc, P. Piu. The Euler-Lagrange method for biharmonic curves. *Mediterr. J. Math.* 3 (2006), 449–465. (ISI)
- 56) S. Montaldo, C. Oniciuc. A short survey on biharmonic maps between Riemannian manifolds. *Rev. Un. Mat. Argentina* 47 (2006), no. 2, 1–22.
- 57) A. Balmuş, C. Oniciuc. Some remarks on the biharmonic submanifolds of S^3 and their stability. *An. Stiint. Univ. Al.I. Cuza Iasi. Mat. (N.S.)* 51 (2005), f.1, 171–190.
- 58) E. Loubeau, C. Oniciuc. The index of biharmonic maps in spheres. *Compos. Math.* 141 (2005), 729–745. (ISI)
- 59) A. Balmuş, C. Oniciuc, N. Papaghiuc. Harmonic properties on the tangent bundle. *An. Univ. Vest Timisoara, Ser. Mat.-Inform.* 42 (2004), 17–28.
- 60) R. Caddeo, C. Oniciuc, P. Piu. Explicit formulas for non-geodesic biharmonic curves of the Heisenberg group. *Rend. Sem. Mat. Univ. Politec. Torino* Vol. 62 no. 3 (2004), 265–278.
- 61) C. Oniciuc. New examples of biharmonic maps in spheres. *Colloq. Math.* 97 (2003), no. 1, 131–139.
- 62) C. Oniciuc. Biharmonic maps between Riemannian manifolds. *An. Stiint. Univ. Al.I. Cuza Iasi. Mat. (N.S.)* 48 (2002), no. 2, 237–248.
- 63) C. Oniciuc. On the second variation formula for biharmonic maps to a sphere. *Publ. Math. Debrecen* 61 (2002), no. 3-4, 613–622. (ISI)
- 64) R. Caddeo, S. Montaldo, C. Oniciuc. Biharmonic submanifolds in spheres. *Israel J. Math.* 130 (2002), 109–123. (ISI)
- 65) R. Caddeo, S. Montaldo, C. Oniciuc. Biharmonic submanifolds of S^3 . *Internat. J. Math.* 12 (2001), no. 8, 867–876. (ISI)
- 66) C. Oniciuc. Harmonic sections in the unitary tangent bundle. *Demonstratio Math.* 34 (2001), no. 3, 681–692.

- 67) C. Oniciuc. Pseudo-Riemannian metrics on tangent bundle and harmonic problems. *Bull. Belg. Math. Soc. Simon Stevin* 7 (2000), no. 3, 443–454. (ISI)
- 68) C. Oniciuc. Nonlinear connections on tangent bundle and harmonicity. *Ital. J. Pure Appl. Math.* No. 6 (1999), 109–122.
- 69) C. Oniciuc. On the harmonic sections of tangent bundles. *An. Univ. Bucuresti Mat.* 47 (1998), no. 1, 67–72.
- 70) C. Oniciuc. The tangent bundles and harmonicity. *An. Stiint. Univ. Al.I. Cuza Iasi. Mat. (N.S.)* 43 (1997), no. 1, 151–172.

The paper 19) received the "Gheorghe Țițeica" Prize of the Romanian Academy.

The paper 64) received the qualificative "eccellente" (the highest) from CIVR (Comitato Nazionale di Indirizzo per la Valutazione della Ricerca).

14. PAPERS PUBLISHED IN PROCEEDINGS

- 1) S. Nistor, C. Oniciuc. Global Properties of Biconservative Surfaces in $\mathbb{R}^3$ and S^3 . *Proceedings book of International Workshop on Theory of Submanifolds*, Vol 1, 2016, 30–56.
- 2) P. Baird, E. Loubeau, C. Oniciuc. Harmonic and biharmonic maps from surfaces. *Harmonic maps and differential geometry, Contemp. Math., 542, Amer. Math. Soc., Providence, RI*, 2011, 223–230.
- 3) A. Balmuş, D. Fetcu, C. Oniciuc. Stability properties for biharmonic maps. *Geometry—Exploratory Workshop on Differential Geometry and its Applications, 1–19, Cluj Univ. Press, Cluj-Napoca*, 2011.
- 4) D. Fetcu, C. Oniciuc. On the geometry of biharmonic submanifolds in Sasakian space forms. *Proceedings of the Tenth International Conference on Geometry, Integrability and Quantization, June 6–11, 2008, Varna*, 171–182.
- 5) D. Fetcu, C. Oniciuc. Biharmonic submanifolds in Sasakian space forms. *Symposium on the Differential Geometry of Submanifolds, [s.n.], [s.l.], July 3–7, 2007, Valenciennes, France*, 85–88.
- 6) A. Balmuş, S. Montaldo, C. Oniciuc. Biharmonic submanifolds in space forms. *Symposium on the Differential Geometry of Submanifolds, [s.n.], [s.l.], July 3–7, 2007, Valenciennes, France*, 25–32.
- 7) R. Caddeo, E. Loubeau, S. Montaldo, C. Oniciuc, P. Piu. Biharmonic maps between Riemannian manifolds. *ICM 2006, Madrid, Abstracts, Posters, Short Communications, Mathematical Software, Other Activities*, 41–42.
- 8) E. Loubeau, S. Montaldo, C. Oniciuc. The biharmonic stress-energy tensor and the Gauss map. *Proceedings of the Eighth International Conference on Geometry, Integrability and Quantization, June 9–14, 2006, Varna*, 234–245.
- 9) R. Caddeo, S. Montaldo, C. Oniciuc, P. Piu. The classification of biharmonic curves of Cartan-Vranceanu 3-dimensional spaces. *Modern trends in geometry and topology, Cluj Univ. Press, Cluj-Napoca, 2006*, 121–131.
- 10) E. Loubeau, C. Oniciuc. The biharmonic index of the Hopf map. *Tensor (N.S.)* 66 (2005), 1–8 (Proceedings of "The VIIth International Conference of the Tensor Society", Timisoara, 2004).
- 11) C. Oniciuc. Biharmonic maps in spheres and conformal changes. *Recent advances in geometry and topology, Cluj Univ. Press, Cluj-Napoca, 2004*, 279–282.
- 12) R. Caddeo, S. Montaldo, C. Oniciuc. Biharmonic immersions into spheres. *Differential Geometry, Valencia, 2001, World Sci. Publishing, River Edge, NJ, 2002*, 97–105.

13) C. Oniciuc. The nonlinear connections and harmonicity. *Proceedings of the Third International Workshop on Differential Geometry and its Applications and the First German-Romanian Seminar on Geometry (Sibiu, 1997)*. *Gen. Math.* 5 (1997), 287–296.

The poster 7) has been awarded with the Second Prize of the Posters Competition, section Geometry.

15. CITATIONS

- 1) Sum of Times Cited, in ISI papers, without self-citations: more than 1141 (see Web of Science Core Collection, Clarivate Analytics).
- 2) Sum of Times Cited, in scientific monographs published by international publishing houses, without self-citations: more than 80.
- 3) H-index: 20.

My papers were cited by high level papers published in renowned journals as: *Journal of the European Mathematical Society*, *Transactions AMS*, *Advances in Mathematics*, *Journal für die Reine und Angewandte Mathematik [Crelle's Journal]*, *Mathematische Zeitschrift*, *International Mathematics Research Notices–IMRN*, *Communications in Analysis and Geometry*, *Proceedings of the London Mathematical Society–Third Series*, *Calculus of Variations and Partial Differential Equations*, *Journal of Differential Equations*, *Journal of Geometric Analysis*, *Communications in Partial Differential Equations*, *Nonlinear Analysis(–Theory, Methods and Applications–An International Multidisciplinary Journal)*, *Michigan Mathematical Journal*, *Annali di Matematica Pura ed Applicata*, *Pacific Journal of Mathematics*, *Proceedings of the American Mathematical Society*, *Kyoto Journal of Mathematics*, *Osaka Journal of Mathematics*, *The Tohoku Mathematical Journal–Second Series*, *Israel Journal of Mathematics*, *Annals of Global Analysis and Geometry*, *Canadian Mathematical Bulletin–Bulletin Canadien de Mathématiques*, *Indiana University Mathematics Journal*, *Proceedings of the Royal Society of Edinburgh Section A: Mathematics*, etc.

16. TALKS

- 1) May 8, 2026, Münster, Germany; Oberseminar Differentialgeometrie; *Invited Speaker*.
- 2) March 24, 2026, Bucuresti; Seminar "Geometry" organized by Simion Stoilow Institute of Mathematics of the Romanian Academy; *Invited Speaker*.
- 3) May 14, 2025, Lund, Sweden; "The 17th Differential Geometry Day at Lund"; *Invited Speaker*.
- 4) December 10, 2024, Cagliari, Italy; "Seminari di Geometria Differenziale e Topologia"; *Invited Speaker*.
- 5) September 6–9, 2024, Iași, Romania; "Geometry Days – TUIASI 2024"; *Invited Speaker*.
- 6) June 21, 2023, Istanbul, Turkey; "Differential Geometry Day (DGD2023)"; *Invited Speaker*.
- 7) July 5–7, 2022, Cagliari, Italy; "The STAGE Workshop"; *Invited Speaker*.
- 8) June 28–July 3, 2019, Galati, Romania; "The Ninth Congress of Romanian Mathematicians"; *Invited Speaker*.
- 9) November 15, 2018, Berlin, Germany; Seminar "Topics in Geometric Analysis" organized by the Institute of Mathematics at the Free University of

- Berlin and the Institute of Mathematics at the University of Potsdam; *Invited Speaker*.
- 10) April 24, 2018, Bucuresti; Seminar "Geometry" organized by Simion Stoilow Institute of Mathematics of the Romanian Academy; *Invited Speaker*.
 - 11) September 19, 2017, Iasi, Romania; "Geometry Day-2017".
 - 12) June 10, 2017, Patras, Greece; "Geometry Day-2017"; *Main Speaker*.
 - 13) June 30, 2016, Cagliari, Italy; "Differential Geometry Workshop. On the occasion of the seventieth birthday of Renzo Caddeo"; *Main Speaker*.
 - 14) June 2-4, 2016, Istanbul, Turkey; "International Workshop on Theory of Submanifolds"; *Main Speaker*.
 - 15) September 23-26, 2015, Ploiesti, Romania; "The 12-th International Workshop on Differential Geometry and its Applications"; *Main Speaker*.
 - 16) June 10-12, 2015, Cagliari, Italy; "Differential Geometry Workshop. Harmonic maps, biharmonic maps, harmonic morphisms and related topics"; *Main Speaker*.
 - 17) September 8-12, 2014, Bucuresti, Romania; "Real and Complex Differential Geometry"; *Main Speaker*.
 - 18) September 3-5, 2014, Istanbul, Turkey; "International Workshop on Finite Type Submanifolds"; *Main Speaker*.
 - 19) June 29-July 5, 2011, Brasov, Romania; "The Seventh Congress of Romanian Mathematicians".
 - 20) June 21-26, 2010, Iasi, Romania; "Alexandru Myller Mathematical Seminar Centennial Conference".
 - 21) September 7-10, 2009, Cagliari, Italia; "A Harmonic Map Fest: in honour of Prof. John C. Wood on the occasion of his 60th birthday".
 - 22) September 2-4, 2009, Iasi, Romania; "The 9th International Workshop on Differential Geometry and its Applications".
 - 23) June 6-11, 2009, Varna, Bulgaria; "The 11th International Conference on Geometry, Integrability and Quantization".
 - 24) July 3-7, 2007, Valenciennes, France; "Symposium on the differential geometry of submanifolds".
 - 25) June 9-14, 2006, Sts. Constantine and Elena (Varna), Bulgaria; "The 8th International Conference on Geometry, Integrability and Quantization".
 - 26) August 2004, Timisoara, Romania; "The VIIth International Conference of the Tensor Society".
 - 27) September 1-6, 2003, Cluj-Napoca, Romania; "The Sixth International Workshop on Differential Geometry and its Applications".
 - 28) September 18-22, 2001, Timisoara, Romania; "The Fifth International Workshop on Differential Geometry and its Applications".

17. CONFERENCES ATTENDED

- 1) November 6-9, 2025, Iași, Romania; "International Conference on Applied and Pure Mathematics".
- 2) September 29-October 01, 2025, Munster, Germany; "Differential Geometry Workshop 2025".
- 3) November 9-12, 2023, Iasi, Romania; "International Conference on Applied and Pure Mathematics, 7th edition".
- 4) September 6-9, 2023, Iasi, Romania; "Differential Geometry Workshop - 2023".

- 5) September 4–6, 2024, Brest, France; "Differential Geometry Workshop - 2024".
- 6) April 1–2, 2023, Spring Eastern Sectional Meeting, Meeting virtually, hosted by the American Mathematical Society, Virtual; "Special Session on Recent Advances in Differential Geometry".
- 7) September 7–9, 2022, Vienna, Austria; "Differential Geometry Workshop - 2022".
- 8) September 2, 2021, Vienna, Austria; "Differential Geometry Workshop 2021-Online".
- 9) August 28, 2020, Vienna, Austria; "Differential Geometry Workshop 2020-Online".
- 10) September 12–14, 2018, Cagliari, Italy; "Differential Geometry Workshop 2018. Harmonic maps, biharmonic maps, harmonic morphisms and related topics";
- 11) May 15–18, 2017, Landeda (Brest), France; "Conference on Harmonic Maps".
- 12) July 11–15, 2016, Brno, Czech Republic; "Differential Geometry and its Applications".
- 13) June 2–4, 2016, Istanbul, Turkey; "International Workshop on Theory of Submanifolds".
- 14) September 18–20, 2014, Villasimius, Italy; "New Trends in Differential Geometry".
- 15) September 19–22, 2013, Ploiesti, Romania; "International Workshop on Differential Geometry and its Applications".
- 16) September 6–9, 2011, Granada, Spain; "The VI International Meeting on Lorentzian Geometry".
- 17) August 26–30, 2011, Constanta, Romania; "The 10th International Workshop on Differential Geometry and its Applications".
- 18) June 18–29, 2011, IMPA, Rio de Janeiro, Brasil; "Coloquio Brasileiro de Matematica".
- 19) November 12–14, 2010, College Station, USA; "Texas Geometry and Topology Conference".
- 20) May 14–16, 2009, Sibiu, Romania; "Workshop on Moduli Spaces in Geometry and Physics".
- 21) August 22–30, 2006, Madrid, Spain; "International Congress of Mathematicians (ICM)".
- 22) August 30–September 3, 2004, Prague, Czech Republic; "The 9th International Conference on Differential Geometry and its Applications".
- 23) August 26–31, 2001, Iasi, Romania; "Conference on Finsler and Lagrange Geometries".
- 24) July 2000, Bucuresti, Romania; "The Third Balcanic Congress on Differential Geometry and its Applications".
- 25) September 18–22, 1999, Brasov, Romania; "The Fourth International Workshop on Differential Geometry and its Applications".
- 26) September 18–23, 1997, Sibiu, Romania; "The Third International Workshop on Differential Geometry and its Applications".

18. MEMBER IN THE SCIENTIFIC COMMITTEE OF CONFERENCES

- 1) November 6–9, 2025, Iași, Romania; "International Conference on Applied and Pure Mathematics".
- 2) September 4–6, 2024, Brest, France; "Differential Geometry Workshop - 2024".
- 3) September 7–9, 2022, Vienna, Austria; "Differential Geometry Workshop - 2022".
- 4) September 2, 2021, Vienna, Austria; "Differential Geometry Workshop 2021-Online".
- 5) August 28, 2020, Vienna, Austria; "Differential Geometry Workshop 2020-Online".
- 6) September 12–14, 2018, Cagliari, Italy; "Differential Geometry Workshop 2018. Harmonic maps, biharmonic maps, harmonic morphisms and related topics";
- 7) June 2–4, 2016, Istanbul, Turkey; "International Workshop on Theory of Submanifolds".

19. MEMBER IN THE ORGANIZING COMMITTEE OF CONFERENCES

- 1) September 6–9, 2023, Iasi, Romania; "Differential Geometry Workshop - 2023".
- 2) April, 1–2, 2023, Spring Eastern Sectional Meeting, Meeting virtually, hosted by the American Mathematical Society, Virtual; "Special Session on Recent Advances in Differential Geometry".
- 3) September 19, 2017, Iasi, Romania; "Geometry Day–2017".

20. BOOKS

- 1) C. Oniciuc. *Lecții de geometrie diferențială a curbilor și suprafețelor. Casa Editoriala DEMIURG, Iași, 2018 (ISBN 978-973-152-350-7).*
- 2) C. Oniciuc. *An introduction in the theory of harmonic maps. (in romanian). Casa Editoriala DEMIURG, Iași, 2007 (ISBN 978-973-7603-81-4).*

21. PROCEEDINGS EDITOR

- (1) Co-editor of AMS Special Session, Recent advances in differential geometry and related areas. AMS Special Session, Recent Advances in Differential Geometry, April 1–2, 2023, virtual. Tenth Congress of Romanian Mathematicians Special Session, Recent Advances in the Geometry of Submanifolds, June 30–July 5, 2023, Pitești, Romania. Edited by Bogdan D. Suceavă, Adara M. Blaga, Marian Ioan Munteanu, Cezar Oniciuc, Shoo Seto, Gabriel-Eduard Vilcu and Lihan Wang *Contemp. Math.*, 821, American Mathematical Society, [Providence], RI, [2025], ©2025. ix+179 pp.

22. PH.D. STUDENTS

- 1) Rareș Ambrosie. *Dissertation: Biharmonic Polynomial Maps Between Spheres. "Alexandru Ioan Cuza" University of Iași, September 24, 2025.*
The thesis received the *Very Well* distinction.

- 2) Hiba Bibi. Dissertation: Surfaces et hypersurfaces biharmoniques dans les spheres et les espaces projectifs complexes. *Universite de Bretagne Occidentale - Brest*, June 23, 2022, Co-supervisor Prof. E. Loubeau.
The thesis received *The first prize of excellence in the domain Maths-STIC*, awarded by the Universite de Bretagne Occidentale - Brest.
- 3) Simona Nistor. Dissertation: Biharmonic and biconservativity topics in the theory of submanifolds. "*Alexandru Ioan Cuza*" *University of Iasi*, September 20, 2017.
The thesis received the *Summa Cum Laude* distinction.
- 4) Adina Balmuş. Dissertation: Biharmonic Maps and Submanifolds. *Università degli Studi di Cagliari*, 2008, Co-supervisor Prof. S. Montaldo.
The thesis received the *Ottimo* distinction (the highest) and it was published at *Geometry Balkan Press*, 2009,
<http://www.mathem.pub.ro/dgds/mono/dgdsmono.htm>

23. POST-DOC SUPERVISION

- 1) June 15, 2024 – June 15, 2025, Aykut Kayhan from Maltepe University, Istanbul, Turkey.

24. PHD STAGE SUPERVISION

- 1) February 01 – July 31, 2025, Antonio Sanna from University of Cagliari, Italy, PhD Supervisor: Prof. dr. Stefano Montaldo.

25. EDITORIAL DUTIES

- 1) Editor in Chief of *Analele Stiintifice ale Universitatii "Al.I. Cuza" Iasi, Matematica (N.S.)*, 2014(F2)–2016(F1) and 2017(F1)–2024(F2).
- 2) Scientific Secretary of *Analele Stiintifice ale Universitatii "Al.I. Cuza" Iasi, Matematica (N.S.)*, 2004(F1)–2014(F1).
- 3) Co-editor of *The biharmonic map bibliography*, a complete bibliography of biharmonic maps
<http://people.unica.it/biharmonic/publication/>
- 4) Referee for *Transactions AMS*, *Advances in Mathematics*, *Journal of Geometric Analysis*, *Communications in Analysis and Geometry*, *Annali della Scuola Normale Superiore di Pisa. Classe di Scienze. Serie V*, *Annals of Global Analysis in Geometry*, *Manuscripta Mathematica*, *Differential Geometry and its Applications*, *Journal of Geometry and Physics*, *Mathematische Nachrichten*, *Glasgow Mathematical Journal*, *Indiana University Mathematics Journal*, *Annali di Matematica Pura ed Applicata*, *Pacific Journal of Mathematics*, *International Journal of Mathematics*, *Houston Journal of Mathematics*, *Results in Mathematics*, *International Journal of Mathematics and Mathematical Sciences*, *Analele Stiintifice ale Universitatii "Al.I. Cuza" Iasi. Matematica (N.S.)*, etc.
- 5) Reviewer for Zentralblatt.

26. FOREIGN LANGUAGES

English and Italian - medium level; Russian - basic level.