

CURRICULUM VITAE of Mirjana Djorić

Affiliation: Faculty of Mathematics, University of Belgrade, Studentski trg 16, pb 550, 11000 Belgrade, Serbia,

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Place and date of birth: Niš, Serbia, November 19, 1957.

Degrees:

Ph.D., Mathematics, University of Belgrade, 1994

M.Sc., Mathematics, University of Belgrade, 1987

B.Sc., Mathematics, University of Belgrade, Belgrade, Serbia, 1980

Research visits:

Katholieke Univ. Leuven, (1988, 1989, 1991, 1997), Charles Univ., Prague (1999), TU Berlin, (2001, 2002), MGU Moskow, (2002), Seconda Università di Roma (2003, 2004, 2005), LAMATH, Univ. de Valenciennes, (2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011), Institut Élie Cartan, Univ. Henri Poincaré, Nancy (2007), Univ. Al. I. Cuza, Iasi (2009), Keio Univ. (2009), Univ. "La Sapienza", Univ. degli Studi Roma Tre (2010), IHES, Paris (2010, 2012).

Related activities:

Since 1997: reviewer for the local red. Zentralblatt für Mathematik.

2001-2004: Member of the project between Univ.Tor Vergata, Roma and Faculty of Math., Belgrade,

2000-2004: Member of the project between TU Berlin, and Faculty of Math., Belgrade,

since 2001: Member of the project between MGU Moskow and Univ. of Belgrade,

2001-2006: Member of the project Geometry, education and visualization with applications, MM1646, at the Ministry of Science of Serbia,

2002-2007: Leader of the Seminar "Geometry, education and visualization with applications", at the Math. Institute SANU, Belgrade,

2002: Member of the Scientific Committee and Organizing Committee of the Workshop Contemporary Geometry and Related Topics, Belgrade,

2002: Member of the Scientific Committee of the XIII National Conference on Geometry, Kragujevac

2004-2006: Member of the project Multimedia technology for Mathematics and Computer Science Education, DAAD

2004, 2005: Member of the Editorial Board of Proceedings of the Workshop Contemporary Geometry and Related Topics, Belgrade,

2004-05: Co-leader (with L. Vrancken, LAMATH, Université de Valenciennes) of the project of bilateral cooperation between France and Serbia 2004-05 (project "Pavle Savić",)

2005: Member of the Scientific Committee and Organizing Committee of the Conference Contemporary Geometry and Related Topics,

Since 2005: reviewer for Mathematical Reviews.

Since 2006: Member of the project Geometry, education and visualization with applications, 144032D, at the Ministry of Science and Environmental Protection of Serbia,

2010: Member of the Scientific Committee of the XVI Geometrical Seminar held in Vrnjacka banja

2012: Member of the Programme Committee XVII Geometrical Seminar, Zlatibor, 3-8.9.2012.

2011-2014: Member of the Professional Board of the University of Belgrade

Carrer:

1980-1987: Teacher at the Grammar School of Mathematics, Belgrade.

1980-1983: Part-time assistant at the Faculty of Pharmacy, Univ. of Belgrade.

1984-1985: Part-time assistant at the Faculty of Mathematics, University of Belgrade.

1999-2000: Part-time assistant professor at the Faculty for Teachers, Univ. of Belgrade.

1987-1994: Full-time assistant at the Faculty of Mathematics, University of Belgrade.
 1992-1996: Part-time teacher at the Grammar School of Mathematics for special talents, Belgrade.
 1995-2000: Assistant professor at the Faculty of Mathematics, University of Belgrade.
 2000-2010: Associate professor at the Faculty of Mathematics, University of Belgrade.
 since 2010: Full professor at the Faculty of Mathematics, University of Belgrade.

Field of research: Differential geometry, in particular Riemannian geometry.

Meetings with communication:

- 4. – 9.5.1986. Seggau, I Osterreich-Jugoslawische Geometrietagung, "One characterization of some hypersurfaces of Euclidean spaces";
- 5. – 12.7.1986. Smolyan, 2nd International Conference on Geom., "Curvature conditions with conharmonic curvature tensor for complex hypersurfaces in complex space form";
- 25. – 28.9.1986. Sarajevo, National Conference on Geometry, "About one characterization of complex hypersurfaces of spaces of constant holomorphic sectional curvature";
- 27.6.1992. Kragujevac, IX National Conference on Geometry, "Geometry of geodesic tubes on Sasakian spheres on Sasakian manifolds";
- 25. – 30.7.1994. Debrecen, Colloquium on Differential Geometry, "Geometry of geodesic tubes on Sasakian manifolds";
- 20. – 22.10.1994. Niš, Filomat '94, (X National Conference on Geometry), "Geodesic tubes and Jacobi vector fields on complex space forms".
- 22.–27.5.1995. Petrovac, National Conference on Mathematics, "On contact submanifolds in Kaehler manifolds".

- 22.8. – 1.9.1995. Brno, 6th Conference on Differential Geometry and Applications, "On contact submanifolds in certain Kähler manifolds".
- 27. – 30.7.1996. Budapest, Conference on Differential Geometry, "On the eigenvalues of the shape operator of some real submanifolds of complex projective space".
- 10. – 17.10.1996. Divčibare, XI National Conference on Geometry, "On locally Hermitian symmetric spaces".
- 10. – 14.8.1998. Brno, 7. Conference on Differential Geometry and Applications, "Certain application of an integral formula to CR submanifold of complex projective space".
- 8. – 11.10.1998. Novi Sad, XII National Conference on Geometry, "One characterization of generalized equators $M_{p,q}^C$ by certain inequality".
- 25. – 30.7.2000. Debrecen, Colloquium on Differential Geometry, "On curvature homogeneity of order one of three-dimensional Lorentzian manifolds".
- 18. – 23.9.2000. Bilbao, International Congress on Differential Geometry in memory of Alfred Gray, "On geodesic balls in Riemannian manifolds endowed with symmetric connection".
- 15. – 21.5.2002. Beograd, Workshop Contemporary Geometry and Related Topics, "The Taylor expansion for generalized volume functions and its application to hypersurface theories".
- 18. – 20.10.2002. Kragujevac, XIII Yugoslav Geometrical Seminar, "On curvature of CR submanifolds of maximal CR dimension in complex projective space".
- 28.11. – 1.12.2002. Kazan, "Lobachevskii Seminar", "On curvature of CR submanifolds of maximal CR dimension in complex projective space".
- 11 – 14.6.2003. Lecce, International Conference Curvature in Geometry, "On the shape operator of CR submanifolds of maximal CR dimension".
- 25 – 28.6.2003. Valenciennes, Leuven, Workshop Theory of Submanifolds, "CR submanifolds of maximal CR dimension".
- 5 – 10.9.2003. Varna, 6. International Conference on Geometry and Applications, "Harmonic unit vector fields on CR submanifolds of maximal CR dimension in complex projective space".

2. – 5.10.2003. Zrenjanin, XIV Yugoslav Geometrical Seminar, "One more example of harmonic unit vector field".
- 30.8. – 3.9.2004. Prague, 9th Conference on Diff. Geom. and Appl., "CR submanifolds of maximal CR dimension of Kähler manifolds and their (almost) contact structure".
- 28.9. – 3.10.2004. Petrovac, XI Congress of Mathematicians of Serbia and Montenegro, "On some three-dimensional CR submanifolds in S^6 ".
14. – 18.2.2005. Moskow, International Conference "Topology, Analysis and Applications to Mathematical Physics" dedicated to the memory of Professor Yu. P. Solovyov, "CR submanifolds of maximal CR dimension in complex space form and second fundamental form".
- 26.6. – 2.7.2005. Beograd, Conference Contemporary Geometry and Related Topics, "Contact structure of three-dimensional CR submanifolds in S^6 ".
- 22.8. – 30.8.2006. Madrid, International Congress of Mathematicians, "CR submanifolds of maximal CR dimension in Kaehler manifolds",
- 4.9. – 8.9.2006. Granada, International Seminar on Applied Geometry in Andalusia, "On three-dimensional CR submanifolds in six-dimensional sphere".
- 11.9. – 16.9.2006. Tenerife, XV International Workshop on Geometry and Physics, "Some conditions on the second fundamental form of CR submanifolds of maximal CR dimension in complex space forms".
- 21 – 24.9.2006. Belgrade, "Workshop on Multimedia Technology for Mathematics and Computer Science Education", joint communication with M. Antić and B. Živković, "Online collection of problems in constructive geometry".
- 3 – 7.7.2007. Valenciennes, Symposium on the differential geometry of Submanifolds, "On second fundamental form of CR submanifolds of maximal CR dimension in complex space forms".
- 7 – 11.7.2008. Santiago de Compostela, VIII International Colloquium on Differential Geometry, (E. Vidal Abascal Centennial Congress), "Invariant submanifolds of a real hypersurface of a complex manifold".
- 28.8. – 2.9.2008. Novi Sad, 12th Serbian Mathematical Congress, "CR submanifolds of maximal CR dimension in Kaehler manifolds".
- 19 – 27.8.2010. Hyderabad, India, International Congress of Mathematicians, "Certain conditions on the second fundamental form of CR submanifolds of maximal CR dimension of complex hyperbolic space".
- 20 – 25.9.2010. Vrnjacka banja, Serbia, XVI Geometrical Seminar, "Certain conditions on the second fundamental form of CR submanifolds of maximal CR dimension of complex hyperbolic space".
- 27 – 30.8.2012. Leuven, Belgium, "PADGE 2012", (Pure and applied differential geometry) "Real submanifolds of codimension two of a complex space form"
- 5 – 9.11.2012. Minsk, Belarus, XI Belarusian Mathematical Conference, "Real submanifolds of codimension two of a complex space form".
10. – 13.10.2013. Bucharest, The International Conference on Differential Geometry and Dynamical Systems (DGDS-2013), "CR submanifolds in complex space forms".
- 13 – 21.8.2014. Seoul, International Congress of Mathematics (ICM 2014), "Submanifolds of codimension two of Kaehler manifolds".
- 18 – 20.9.2014. Villasimius, Cagliari, Sardinia, New Trends in Differential Geometry, "Real submanifolds of codimension two of a complex space form". (poster)

LIST OF PUBLICATIONS OF MIRJANA DJORIĆ

Research papers:

1. M. Djorić, M. Petrović-Torgašev and L. Verstraelen, Conditions on the conharmonic curvature tensor of Kähler hypersurfaces in complex space forms, *Publ. I. Math-Belgrade* 44(58), (1988), 97-108.
2. N. Bokan, M. Djorić, M. Petrović-Torgašev and L. Verstraelen, On conharmonic curvature tensor of hypersurfaces in Euclidean spaces, *Glasnik matematički*, XXIV(44), (1989), 89-101.
3. M. Djorić and L. Vanhecke, Naturally reductive quasi-Kähler manifolds, *C. R. Math. Rep. Sci. Canada* XI(2), (1989), 69-74.
4. M. Djorić and L. Vanhecke, Almost Hermitian geometry, geodesic spheres and symmetries, *Math. Okayama Univ.* 32, (1990), 187-206.
5. M. Djorić and L. Vanhecke, A theorem of Archimedes about spheres and cylinders and two-point homogeneous spaces, *Bull. Austral. Math. Soc.*, 40, (1991), 377-386.
6. M. Djorić and L. Vanhecke, Geometry of geodesic spheres on Sasakian manifolds, *Rend. Sem. Mat. Univ. Pol. Torino* 49, (1991), 329-357.
7. M. Djorić and L. Vanhecke, Geometry of tubes about characteristic curves on Sasakian manifolds, *Rend. Circ. Mat. Palermo* XLI, (1992), 111-122.
8. M. Djorić, Geometry of geodesic spheres on Sasakian manifolds, *Zbornik radova Prir.-matem. fakulteta u Kragujevcu*, 16(1994), 33-40.
9. M. Djorić, On characterizations of Sasakian space forms and locally φ -symmetric spaces, *Publ. Math.-Debrecen*, 46(1995), 349-372.
10. M. Djorić, Geodesic tubes and Jacobi vector fields on complex space forms, *Filomat*, 9:2 (1995), 131-142.
11. M. Djorić, Geometry of geodesic tubes on Sasakian manifolds, Proc. Colloquium on Differential Geometry, Debrecen 1994, (Eds. J. Szenthe and L. Tamássy), Kluwer Ac. Publ, 87-102.
12. M. Djorić, Characterizations of complex space forms and locally Hermitian symmetric spaces by geodesic tubes, *Indian J. Pure Ap. Math.*, 26(1995), 1073-1086.
13. M. Djorić, Geometry of geodesic tubes on Kähler manifolds, *Saitama Math. J.*, 14(1996), 41-54.
14. M. Djorić, Geometry of tubes about φ -geodesics on Sasakian manifolds, *Acta Math. Hung.*, 75 (1-2) (1997), 137-159.
15. M. Djorić, M. Okumura, CR submanifolds of maximal CR dimension of complex projective space, *Arch. Math.*, 71(1998), 148-158.
16. M. Djorić, M. Okumura, On contact submanifolds in complex projective spaces, *Math. Nachr.*, 202(1999), 17-28.
17. P. Bueken, M. Djorić, Three-dimensional Lorentz metrics and curvature homogeneity of order one, *Annals of Global Analysis and Geometry*, 18(2000), 85-103.
18. N. Bokan, M. Djorić, U. Simon, An extension of A. Gray's investigations on small geodesic balls, *Contemporary Mathematics*, The Mathematical Legacy of Alfred Gray, Proceedings of the International Congress on Differential Geometry, September 2000, Bilbao, Spain 288 (2001), 268-272.
19. N. Bokan, M. Djorić, On power series expansions of tensor fields for a torsion free connection, Proceedings of the 10th Congress of Yugoslav Mathematicians, Belgrade, (2001), 185-188.
20. M. Djorić, M. Okumura, CR submanifolds of maximal CR dimension in complex manifolds, Proceedings of the Workshop PDE's, Submanifolds and Affine Differential Geometry, Banach center publications, volume 57, Institute of Mathematics, Polish Academy of Sciences, Warszawa 2002, 89-99.
21. M. Djorić, M. Okumura, An application of an integral formula to CR submanifold of complex projective space, *Publ. Math. Debrecen*, 62/1-2(2003), 213-225.
22. N. Bokan, M. Djorić, U. Simon, Geometric structures as determined by the volume of generalized geodesic balls, *Result. Math.*, vol. 43 (2003), 205-234.

- 23.** M. Djorić, M. Okumura, On curvature of CR submanifolds of maximal CR dimension in complex projective space, *Izvestiya VUZov. Matematika*, No. 11 (498) (2003), 15-23; Russian Mathematics (Iz. VUZ), vol 47, number 11, (2003), 12-20.
- 24.** M. Djorić, CR submanifolds of maximal CR dimension in complex projective space and its holomorphic sectional curvature, *Kragujevac J. Math.*, 25 (2003), 171-178.
- 25.** M. Djorić, M. Okumura, Levi form of CR submanifolds of maximal CR dimension of complex space forms, *Acta Math. Hungar.*, 102 (4), (2004), 297-304.
- 26.** N. Bokan, M. Djorić, Connection, metric and corresponding geodesic balls and spheres on analytic manifolds, *Bull. Soc. Math. Banja Luka*, 9, (2002), 94-109.
- 27.** M. Djorić, M. Okumura, CR submanifolds of maximal CR dimension in complex space forms and second fundamental form, Proceedings of the Workshop Contemporary Geometry and Related Topics, Belgrade, Yugoslavia, 15-21 May, 2002, World Scientific Publisher, (editors N. Bokan, M. Djorić, A. T. Fomenko, Z. Rakić, J. Wess), (2004), 105-116.
- 28.** M. Djorić, P. Janičić, Constructions, Instructions, Interactions, *Teaching Mathematics and its Applications*, 23(2), (2004), 69-88.
- 29.** M. Djorić, Commutative condition on the second fundamental form of CR submanifolds of maximal CR dimension of a Kähler manifold, "Complex, Contact and Symmetric manifolds - In Honor of L.Vanhecke", Progress in Mathematics, Birkhauser, vol. 234, 105-120. Editors: O. Kowalski, E. Musso, D. Perrone.
- 30.** N. Bokan, M. Djorić, Geometry determined by volume of generalized geodesic balls defined by harmonic connections, *Trudy seminara po vekt. i tenz. analizu*, Vol.26, pp.60-74, (2005), Moscow State University, Moscow.
- 31.** M. Antić, M. Djorić, L. Vrancken, Characterization of totally geodesic totally real 3-dimensional submanifolds in the 6-sphere, *Acta Mathematica Sinica*, Vol. 22, No. 5, (2006), 1557-1564.
- 32.** M. Djorić, L. Vrancken, Three dimensional minimal CR submanifolds in S^6 satisfying Chen's equality, *Journal of Geometry and Physics*, 56 (2006), 2279-2288.
- 33.** M. Djorić, M. Okumura, Certain contact submanifolds of complex space forms, Proceedings of the Conference Contemporary Geometry and Related Topics, Belgrade, Serbia and Montenegro, June 26-July 2, 2005, (editors N. Bokan, M. Djorić, A. T. Fomenko, Z. Rakić, B. Wegner, J. Wess), (2006), 157-176.
- 34.** M. Djorić, M. Okumura, Certain condition on the second fundamental form of CR submanifolds of maximal CR dimension of complex Euclidean space, *Annals of Global Analysis and Geometry*, 30 (2006), 383-396.
- 35.** M. Djorić, M. Okumura, Certain condition on the second fundamental form of CR submanifolds of maximal CR dimension of complex Euclidean space and of complex projective space, Proceedings of the 2006 International Workshop on differential geometry, (Global Analysis of Real and Complex Manifolds), Cheju National University, August 17-19, 2006, (editors J. S. Pak, B. H. Kim, S. D. Jung), (ABRL: R14-2002-003-02003-0), (2006), 1-8.
- 36.** M. Antić, M. Djorić, L. Vrancken, Four dimensional minimal CR submanifolds in S^6 satisfying Chen's equality, *Differential Geometry and its Applications*, Vol. 25(3) (2007), 290-298.
- 37.** M. Djorić, M. Okumura, On second fundamental form of CR submanifolds of maximal CR dimension in complex space forms, Proceedings of the "Symposium on the differential geometry of Submanifolds", Université de Valenciennes, July 3-7, 2007, (editors F. Dillen, U. Simon, L. Vrancken), (2007), 67-76.
- 38.** M. Djorić, M. Okumura, Certain CR submanifolds of maximal CR dimension of complex space forms, *Differential Geometry and its Applications*, 26/2, (2008), 208-217.
- 39.** M. Djorić, M. Okumura, The scalar curvature of CR submanifolds of maximal CR dimension of complex projective space, *Monatshefte fur Mathematik*, 154 (2008), 11-17.
- 40.** M. Djorić, M. Okumura, Certain condition on the second fundamental form of CR submanifolds of maximal CR dimension of complex projective space, *Israel Journal of Mathematics*, 169 (2009), 47-59.

41. M. Djorić, L. Vrancken, Three-dimensional CR submanifolds in the nearly Kähler 6-sphere with one dimensional nullity, *International Journal of Mathematics*, Vol. 20, No. 2 (2009) 189-208.
42. M. Djorić, Codimension reduction and second fundamental form of CR submanifolds in complex space forms, *Journal of Mathematical Analysis and Applications*, 356 (2009), 237-241.
43. M. Djorić, L. Vrancken, On J-parallel totally real three-dimensional submanifolds of $S^6(1)$, *Journal of Geometry and Physics*, 60, (2010), 175-181.
44. M. Djorić, L. Vrancken, Geometric conditions on three dimensional CR submanifolds in S^6 , *Advances in Geometry*, 10, (2010), 185-196.
45. M. Djorić, M. Okumura, Invariant submanifolds of real hypersurfaces of complex manifolds, *Mediterranean Journal of Mathematics*, Vol. 8, No. 1, (2011), pp. 37-47.
46. M. Djorić, M. Okumura, Certain condition on the second fundamental form of CR submanifolds of maximal CR dimension of complex hyperbolic space, *Annals of Global Analysis and Geometry*, 39, (2011), 1-12.
47. O. Birembaux, M. Djorić, Isotropic affine spheres, *Acta Mathematica Sinica, English Series*, (2012) Vol. 28, No. 10, 1955-1972.
48. M. Djorić, M. Okumura, Real submanifolds of codimension two of a complex space form, *Differential Geometry and its Applications*, 31, (2013), 17-28.
49. M. Djorić, M. Okumura, Certain submanifolds of real codimension two of a complex projective space, *Journal of Mathematical Analysis and Applications* 429 (2015), pp. 532-541.

Monographs:

1. M. Djorić, M. Okumura, "CR submanifolds of complex projective space", *Developments in Mathematics*, vol. 19, Springer, Berlin, 2009, ISBN: 978-1-4419-0433-1.

Other publications:

1. M. Djorić, The problem of the shortest way as one of the extrem problems, *Mathematical Journal for Elementary School* XIX(6), 1985, 169-172.
2. M. Djorić and B. Djurdjevac, Puzzles in mathematics for amusement, *Mathematical Journal for Elementary School* XX(3), 1985, 94-96.
3. M. Djorić and B. Djurdjevac, Interesting problems connected with the number 1988, *Mathematical Journal for Elementary School* XXII(6), 1988, 6-8.
4. M. Djorić, Using Descartes coordinates in solving some planimetric problems (I), *Mathematical Journal for Elementary School* XXVI(5), 1992, 1-5.
5. M. Djorić, Using Descartes coordinates in solving some planimetric problems (II), *Mathematical Journal for Elementary School* XXVII(1), 1992, 1-5.
6. M. Djorić and O. Milenković, *Solved problems in analytic geometry*, Belgrade, 1995, Faculty of Mathematics 1999., 2000., 2002., 2004., 2007.
7. M. Miličić, B. Bajković, M. Djorić, M. Veljković, N. Lazarević, N. Ćirić, *Linear algebra and analytic geometry*, Belgrade, 1995.
8. M. Djorić, Rene Descartes (1596 – 1650), *Mathematical Journal for Elementary School* XXXI(1), 1996, 1-2.
9. V. Andrić, M. Djorić, M. Jovčić, D. Ljubić, Lj. Petković, V. Stojanović, *1000 solved problems from the competitions of elementary school pupils, period 1986 – 1995, 1988 – 1997, 1990 – 1999*, Yugoslav Mathematical Society, Belgrade, 1996, 1997, 1999, 2002, 2003.
10. Lj. Protić, M. Djorić, Milorad Bertolino, *Spomenica 125 godina Matematičkog fakulteta*, Faculty of Mathematics, Belgrade, 1998.
11. M. Djorić, D. Ljubić, *Analytic Geometry*, mimeographed notes, Faculty of Mathematics, Belgrade, 1999.
12. M. Djorić, G. Kalajdžić, *Foundations of Geometry*, mimeographed notes, Faculty of Mathematics, Belgrade, 2003.