

Publications of Francesco S. De Blasi

1. Daniell's method in the theory of the Aumann-Hukuhara integral of set-valued functions (with A. Lasota), *Atti Accad. Naz. Lincei, VIII. Ser., Rend., Cl. Sci. Fis. Mat. Nat.* **45**, 252-256 (1968).
2. Equazioni differenziali con soluzioni a valore compatto convesso (with F. Iervolino), *Boll. Unione Mat. Ital., IV. Ser.* **2**, 491-501 (1969).
3. Characterization of the integral of set-valued functions (with A. Lasota), *Atti Accad. Naz. Lincei, VIII. Ser., Rend., Cl. Sci. Fis. Mat. Nat.* **46**, 154-157 (1969).
4. On the existence of optimal controls (with A. J. B. Lopes Pinto), *J. Optimization Theory Appl.* **6**, 237-251, 1970.
5. Uniqueness and existence theorems for differential equations with compact convex valued solutions. (with A. J. B. Lopes Pinto and F. Iervolino), *Boll. Un. Mat. Ital.* (4) **3** 1970 47-54.
6. Euler method for differential equations with set-valued solutions (with F. Iervolino), *Boll. Unione Mat. Ital., IV. Ser.* **4**, 941-949 (1971).
7. Stability of multivalued discrete dynamical systems (with J. Schinas), *J. Differ. Equations* **14**, 245-262 (1973).
8. On the stable manifold theorem for discrete time dependent processes in Banach spaces (with J. Schinas), *Bull. Lond. Math. Soc.* **5**, 275-282 (1973).
9. Exponential stability of difference equations which cannot be linearized (with J. Schinas), *Atti Accad. Naz. Lincei, VIII. Ser., Rend., Cl. Sci. Fis. Mat. Nat.* **54**, 16-21 (1973).
10. Fixed points for mappings which are not necessarily continuous, *Atti Accad. Naz. Lincei, VIII. Ser., Rend., Cl. Sci. Fis. Mat. Nat.* **54**(1973), 745-749 (1974).

11. On the implicit function theorem in metric spaces. *Atti Accad. Naz. Lincei, VIII. Ser., Rend., Cl. Sci. Fis. Mat. Nat.* **54**(1973), 877-881 (1974).
12. Fixed points for Kannan's mappings in Hilbert spaces. *Boll. Unione Mat. Ital., IV. Ser.* **9**, 818-823 (1974).
13. On the stability of difference equations in Banach spaces (with J. Schinas), *An. Stiint. Univ. Al. I. Cuza Iasi, n. Ser., Sect. Ia* **20**, 65-80 (1974).
14. Compactness gauges and fixed points. *Atti Accad. Naz. Lincei, VIII. Ser., Rend., Cl. Sci. Fis. Mat. Nat.* **57**(1974), 170-176 (1975).
15. Sur la convergence des approximations successives pour les contractions non linéaires dans un espace de Banach (with J. Myjak), *C. R. Acad. Sci., Paris, Sér. A* **283**, 185-187 (1976).
16. On the differentiability of multifunctions. *Pacific J. Math.* **66**, 67-81 (1976).
17. The Lyapunov theorem on the behavior of solutions of a nonautonomous differential system in a neighborhood of a periodic solution with corresponding multivalued variational equation (with J. Schinas), *J. Differ. Equations* **22**, 180-192 (1976).
18. Existence and stability of solutions for autonomous multivalued differential equations in Banach space. *Atti Accad. Naz. Lincei, VIII. Ser., Rend., Cl. Sci. Fis. Mat. Nat.* **60**, 767-774 (1976).
19. Generic properties of hyperbolic partial differential equations. (with J. Myjak), *J. Lond. Math. Soc., II. Ser.* **15**, 113-118 (1977).
20. On generic asymptotic stability of differential equations in Banach space. (with J. Myjak), *Proc. Am. Math. Soc.* **65**, 47-51 (1977).
21. On a property of the unit sphere in a Banach space. *Bull. Math. Soc. Sci. Math. Répub. Soc. Roum., Nouv. Sér.* **21**(69), 259-262 (1977).
22. Two density properties of ordinary differential equations. (with J. Myjak), *Atti Accad. Naz. Lincei, VIII. Ser., Rend., Cl. Sci. Fis. Mat. Nat.* **61**(1976), 387-391 (1977).
23. La convergence des approximations successives pour les équations différentielles dans les espaces de Banach est une propriété generique. (with J. Myjak), *C. R. Acad. Sci., Paris, Sér. A* **286**, 29-31 (1978).

24. Quelques propriétés génériques des équations différentielles dans les espaces de Banach. (with J. Myjak), *C. R. Acad. Sci., Paris, Sér. A*, **287**, 511-513 (1978).
25. Generic properties of differential equations in a Banach space. (with J. Myjak), *Bull. Acad. Pol. Sci., Sér. Sci. Math. Astron. Phys.* **26**, 395-400 (1978).
26. The generic property of existence of solutions for a class of multivalued differential equations in Hilbert spaces (with J. Myjak), *Funkc. Ekvacioj, Ser. Int.* **21**, 271-278 (1978).
27. Generic properties of functional equations. (with M. Kwapisz and J. Myjak), *Nonlinear Anal., Theory Methods Appl.* **2**, 239-249 (1978).
28. Some generic properties in fixed point theory, *J. Math. Anal. Appl.* **71**, 161-166 (1979).
29. Generic properties of contraction semigroups and fixed points of nonexpansive operators. (with J. Myjak), *Proc. Am. Math. Soc.* **77**, 341-347 (1979).
30. Presque tout opérateurs monotones admettent un équilibre asymptotique. (with J. Myjak), *Zesz. Nauk. Akad. Gorn.-Hutn. Stanislaw Staszic 730, Mat. Fiz. Chem.* **42**, 13-17 (1979).
31. Some generic properties of functional differential equations in Banach spaces. (with J. Myjak), *J. Math. Anal. Appl.* **67**, 437-451 (1979).
32. Generic properties for some classes of operator equations. *J. Lond. Math. Soc., II. Ser.* **23**, 321-328 (1981).
33. On the minimum distance theorem to a closed convex set in a Banach space. (with J. Myjak), *Bull. Acad. Pol. Sci., Sér. Sci. Math.* **29**, 373-376 (1981).
34. Random differential equations on closed subsets of a Banach space. (with J. Myjak), *J. Math. Anal. Appl.* **90**, 273-285 (1982).
35. A Baire category approach to the existence of solutions of multivalued differential equations in Banach spaces. (with G. Pianigiani), *Funkc. Ekvacioj, Ser. Int.* **25**, 153-162 (1982).
36. Characteristic exponents and some applications to differential equations. (with M. A. Boudourides), *Proc. Am. Math. Soc.*, **86**, 464-470 (1982).
37. A remark on the definition of topological degree for set-valued mappings. (with J. Myjak), *J. Math. Anal. Appl.* **92**, 445-451 (1983).

38. Sur l'existence de selections continues. (with J. Myjak), *C. R. Acad. Sci., Paris, Sér. I*, **296**, 737-739 (1983).
39. Orlicz type category results for differential equations in Banach spaces. (with J. Myjak), *Ann. Soc. Math. Pol., Ser. I, Commentat. Math.* **23**, 193-197 (1983).
40. Remarks on Hausdorff continuous multifunction and selections. (with G. Pianigiani), *Commentat. Math. Univ. Carol.* **24**, 553-561 (1983).
41. Generic flows generated by continuous vector fields in Banach spaces. (with J. Myjak), *Advances Math.* **50**, 266-280 (1983).
42. On the nonexistence of solutions for random differential equations in Banach spaces. (with J. Myjak), *Stochastic Anal. Appl.* **2**, 107-119 (1984).
43. Some generic properties in convex and non-convex optimization theory. (with J. Myjak), *Ann. Soc. Math. Pol., Ser. I, Commentat. Math.* **24**, 1-14 (1984).
44. On almost well posed problems in the theory of best approximation (with J. Myjak), *Bull. Math. Soc. Sci. Math. Répub. Soc. Roum., Nouv. Sér.* 28(76), 109-117 (1984).
45. Continuous selections for weakly Hausdorff lower semicontinuous multifunctions. (with J. Myjak), *Proc. Am. Math. Soc.* **93**, 369-372 (1985).
46. On the solutions sets for differential inclusions. (with J. Myjak), *Bull. Pol. Acad. Sci., Math.* **33**, 17-23 (1985).
47. Characterizations of certain classes of semicontinuous multifunctions by continuous approximations. *J. Math. Anal. Appl.* **106**, 1-18 (1985).
48. The Baire category method in existence problems for a class of multivalued differential equations with nonconvex right hand side. (with G. Pianigiani), *Funkc. Ekvacioj, Ser. Int.* **28**, 139-156 (1985).
49. On the structure of the set of solutions of the Darboux problem for hyperbolic equations. (with J. Myjak), *Proc. Edinb. Math. Soc., II. Ser.* 29, 7-14 (1986).
50. On continuous approximations for multifunctions. (with J. Myjak), *Pacific J. Math.* **123**, 9-31 (1986).
51. On the set of solutions of a differential inclusion. (with J. Myjak), *Bull. Inst. Math., Acad. Sin.* **14**, 271-275 (1986).

52. Uniqueness for differential equations implies continuous dependence only in finite dimension. (with G. Pianigiani), *Bull. Lond. Math. Soc.* 18, 379-382 (1986).
53. Weak convergence of convex sets in Banach spaces. (with J. Myjak), *Arch. Math.* 47, 448-456 (1986).
54. Differential inclusions in Banach spaces. (with G. Pianigiani), *J. Differ. Equations* 66, 208-229 (1987).
55. Random differential inclusions with nonconvex right hand side. (with J. Myjak), *Funkc. Ekvacioj, Ser. Int.* 30, 1-8 (1987).
56. On the random Dugundji extension theorem. (with J. Myjak), *J. Math. Anal. Appl.* 128, 305-311 (1987).
57. Sur la porosité de l'ensemble des contractions sans point fixe. (On the porosity of the set of contractions without fixed points). (with J. Myjak), *C. R. Acad. Sci., Paris, Sér. I* 308, No.2, 51-54 (1989).
58. Ensembles poreux dans la théorie de la meilleure approximation. (Porous sets in best approximation theory). (with J. Myjak), *C. R. Acad. Sci., Paris, Sér. I* 308, No.12, 353-356 (1989).
59. Sur les inclusions différentielles à valeurs non convexes. (On nonconvex valued differential inclusions). With G. Pianigiani), *C. R. Acad. Sci., Paris, Sér. I*, 310, No.7, 583-586 (1990).
60. Sur le prolongement des multifonctions séparément mesurables et séparément continues. (On the extension of separably measurable and separably continuous multifunctions.). (with J. Myjak), *Boll. Unione Mat. Ital., VII. Ser., A* 4, No.2, 235-242 (1990).
61. Some remarks on random difference equations. (with J. Myjak), *Zesz. Nauk. Akad. Gór.-Hutn. Stanisł. Staszica 1335, Opusc. Math.* 6, 29-39 (1990).
62. Non-convex-valued differential inclusions in Banach spaces. (with G. Pianigiani), *J. Math. Anal. Appl.* 157, No.2, 469-494 (1991).
63. Starshaped sets and best approximation. (with J. Myjak, P.L. Papini), *Arch. Math.* 56, No.1, 41-48 (1991).
64. Porous sets in best approximation theory. (with J. Myjak and P. L. Papini), *J. Lond. Math. Soc., II. Ser.* 44, No.1, 135-142 (1991).

65. Ambiguous loci in best approximation theory (with J. Myjak), Approximation theory, spline functions and applications, *Proc. NATO Adv. Study Inst., Maratea/Italy 1991, NATO ASI Ser., Ser. C*, **356**, 341-349 (1992).
66. On the density of extremal solutions of differential inclusions. (with G. Pianigiani), *Ann. Pol. Math.* **56**, No.2, 133-142 (1992).
67. On mutually nearest and mutually furthest points of sets in Banach spaces. (with J. Myjak, P.L. Papini), *J. Approximation Theory* **70**, No.2, 142-155 (1992).
68. Topological properties of nonconvex differential inclusions. (with G. Pianigiani), *Nonlinear Anal., Theory Methods Appl.* **20**, No.7, 871-894 (1993).
69. Solution sets of boundary value problems for nonconvex differential inclusions. (with G. Pianigiani), *Topol. Methods Nonlinear Anal.* **1**, No. 2, 303-313 (1993).
70. Some properties of supporting hyperplanes to compact sets in Banach spaces. (with J. Myjak), *Bull. Pol. Acad. Sci., Math.* **41**, No.2, 123-130 (1993).
71. Some typical properties of compact mappings. (with J. Myjak), *Bull. Pol. Acad. Sci., Math.* **41**, No.3, 207-216 (1993).
72. Ambiguous loci of the nearest point mapping in Banach spaces. (with J. Myjak), *Arch. Math.* **61**, No.4, 377-384 (1993).
73. Ambiguous loci of the farthest distance mapping from compact convex sets. (with J. Myjak), *Stud. Math.* **112**, No.2, 99-107 (1995).
74. Ambiguous loci of the metric projection onto compact starshaped sets in a Banach space. (with P. S. Kenderov and J. Myjak), *Monatsh. Math.* **119**, No.1-2, 23-36 (1995).
75. Topological properties of nonconvex differential inclusions of evolution type. (with G. Pianigiani and V. Staicu), *Nonlinear Anal., Theory Methods Appl.* **24**, No.5, 711-720 (1995).
76. On the solution sets of some nonconvex hyperbolic differential inclusions. (with G. Pianigiani and V. Staicu), *Czech. Math. J.* **45**, No.1, 107-116 (1995).
77. On the solution sets of nonconvex differential inclusions. (with G. Pianigiani), *J. Differ. Equations* **128**, No.2, 541-555 (1996).

78. On compact connected sets in Banach spaces. (with J. Myjak), *Proc. Am. Math. Soc.* **124**, No.8, 2331-2336 (1996).
79. Densely connected ambiguous loci of the metric projection in Hilbert spaces., *Period. Math. Hung.* **32**, No.3, 167-178 (1996).
80. On typical compact convex sets in Hilbert spaces. *Serdica Math. J.* **23**, No.3-4, 255-268 (1997).
81. On a generalized best approximation problem. (with J. Myjak), *J. Approximation Theory* **94**, No.1, 54-72 (1998).
82. Remarks on differential inclusions without existence or continuous dependence. (with G. Pianigiani), *Acta Math. Hung.* **80**, No.1-2, 95-103 (1998).
83. Hausdorff measurable multifunctions. (with G. Pianigiani), *J. Math. Anal. Appl.* **228**, No.1, 1-15 (1998).
84. Topological degree and periodic solutions to differential inclusions. (with L. Górniewicz and G. Pianigiani), *Zesz. Nauk. Uniw. Jagiell., Univ. Iagell. Acta Math.* **1223**(36), 197-199 (1998).
85. On the Dirichlet problem for first order partial differential equations. A Baire category approach. (with G. Pianigiani), *NoDEA, Nonlinear Differ. Equ. Appl.* **6**, No.1, 13-34 (1999).
86. Cardinality of the metric projection on typical compact sets in Hilbert spaces. (with T. Zamfirescu), *Math. Proc. Camb. Philos. Soc.* **126**, No.1, 37-44 (1999).
87. Topological degree and periodic solutions of differential inclusions. (with L. Górniewicz and G. Pianigiani), *Nonlinear Anal., Theory Methods Appl.* **37**, No.2, A, 217-245 (1999).
88. Some geometric properties of typical compact convex sets in Hilbert spaces. *Stud. Math.* **135**, No.2, 143-162 (1999).
89. On two-loci of metric projections. (with N. V. Zhivkov), *Arch. Math.* **73**, No.1, 42-49 (1999).
90. Evolution inclusions in non separable Banach spaces. (with G. Pianigiani), *Commentat. Math. Univ. Carol.* **40**, No.2, 227-250 (1999).
91. Kakutani-Fan's fixed point theorem in hyperspaces. (with P. G. Georgiev), *Tokyo J. Math.* **24**, No.2, 331-342 (2001).

92. A random variational principle with application to weak Hadamard differentiability of convex integral functionals. (with P. G. Georgiev), *Proc. Am. Math. Soc.* **129**, No. 8, 2253-2260 (2001).
93. On the Baire category method in existence problems for ordinary and partial differential inclusions. (with G. Pianigiani), *Agarwal, Ravi P. (ed.) et al., Set valued mappings with applications in nonlinear analysis. London: Taylor & Francis. Ser. Math. Anal. Appl.* **4**, 137-148 (2002).
94. On a fixed point theorem of Ky Fan. (with P. G. Georgiev), *Acta Math. Sin., Engl. Ser.* **18**, No.2, 363-374 (2002).
95. The number of nearest and farthest points to a compactum in Euclidean space. (with N. V. Zhivkov), *Isr. J. Math.* **130**, 347-363 (2002).
96. Hukuhara's topological degree for non compact valued multifunctions. (with P. G. Georgiev), *Publ. Res. Inst. Math. Sci.* **39**, No. 1, 183-203 (2003).
97. Approximate selections in α -convex metric spaces and topological degree. (with G. Pianigiani), *Topol. Methods Nonlinear Anal.* **24**, No. 2, 347-375 (2004).
98. On porous sets and best approximation theory. (with P. G. Georgiev and J. Myjak), *J. Nonlinear Convex Anal.* **5**, No. 2, 247-255 (2004).
99. Continuous selections in α -convex metric spaces. (with G. Pianigiani), *Bull. Pol. Acad. Sci., Math.* **52**, No. 3, 303-317 (2004).
100. A Bogolyubov-type theorem with a nonconvex constraint in Banach spaces. (with G. Pianigiani and A. A. Tolstonogov), *SIAM J. Control Optim.* **43**, No. 2, 466-476 (2004).
101. The Baire method for the prescribed singular values problem. (with G. Pianigiani), *J. Lond. Math. Soc., II. Ser.* **70**, No. 3, 719-734 (2004).
102. On Michael's continuous selection theorem in compact convex metric spaces. (with G. Pianigiani), *Bull. Calcutta Math. Soc.* **97**, No. 2, 117-130 (2005).
103. Pseudo-barycenters and approximations of multifunctions in metric spaces. (with G. Pianigiani), *Bull. Calcutta Math. Soc.* **97**, No. 4, 325-338 (2005).
104. Typical compacta with dense ambiguous loci. (with N.V. Zhivkov), *Rev. Roum. Math. Pures Appl.* **50**, No. 5-6, 555-564 (2005).

105. Properties of typical bounded closed convex sets in Hilbert space. (with N.V. Zhivkov), *Abstr. Appl. Anal.* **2005**, No. 4, 423-436 (2005).
106. Semifixed sets of maps in hyperspaces with application to set differential equations. *Set-Valued Anal.* **14**, No. 3, 263-272 (2006).
107. Baire category and boundary value problems for ordinary and partial differential inclusions under Carathéodory assumptions. (with G. Pianigiani), *J. Differ. Equations* **243**, No. 2, 558-577 (2007).
108. Banach-Saks-Mazur and Kakutani-Ky Fan theorems in spaces of multifunctions and applications to set differential inclusions. *Dyn. Syst. Appl.* **16**, No. 1, 73-88 (2007).
109. An existence theorem for set differential inclusions in a semilinear metric space. (with V. Lakshmikantham and Bhaskar, T. Gnana), *Control Cybern.* **36**, No. 3, 571-582 (2007).
110. Generic existence and approximation of fixed points for nonexpansive set-valued maps. (with J. Myjak, S. Reich and A. Zaslavski), *Set-Valued Var. Anal.* **17**, No. 1, 97-112 (2009).
111. Extension theorems and topological essentiality in α -weakly convex metric spaces. (with L. Górniewicz and G. Pianigiani), *Topol. Methods Nonlinear Anal.* **34**, No. 1, 141-160 (2009).
112. Weak*-topology and Alaoglu's theorem on hyperspace. (with T. Hu and J-C Huang), *J. Nonlinear Convex Anal.* **10**, No. 1, 33-40 (2009).
113. On typical sets in Banach spaces and a parametric Kuratowski-Ulam theorem. (with N.V. Zhivkov), *Monatsh. Math.* **158**, No. 4, 349-365 (2009).
114. Baire's category and relaxation problems for locally Lipschitzian differential inclusions on finite and infinite time intervals. (with G. Pianigiani), *Nonlinear Anal., Theory Methods Appl., Ser. A, Theory Methods* **72**, No. 1, A, 288-301 (2010).
115. Baire's category and the bang-bang property for evolution differential inclusions of contractive type. (with G. Pianigiani), *J. Math. Anal. Appl.* **367**, No. 2, 550-567 (2010).
116. Baire category and the weak bang-bang property for continuous differential inclusions. (with G. Pianigiani), *Proc. Am. Math. Soc.* **138**, No. 7, 2413-2423 (2010).

117. Semifixed sets of maps and Rådström embedding in locally convex topological linear spaces. *Fixed Point Theory* **11**, No. 1, 11-28 (2010).
118. On the strong law of large numbers in spaces of compact sets. (with L. Tomassini), *J. Convex Anal.* **18**, No. 1, 285-300 (2011).
119. Generic Tychonov well-posedness in spaces of convex sets. (with T. Hu and J-C Huang), *Bull. Math. Soc. Sci. Math. Roum., Nouv. Sér.* **54**(102), No. 1, 29-39 (2011).
120. Baire's category in existence problems for non-convex lower semicontinuous evolution differential inclusions. (with G. Pianigiani), *Proc. Edinb. Math. Soc., II. Ser.* **54**, No. 3, 645-667 (2011).
121. Generic properties of continuous differential inclusions and the Tonelli method of approximate solutions. (with S. Reich and A. Zaslavski), *Set-Valued Var. Anal.* **21**, No. 2, 217-245 (2013).
122. Weak and generic bang-bang properties for continuous evolution inclusions and Baire's method. (with G. Pianigiani), *NoDEA Nonlinear Differential Equations Appl.*, **20**, No. 2, 213-248 (2013).