Bibliografia

1. M. Abate and F. Tovena, *Curve e superfici*, Springer–Verlag, 2006.
2. _____, *Geometria differenziale*, Springer–Verlag, 2011.
3. G. Alberti, *Rank one property for derivatives of functions with bounded variation*, Proc. Roy. Soc. Edinburgh Sect. A **123** (1993), no. 2, 239–274.
4. _____, *On the structure of singular sets of convex functions*, Calc. Var. Partial Differential Equations **2** (1994), 17–27.
5. G. Alberti, L. Ambrosio, and P. Cannarsa, *On the singularities of convex functions*, Manuscripta Math. **76** (1992), 421–435.
6. A. D. Aleksandrov, *Uniqueness theorems for surfaces in the large. V*, Amer. Math. Soc. Transl. (2) **21** (1962), 412–416.
7. S. Alexander, V. Kapovitch, and A. Petrunin, *Alexandrov geometry: foundations*, ArXiv Preprint Server – http://arxiv.org, 2022.
8. L. Ambrosio, *A compactness theorem for a new class of functions of bounded variation*, Boll. Un. Mat. Ital. **3-B** (1989), 857–881.
9. _____, *Variational problems in SBV*, Acta Appl. Math. **17** (1989), 1–40.
10. _____, *Existence theory for a new class of variational problems*, Arch. Rat. Mech. Anal. **111** (1990), 291–322.
11. _____, *Calculus, heat flow and curvature–dimension bounds in metric measure spaces*, Proceedings of the International Congress of Mathematicians – Rio de Janeiro 2018. Vol. I. Plenary lectures, World Sci. Publ., Hackensack, NJ, 2018, pp. 301–340.
12. L. Ambrosio, P. Cannarsa, and H. M. Soner, *On the propagation of singularities of semi–convex functions*, Ann. Sc. Norm. Sup. Pisa **20 (4)** (1993), 597–616.
13. L. Ambrosio, N. Fusco, and D. Pallara, *Functions of bounded variation and free discontinuity problems*, Oxford University Press, 2000.
14. L. Ambrosio and C. Mantegazza, *Curvature and distance function from a manifold*, J. Geom. Anal. **8** (1998), no. 5, 723–748, Dedicated to the memory of Fred Almgren.
15. L. Ambrosio and H. M. Soner, *A level set approach to the evolution of surfaces of any codimension*, J. Diff. Geom. **43** (1996), 693–737.
16. F. Angrisani, G. Ascione, C. Leone, and C. Mantegazza, *Appunti di calcolo delle variazioni*, Amazon, 2019.
17. P. A. Ardoy and L. Guijarro, *Cut and singular loci up to codimension 3*, Ann. Inst. Fourier (Grenoble) **61** (2011), no. 4, 1655–1681 (2012).
18. R. Atkins, *When is a connection a metric connection?*, New Zealand J. Math. **38** (2008), 225–238.
19. T. Aubin, *Some nonlinear problems in Riemannian geometry*, Springer–Verlag, 1998.
20. M. Bačák, *Convex analysis and optimization in Hadamard spaces*, De Gruyter Series in Nonlinear Analysis and Applications, vol. 22, De Gruyter, Berlin, 2014.
21. D. Bakry, I. Ivan, and M. Ledoux, *Analysis and geometry of Markov diffusion operators*, Grundlehren der mathematischen Wissenschaften [Fundamental Principles of Mathematical Sciences], vol. 348, Springer, 2014.

22. M. Bardi and I. Capuzzo Dolcetta, *Optimal control and viscosity solutions of Hamilton–Jacobi–Bellman equations*, Systems & Control: Foundations & Applications, Birkhäuser Boston Inc., Boston, MA, 1997, With appendices by Maurizio Falcone and Pierpaolo Soravia.
23. R. Benedetti, *Lectures on differential topology*, Graduate Studies in Mathematics, vol. 218, American Mathematical Society, Providence, RI, 2021.
24. R. Benedetti and P. Lisca, *Framing 3–manifolds with bare hands*, Enseign. Math. **64** (2018), no. 3-4, 395–413.
25. R. Benedetti and C. Mantegazza, *The Poincaré conjecture and the Ricci flow*, Mat. Cult. Soc. Riv. Unione Mat. Ital. (I) **2** (2017), no. 3, 245–290.
26. S. Benvenuti, *Geometrie non euclidee*, Gli spilli, Alpha Test, 2008.
27. M. Berger, *An extension of Rauch's metric comparison theorem and some applications*, Illinois J. Math. **6** (1962), 700–712.
28. M. Berger, P. Gauduchon, and E. Mazet, *Le spectre d'une variété riemannienne*, Lecture Notes in Mathematics, Vol. 194, Springer–Verlag, Berlin–New York, 1971.
29. A. L. Besse, *Einstein manifolds*, Springer–Verlag, Berlin, 2008.
30. L. Bieberbach, *Über die Bewegungsgruppen der Euklidischen Räume*, Math. Ann. **70** (1911), no. 3, 297–336.
31. ———, *Über die Bewegungsgruppen der Euklidischen Räume (Zweite Abhandlung). Die Gruppen mit einem endlichen Fundamentalbereich*, Math. Ann. **72** (1912), no. 3, 400–412.
32. R. L. Bishop, *A relation between volume, mean curvature and diameter*, Notices of Amer. Math. Soc. **10** (1963), 364.
33. R. L. Bishop and R. J. Crittenden, *Geometry of manifolds*, Pure and Applied Mathematics, Vol. XV, Academic Press, New York-London, 1964.
34. R. L. Bishop and B. O'Neill, *Manifolds of negative curvature*, Trans. Amer. Math. Soc. **145** (1969), 1–49.
35. P. O. Bonnet, *Mémoire sur la théorie des surfaces applicables sur une surface donnée*, J. de l'École Polytechnique, Paris **24** (1865), 209–230.
36. ———, *Mémoire sur la théorie des surfaces applicables sur une surface donnée*, J. de l'École Polytechnique, Paris **25** (1867), 1–151.
37. W. M. Boothby, *An introduction to differential manifolds and Riemannian geometry*, Academic Press, London, 1975.
38. R. Bott and J. W. Milnor, *On the parallelizability of the spheres*, Bull. Amer. Math. Soc. **64** (1958), 87–89.
39. J.–P. Bourguignon and H. Karcher, *Curvature operators: pinching estimates and geometric examples*, Ann. Sci. École Norm. Sup. (4) **11** (1978), no. 1, 71–92.
40. M. R. Bridson and A. Haefliger, *Metric spaces of non–positive curvature*, Springer, 1999.
41. M. Buchner, *The structure of the cut–locus in dim ≤ 6*, Compositio Math. **37** (1978), 103–119.
42. M. Burago, Y. Burago, and S. Ivanov, *A course in metric geometry*, Graduate Studies in Mathematics, vol. 33, Amer. Math. Soc., Providence, RI, 2001.
43. E. Calabi, *An extension of E. Hopf's maximum principle with an application to Riemannian geometry*, Duke Math. J. **25** (1958), 45–56.
44. P. Cannarsa and H. M. Soner, *On the singularities of the viscosity solutions to Hamilton–Jacobi–Bellman equations*, Indiana Univ. Math. J. **36** (1987), 501–524.
45. E. Cartan, *La déformation des hypersurfaces dans l'espace conforme réel à $n \geq 5$ dimensions*, Bull. Soc. Math. France **45** (1917), 57–121.
46. M. Castelpietra and L. Rifford, *Regularity properties of the distance functions to conjugate and cut loci for viscosity solutions of Hamilton–Jacobi equations and applications in Riemannian geometry*, ESAIM Control Optim. Calc. Var. **16** (2010), no. 3, 695–718.

47. G. Catino and P. Mastrolia, *A perspective on canonical Riemannian metrics*, Progress in Mathematics, vol. 336, Birkhäuser/Springer, 2020.
48. I. Chavel, *Riemannian geometry. A modern introduction*, second ed., Cambridge Studies in Advanced Mathematics, vol. 98, Cambridge University Press, Cambridge, 2006.
49. J. Cheeger and D. G. Ebin, *Comparison theorems in Riemannian geometry*, Amer. Math. Soc., 2008.
50. J. Cheeger and D. Gromoll, *The splitting theorem for manifolds of nonnegative Ricci curvature*, J. Diff. Geom. **6** (1971/72), 119–128.
51. _____, *On the structure of complete manifolds of nonnegative curvature*, Ann. of Math. (2) **96** (1972), 413–443.
52. R. A. Chouikha, *Existence of metrics with harmonic curvature and non parallel Ricci tensor*, Balkan J. Geom. Appl. **8** (2003), no. 2, 21–30.
53. D. Codazzi, *Sulle coordinate curvilinee d'una superficie e dello spazio. I, II, III*, 1867–1871.
54. S. Cohn–Vossen, *Zwei Sätze über die Starrheit der Eiflächen*, Göttinger Nachrichten **36** (1927), 125–134.
55. R. Connelly, *A counterexample to the rigidity conjecture for polyhedra*, Inst. Hautes Études Sci. Publ. Math. (1977), no. 47, 333–338.
56. M. G. Crandall, H. Ishii, and P.-L. Lions, *User's guide to viscosity solutions of second order partial differential equations*, Bull. Amer. Math. Soc. **27/1** (1992), 1–67.
57. M. G. Crandall and P.-L. Lions, *Viscosity solutions of Hamilton–Jacobi equations*, Trans. Amer. Math. Soc. **277** (1983), 1–43.
58. M. Dafermos and I. Rodnianski, *Lectures on black holes and linear waves*, Evolution equations, Clay Math. Proc., vol. 17, Amer. Math. Soc., Providence, RI, 2013, pp. 97–205.
59. H. P. de Saint–Gervais, *Uniformization of Riemann surfaces. Revisiting a hundred–year–old theorem*, Heritage of European Mathematics, EMS, 2016.
60. M. Delfour and J.-P. Zolésio, *Shape analysis via oriented distance functions*, J. Funct. Anal. **123** (1994), 129–201.
61. _____, *Shape analysis via distance functions: local theory*, Boundaries, interfaces and transitions (M. Delfour, ed.), CRM Proc. Lect. Notes Ser., Amer. Math. Soc., 1998.
62. S. Della Corte, A. Diana, and C. Mantegazza, *Global existence and stability for the modified Mullins–Sekerka and surface diffusion flow*, Math. Eng. **4** (2022), no. 6, Paper No. 054, 104.
63. A. Derdzinski, *Classification of certain compact Riemannian manifolds with harmonic curvature and non parallel Ricci tensor*, Math. Z. **172** (1980), 277–280.
64. A. Derdzinski, F. Mercuri, and M. H. Noronha, *Manifolds with nonnegative pure curvature operator*, Bol. Soc. Bras. Mat. **18** (1987), 13–22.
65. M. P. do Carmo, *Differential geometry of curves and surfaces*, Prentice–Hall, Englewood Cliffs, New Jersey, 1976.
66. _____, *Riemannian geometry*, Birkhäuser, Boston, 1992.
67. M. P. do Carmo, M. Dajczer, and F. Mercuri, *Compact conformally flat hypersurfaces*, Trans. Amer. Math. Soc. **288** (1985), no. 1, 189–1203.
68. J. Dugundji, *Topology*, Allyn and Bacon, Boston, 1966.
69. P. Eberlein, *Geometry of nonpositively curved manifolds*, Chicago Lectures in Mathematics, University of Chicago Press, Chicago, IL, 1996.
70. P. Eberlein and B. O'Neill, *Visibility manifolds*, Pacific J. Math. **46** (1973), 45–109.
71. N. V. Efimov, *Generation of singularites on surfaces of negative curvature*, Mat. Sb. (N.S.) **64 (106)** (1964), 286–320.
72. G. F. R. Ellis and S. W. Hawking, *The large scale structure of space–time*, Cambridge University Press, London–New York, 1973, Cambridge Monographs on Mathematical Physics, No. 1.

73. M. Eminenti and C. Mantegazza, *Some properties of the distance function and a conjecture of De Giorgi*, J. Geom. Anal. **14** (2004), no. 2, 267–279.
74. Encyclopedia of Mathematics, *Weyl problem*, https://encyclopediaofmath.org/wiki/Weyl_problem, 2014.
75. ———, *Surface of negative curvature*, https://encyclopediaofmath.org/wiki/Negative_curvature,_surface_of, 2020.
76. J.-H. Eschenburg, *Comparison theorems and hypersurfaces*, Manuscripta Math. **59** (1987), no. 3, 295–323.
77. J.-H. Eschenburg and E. Heintze, *An elementary proof of the Cheeger–Gromoll splitting theorem*, Ann. Global Anal. Geom. **2** (1984), no. 2, 141–151.
78. ———, *Comparison theory for Riccati equations*, Manuscripta Math. **68** (1990), no. 2, 209–214.
79. L. C. Evans, *Partial differential equations*, Graduate Studies in Mathematics, vol. 19, Amer. Math. Soc., Providence, RI, 1998.
80. H. Federer, *Geometric measure theory*, Springer–Verlag, 1969.
81. A. Fialkow, *Hypersurfaces of a space of constant curvature*, Ann. of Math. (2) **39** (1938), no. 4, 762–785.
82. A. Figalli, L. Rifford, and C. Villani, *Necessary and sufficient conditions for continuity of optimal transport maps on Riemannian manifolds*, Tohoku Math. J. **63** (2011), no. 4, 855–876.
83. J. Gallier and D. Xu, *A guide to the classification theorem for compact surfaces*, Geometry and Computing, vol. 9, Springer, Heidelberg, 2013.
84. S. Gallot, D. Hulin, and J. Lafontaine, *Riemannian geometry*, third ed., Universitext, Springer–Verlag, Berlin, 2004.
85. J. O. Garay, *A classification of certain 3-dimensional conformally flat Euclidean hypersurfaces*, Pacific J. Math. **162** (1994), no. 1, 13–25.
86. M. Giaquinta and S. Hildebrandt, *Calculus of variations. I*, Grundlehren der Mathematischen Wissenschaften, vol. 310, Springer–Verlag, Berlin, 1996.
87. N. Gigli, K. Kuwada, and S.-I. Ohta, *Heat flow on Alexandrov spaces*, Comm. Pure Appl. Math. **66** (2013), no. 3, 307–331.
88. D. Gilbarg and N. S. Trudinger, *Elliptic partial differential equations of second order*, Springer–Verlag, 1983.
89. V. Gimeno, *Lower bounds for the volume with upper bounds for the Ricci curvature in dimension three*, Bull. London Math Soc. **53** (2021), 194–203.
90. E. Giusti, *Minimal surfaces and functions of bounded variation*, Monographs in Math., vol. 80, Birkhäuser, Boston, 1984.
91. A. R. Gover and P. Nurowski, *Obstructions to conformally Einstein metrics in n dimensions*, J. Geom. Phys. **56** (2006), no. 3, 450–484.
92. J. E. Graver, *Counting on frameworks*, The Dolciani Mathematical Expositions, vol. 25, Mathematical Association of America, Washington, DC, 2001.
93. A. Gray, *Tubes*, second ed., Progress in Mathematics, vol. 221, Birkhäuser Verlag, Basel, 2004, With a preface by Vicente Miquel.
94. A. Gray and L. Vanhecke, *Riemannian geometry as determined by the volumes of small geodesic balls*, Acta Math. **142** (1979), no. 3-4, 157–198.
95. J. Gray, *On the history of the Riemann mapping theorem*, Rend. Circ. Mat. Palermo (2) Suppl. (1994), no. 34, 47–94.
96. C. Greenhill, *An algorithm for recognising the exterior square of a matrix*, Linear and Multilinear Algebra **46** (1999), no. 3, 213–244.
97. A. Grigor'yan, *Heat kernel and analysis on manifolds*, AMS/IP Studies in Advanced Mathematics, vol. 47, Amer. Math. Soc., Providence, RI; International Press, Boston, MA, 2009.

98. D. Gromoll and W. Meyer, *On complete open manifolds of positive curvature*, Ann. of Math. (2) **90** (1969), 75–90.
99. M. Gromov, *Structures métriques pour les variétés riemanniennes*, Textes Mathématiques [Mathematical Texts], vol. 1, CEDIC, Paris, 1981, Edited by J. Lafontaine and P. Pansu.
100. P. Günther, *Einige Sätze über das Volumenelement eines Riemannschen Raumes*, Publ. Math. Debrecen **7** (1960), 78–93.
101. J. Hadamard, *Sur certaines proprietés des trajectoires en dynamique*, J. Math. Pures Appl. **3** (1897), 331–387.
102. Q. Han and J.-X. Hong, *Isometric embedding of Riemannian manifolds in Euclidean spaces*, Mathematical Surveys and Monographs, vol. 130, American Mathematical Society, Providence, RI, 2006.
103. Q. Han, J.-X. Hong, and C.-S. Lin, *Local isometric embedding of surfaces with nonpositive Gaussian curvature*, J. Differential Geom. **63** (2003), no. 3, 475–520.
104. J. Harper and M. J. Greenberg, *Algebraic topology: A first course*, Mathematics Lecture Note Series, vol. 58, The Benjaming/Cummings Publishing Company, 1981.
105. A. Hatcher, *Algebraic topology*, Cambridge University Press, Cambridge, 2002.
106. E. Heintze and H. Karcher, *A general comparison theorem with applications to volume estimates for submanifolds*, Ann. Sci. École Norm. Sup. (4) **11** (1978), no. 4, 451–470.
107. D. Hilbert, *Ueber Flächen von constanter Gaussscher Krümmung*, Trans. Amer. Math. Soc. **2** (1901), no. 1, 87–99.
108. N. Hitchin, *Compact four-dimensional Einstein manifolds*, J. Differential Geometry **9** (1974), 435–441.
109. J. Hong, *Some new developments of realization of surfaces into* $\mathbb{R}^3$, Proc. Int. Cong. Math., 2002, pp. 155–165.
110. R. A. Horn and C. R. Johnson, *Topics in matrix analysis*, Cambridge University Press, Cambridge, 1994.
111. R. Howard, *Riemannian manifolds without conjugate points: a lecture on a theorem of Hopf and Green*, http://people.math.sc.edu/howard/Notes/hopf_note.pdf, 1994.
112. H. Ishii, *On the equivalence of two notions of weak solutions, viscosity solutions and distribution solutions*, Funkcial. Ekvac. **38** (1995), no. 1, 101–120.
113. J. Itoh and M. Tanaka, *The Lipschitz continuity of the distance function to the cut locus*, Trans. Amer. Math. Soc. **353** (2001), no. 1, 21–40.
114. R. Kobayashi, *Moduli of Einstein metrics on a* $K3$ *surface and degeneration of type* I, Kähler metric and moduli spaces, Adv. Stud. Pure Math., vol. 18, Academic Press, Boston, MA, 1990, pp. 257–311.
115. S. Kobayashi and K. Nomizu, *Foundations of differential geometry. Vol. I*, Wiley Classics Library, John Wiley & Sons Inc., New York, 1996.
116. ———, *Foundations of differential geometry. Vol. II*, Wiley Classics Library, John Wiley & Sons Inc., New York, 1996.
117. C. N. Kozameh, E. T. Newman, and K. P. Tod, *Conformal Einstein spaces*, Gen. Relativity Gravitation **17** (1985), no. 4, 343–352.
118. U. Lang, *Length Spaces*, https://people.math.ethz.ch/∼lang/LengthSpaces.pdf, 2013.
119. H. B. Lawson, Jr., *Local rigidity theorems for minimal hypersurfaces*, Ann. of Math. (2) **89** (1969), 187–197.
120. J. M. Lee, *Manifolds and differential geometry*, Graduate Studies in Mathematics, vol. 107, American Mathematical Society, Providence, RI, 2009.
121. J. M. Lee, *Introduction to Riemannian manifolds*, Graduate Texts in Mathematics, vol. 176, Springer, 2018, Second edition.
122. Y. Li and L. Nirenberg, *The distance function to the boundary, Finsler geometry, and the singular*

set of viscosity solutions of some Hamilton–Jacobi equations, Comm. Pure Appl. Math. **58** (2005), no. 1, 85–146.
123. E. L. Lima, *Fundamental groups and covering spaces*, A K Peters, Ltd., Natick, MA, 2003, Translated from the Portuguese by Jonas Gomes.
124. P.-L. Lions, *Generalized solutions of Hamilton–Jacobi equations*, Pitman, Boston, 1982.
125. ———, *Optimal control of diffusion processes and Hamilton–Jacobi–Bellman equations. II. Viscosity solutions and uniqueness*, Comm. Partial Differential Equations **8** (1983), no. 11, 1229–1276.
126. J. Lohkamp, *Metrics of negative Ricci curvature*, Ann. of Math. (2) **140** (1994), no. 3, 655–683.
127. J. Lott and C. Villani, *Ricci curvature for metric–measure spaces via optimal transport*, Ann. of Math. (2) **169** (2009), no. 3, 903–991.
128. G. Mainardi, *Su la teoria generale delle superfici*, Giornale dell'I. R. Lombardo di Scienze, Lettere ed Arti **9** (1856), 385–399.
129. C. Mancinelli, M. Livesu, and E. Puppo, *Practical computation of the cut locus on discrete surfaces*, Computer Graphics Forum **40** (2021), no. 5, 261–273.
130. C. Mantegazza, *Notes on the distance function from a submanifold*, CvGmt Preprint Server – http://cvgmt.sns.it, 2010.
131. ———, *Lecture notes on mean curvature flow*, Progress in Mathematics, vol. 290, Birkhäuser/Springer Basel AG, Basel, 2011.
132. ———, *Smooth geometric evolutions of hypersurfaces and singular approximation of mean curvature flow*, Ph.D. thesis, Scuola Normale Superiore di Pisa, 2014.
133. C. Mantegazza, G. Mascellani, and G. Uraltsev, *On the distributional Hessian of the distance function*, Pacific J. Math. **270** (2014), no. 1, 151–166.
134. C. Mantegazza and A. C. Mennucci, *Hamilton–Jacobi equations and distance functions on Riemannian manifolds*, Appl. Math. Opt. **47** (2003), no. 1, 1–25.
135. W. S. Massey, *Algebraic topology: an introduction*, Springer–Verlag, New York–Heidelberg, 1977, Reprint of the 1967 edition, Graduate Texts in Mathematics, Vol. 56.
136. ———, *A basic course in algebraic topology*, Graduate Texts in Mathematics, vol. 127, Springer–Verlag, New York, 1991.
137. MathOverflow, *Positive sectional curvature does not imply positive definite curvature operator?*, https://mathoverflow.net/q/264896, 2017.
138. F. Mercuri and P. Piccione, *On the closed geodesic problem*, São Paolo J. Math. Sci. **2** (2008), no. 1, 223–237.
139. J. W. Milnor, *Morse theory*, Princeton University Press, Princeton, N. J., 1963.
140. T. K. Milnor, *Efimov's theorem about complete immersed surfaces of negative curvature*, Advances in Math. **8** (1972), 474–543.
141. Olaf Müller, *A note on closed isometric embeddings*, J. Math. Anal. Appl. **349** (2009), no. 1, 297–298.
142. S. B. Myers, *Connections between differential geometry and topology*, Duke Math. J. **1** (1935), 376–391.
143. ———, *Connections between differential geometry and topology II*, Duke Math. J. **2** (1936), 95–102.
144. S. B. Myers and N. E. Steenrod, *The group of isometries of a Riemannian manifold*, Ann. of Math. (2) **40** (1939), no. 2, 400–416.
145. N. Nadirashvili and Y. Yuan, *Improving Pogorelov's isometric embedding counterexample*, Calc. Var. Partial Differential Equations **32** (2008), no. 3, 319–323.
146. S. Nishikawa and Y. Maeda, *Conformally flat hypersurfaces in a conformally flat Riemannian manifold*, Tohoku Math. J. (2) **26** (1974), 159–168.

147. M. Obata, *Certain conditions for a Riemannian manifold to be isometric with a sphere*, J. Math. Soc. Japan **14** (1962), 333–340.
148. R. Osserman, *A survey of minimal surfaces*, second ed., Dover Publications, Inc., New York, 1986.
149. P. Petersen, *Riemannian geometry*, Graduate Texts in Mathematics, vol. 171, Springer, New York, 1998.
150. _____, *Riemannian geometry*, second ed., Graduate Texts in Mathematics, vol. 171, Springer, New York, 2006.
151. _____, *Riemannian geometry*, third ed., Graduate Texts in Mathematics, vol. 171, Springer, New York, 2016.
152. K. M. Peterson, *Über die Biegung der Flächen*, Ph.D. thesis, Doctoral Thesis, Dorpat Univ., 1853.
153. L. C. Piccinini, G. Stampacchia, and G. Vidossich, *Equazioni differenziali ordinarie in* $\mathbf{R}^n$ *(problemi e metodi)*, Serie di Matematica e Fisica, Liguori Editore, Napoli, 1979.
154. C. Pignotti, *Rectifiability results for singular and conjugate points of optimal exit time problems*, J. Math. Anal. Appl. **270** (2002), no. 2, 681–708.
155. È. G. Poznjak, *Isometric imbedding of two–dimensional Riemannian metrics in Euclidean spaces*, Uspehi Mat. Nauk **28** (1973), no. 4(172), 47–76.
156. M. H. Protter and H. F. Weinberger, *Maximum principles in differential equations*, Springer–Verlag, New York, 1984.
157. H. E. Rauch, *A contribution to differential geometry in the large*, Ann. of Math. (2) **54** (1951), 38–55.
158. W. Rudin, *Real and complex analysis*, McGraw Hill, New York, 1966.
159. _____, *Functional analysis*, second ed., International Series in Pure and Applied Mathematics, McGraw–Hill, Inc., New York, 1991.
160. P. J. Ryan, *Homogeneity and some curvature conditions for hypersurfaces*, Tohoku Math. J. (2) **21** (1969), 363–388.
161. I. Kh. Sabitov, *Local theory of bendings of surfaces*, Geometry, III, Encyclopaedia Math. Sci., vol. 48, Springer, Berlin, 1992, pp. 179–256.
162. T. Sakai, *Riemannian geometry*, Amer. Math. Soc., 1996.
163. L. Simon, *Lectures on geometric measure theory*, Proc. Center Math. Anal., vol. 3, Australian National University, Canberra, 1983.
164. J. Simons, *Minimal varieties in Riemannian manifolds*, Ann. of Math. (2) **88** (1968), 62–105.
165. D. H. Singley, *Smoothness theorems for the principal curvatures and principal vectors of a hypersurface*, Rocky Mountain J. Math. **5** (1975), 135–144.
166. M. Spivak, *A comprehensive introduction to differential geometry (5 volumes)*, second ed., Publish or Perish, Inc., Wilmington, Del., 1979.
167. S. Steiner, E. Teufel, and J. Vilms, *On the Gauss equation of an isometric immersion*, Duke Math. J. **51** (1984), no. 2, 421–430.
168. J. J. Stoker, *Über die Gestalt der positiv gekrümmten offenen Flächen im dreidimensionalen Raume*, Compositio Math. **3** (1936), 55–88.
169. M. Struwe, *Variational methods*, Springer–Verlag, Berlin, 1990.
170. K.-T. Sturm, *On the geometry of metric measure spaces. I*, Acta Math. **196** (2006), no. 1, 65–131.
171. _____, *On the geometry of metric measure spaces. II*, Acta Math. **196** (2006), no. 1, 133–177.
172. T. Y. Thomas, *Riemann spaces of class one and their characterization*, Acta Math. **67** (1936), no. 1, 169–211.
173. C. Thomassen, *The Jordan–Schönflies theorem and the classification of surfaces*, Amer. Math. Monthly **99** (1992), no. 2, 116–130.

174. W. P. Thurston, *Three–dimensional manifolds, Kleinian groups and hyperbolic geometry*, Bull. Amer. Math. Soc. (N.S.) **6** (1982), no. 3, 357–381.
175. J. Vilms, *Local isometric imbedding of Riemannian n–manifolds into Euclidean $(n+1)$–space*, J. Differential Geometry **12** (1977), no. 2, 197–202.
176. ———, *Factorization of curvature operators*, Trans. Amer. Math. Soc. **260** (1980), no. 2, 595–605.
177. F. W. Warner, *Extensions of the Rauch comparison theorem to submanifolds*, Trans. Amer. Math. Soc. **122** (1966), 341–356.
178. ———, *Foundations of differentiable manifolds and Lie groups*, Springer, 1983.
179. A. Weinstein, *The cut–locus and conjugate points of a Riemannian manifold*, Ann. of Math. (2) **68** (1987), 29–41.
180. H. Weyl, *On the Volume of Tubes*, Amer. J. Math. **61** (1939), no. 2, 461–472.
181. Wikipedia, *Spazio lenticolare*, https://it.wikipedia.org/wiki/Spazio_lenticolare, 2018.
182. ———, *Tullio Levi–Civita*, https://it.wikipedia.org/wiki/Tullio_Levi-Civita, 2018.
183. ———, *Bernhard Riemann*, https://it.wikipedia.org/wiki/Bernhard_Riemann, 2019.
184. ———, *Congettura di geometrizzazione di Thurston*, https://it.wikipedia.org/wiki/Congettura_di_geometrizzazione_di_Thurston, 2019.
185. ———, *Einstein tensor*, https://en.wikipedia.org/wiki/Einstein_tensor, 2019.
186. ———, *Gregorio Ricci Curbastro*, https://it.wikipedia.org/wiki/Gregorio_Ricci_Curbastro, 2019.
187. ———, *Hermann Weyl*, https://it.wikipedia.org/wiki/Hermann_Weyl, 2019.
188. ———, *Jean–Louis Koszul*, https://en.wikipedia.org/wiki/Jean-Louis_Koszul, 2019.
189. ———, *Luigi Bianchi*, https://it.wikipedia.org/wiki/Luigi_Bianchi, 2019.
190. ———, *Metrica intrinseca*, https://it.wikipedia.org/wiki/Metrica_intrinseca, 2019.
191. ———, *Nash embedding theorem*, https://en.wikipedia.org/wiki/Nash_embedding_theorem, 2019.
192. ———, *Theorem of the three geodesics*, https://en.wikipedia.org/wiki/Theorem_of_the_three_geodesics, 2019.
193. ———, *Whitney embedding theorem*, https://en.wikipedia.org/wiki/Whitney_embedding_theorem, 2019.
194. ———, *Hilbert's theorem (differential geometry)*, https://en.wikipedia.org/wiki/Hilbert's_theorem_(differential_geometry), 2020.
195. ———, *Pullback bundle*, https://en.wikipedia.org/wiki/Pullback_bundle, 2020.
196. ———, *Hopf fibration*, https://en.wikipedia.org/wiki/Hopf_fibration, 2021.
197. ———, *K3 surface*, https://en.wikipedia.org/wiki/K3_surface, 2021.
198. ———, *Klein bottle*, https://en.wikipedia.org/wiki/Klein_bottle, 2021.
199. ———, *Minimal surface*, https://en.wikipedia.org/wiki/Minimal_surface, 2021.
200. ———, *Pierre Ossian Bonnet*, https://en.wikipedia.org/wiki/Pierre_Ossian_Bonnet, 2021.
201. ———, *Ricci flow*, https://en.wikipedia.org/wiki/Ricci_flow, 2021.
202. ———, *Uniformization theorem*, https://en.wikipedia.org/wiki/Uniformization_theorem, 2021.
203. ———, *Yamabe problem*, https://en.wikipedia.org/wiki/Yamabe_problem, 2021.
204. ———, *Beltrami–Klein model*, https://en.wikipedia.org/wiki/Beltrami-Klein_model, 2022.
205. ———, *Cartan–Hadamard_conjecture*, https://en.wikipedia.org/wiki/Cartan-Hadamard_conjecture, 2022.
206. ———, *Constant–mean–curvature surface*, https://en.wikipedia.org/wiki/Constant-mean-curvature_surface, 2022.
207. ———, *Eugenio Beltrami*, https://it.wikipedia.org/wiki/Eugenio_Beltrami, 2022.
208. ———, *Felix Klein*, https://it.wikipedia.org/wiki/Felix_Klein, 2022.

209. _____, *Georg Simon Klügel*, https://en.wikipedia.org/wiki/Georg_Simon_Klügel, 2022.
210. _____, *Giovanni Girolamo Saccheri*, https://it.wikipedia.org/wiki/Giovanni_Girolamo_Saccheri, 2022.
211. _____, *János Bolyai*, https://it.wikipedia.org/wiki/János_Bolyai, 2022.
212. _____, *Nikolai Lobachevsky*, https://en.wikipedia.org/wiki/Nikolai_Lobachevsky, 2022.
213. _____, *Superficie di Dini*, https://it.wikipedia.org/wiki/Superficie_di_Dini, 2022.
214. _____, *Teorema del confronto di Sturm–Picone*, https://it.wikipedia.org/wiki/Teorema_del_confronto_di_Sturm-Picone, 2022.
215. J. A. Wolf, *Spaces of constant curvature*, sixth ed., Amer. Math. Soc., Providence, RI, 2011.
216. W. Ziller, *Examples of Riemannian manifolds with non–negative sectional curvature*, Surveys in differential geometry. Vol. XI, Surv. Differ. Geom., vol. 11, Int. Press, Somerville, MA, 2007, pp. 63–102.