

Piermarco Cannarsa

Monographs

1. P. CANNARSA & C. SINISTRARI, *Semiconcave functions, Hamilton-Jacobi equations, and optimal control*, Birkhäuser, Boston, 2004.
2. P. CANNARSA, E. GIORGIERI & E. M. TESSITORE, *Lecture notes on Dynamic Optimization*, TeXmat, Roma, 2004.
3. P. CANNARSA & T. A. D'APRILE, *Introduzione alla teoria della misura e all'analisi funzionale*, Springer-Varlag Italia, Milano, 2008.
4. F. ANCONA (ed.), A. BRESSAN (ed.), P. CANNARSA (ed.), F. CLARKE (ed.), P. WOLENSKI (ed.) Geometric control and nonsmooth analysis. In honor of the 73rd birthday of H. Hermes and of the 71st birthday of R. T. Rockafellar. Proceedings of the conference, Rome, Italy, June 2006. Series on Advances in Mathematics for Applied Sciences 76. Hackensack, NJ: World Scientific. x, 361 p (2008).
5. P. CANNARSA, C. CAVATERRA, A. FAVINI, A. LORENZI, E. ROCCA (Editors), *New trends in direct, inverse, and control problems for evolution equations*, Discrete Contin. Dyn. Syst. Ser. S, Vol. 4, No. 3, 2011.

Journal Articles

6. S. CAMPANATO & P. CANNARSA, Second order nonvariational elliptic systems, *Boll. Un. Mat. Ital.* 17-B (1980), pp.1365–1394.
7. S. CAMPANATO & P. CANNARSA, Differentiability and partial Hölder continuity of the solutions of non-linear elliptic systems of order $2m$ with quadratic growth, *Ann. Scuola Norm. Sup. Pisa* 8 (1981), pp.285–309.
8. P. CANNARSA, On a maximum principle for elliptic systems with constant coefficients, *Rend. Sem. Mat. Univ. Padova* 64 (1981), pp.77– 84.
9. P. CANNARSA, Second order nonvariational parabolic systems, *Boll. Un. Mat. Ital.* 18-C (1981), pp.291–315.
10. P. CANNARSA, B. TERRENI & V. VESPRI, Analytic semigroups generated by non-variational elliptic systems of second order under Dirichlet boundary conditions, *J. Math. Anal. Appl.* 112 (1985), pp.56–103.
11. P. CANNARSA & V. VESPRI, Analytic semigroups generated on Hölder spaces by second order elliptic systems under Dirichlet boundary conditions, *Ann. Mat. Pura Appl.* 140 (1985), pp.393–415.
12. P. CANNARSA & V. VESPRI, Existence and uniqueness of solutions to a class of stochastic partial differential equations, *Stochastic Anal. Appl.* 3 (1985), pp.315–339.
13. P. CANNARSA & V. VESPRI, On maximal L^p regularity for the abstract Cauchy problem, *Boll. Un. Mat. Ital.* 5-B (1986), pp.165–175.

¹Updated March 2011.

14. P. CANNARSA & V. VESPRI, Generation of analytic semigroups by elliptic operators with unbounded coefficients, *SIAM J. Math. Anal.* 18 (1987), pp.857–872.
15. P. CANNARSA & H. M. SONER, On the singularities of viscosity solutions to Hamilton-Jacobi-Bellman equations, *Indiana Univ. Math. J.* 36 (1987), pp.501–524.
16. P. CANNARSA & V. VESPRI, Generation of analytic semigroups in the L^p topology by elliptic operators in R^n , *Israel J. Math.* 61 (1988), pp.235–255.
17. P. CANNARSA & H. M. SONER, Generalized one-sided estimates for solutions of Hamilton-Jacobi equations and applications, *Nonlinear Analysis, Theory, Methods & Applications*, 13 (1989), pp.305– 323.
18. P. CANNARSA & G. DA PRATO, Nonlinear optimal control with infinite horizon for distributed parameter systems and stationary Hamilton- Jacobi equations, *SIAM J. Control Optim.* 27 (1989), pp.861–875.
19. P. CANNARSA, G. DA PRATO & J.-P. ZOLESIO, Dynamical shape control of the heat equation, *System & Control Letters* 12 (1989), pp.103– 109.
20. P. CANNARSA, Regularity properties of solutions to Hamilton- -Jacobi equations in infinite dimensions and nonlinear optimal control, *Differential & Integral Equations* 2 (1989), pp.479–493.
21. P. CANNARSA, G. DA PRATO & J.-P. ZOLESIO, Evolution equations in non-cylindrical domains, *Atti Acc. Lincei Rend. fis.* (8), LXXXIII (1989), pp. 73-77.
22. P. CANNARSA & G. DA PRATO, The vanishing viscosity method in infinite dimensions, *Atti Acc. Lincei Rend. fis.* (8), LXXXIII (1989), pp. 79-84.
23. P. CANNARSA & G. DA PRATO, Some results on non-linear optimal control problems and Hamilton-Jacobi equations in infinite dimensions, *J. Funct. Anal.* 90 (1990), pp.27–47.
24. P. CANNARSA & H. FRANKOWSKA, Quelques caractérisations des trajectoires optimales en théorie de contrôle, *C. R. Acad. Sci. Paris* 310, Série I (1990), pp.179-182.
25. P. CANNARSA, G. DA PRATO & J.P. ZOLESIO, The damped wave equation in a moving domain, *J. Differential Equations* 85 (1990), pp.1–16.
26. P. CANNARSA & G. DA PRATO, Second order Hamilton- Jacobi equations in infinite dimensions, *SIAM J. Control Optim.* 29 (1991), pp. 474–492.
27. P. CANNARSA & G. DA PRATO, A semigroup approach to Kolmogoroff equations in Hilbert spaces, *Appl. Math. Lett.* 4 (1991), pp. 49–52.
28. P. CANNARSA & H. FRANKOWSKA, Some characterizations of optimal trajectories in control theory, *SIAM J. Control Optim.* 29 (1991), pp. 1322-1347.
29. P. CANNARSA, F. GOZZI & H.M. SONER, A boundary value problem for Hamilton-Jacobi equations in Hilbert spaces, *Applied Math. Optim.* 24 (1991), pp. 197-220.
30. P. CANNARSA & H. FRANKOWSKA, Value function and optimality conditions for semi-linear control problems, *Applied Math. Optim.* 26 (1992), pp.139-169.
31. G. ALBERTI, L. AMBROSIO & P. CANNARSA, On singularities of convex functions, *Manuscripta Math.* 76 (1992), pp.421-435.
32. P. CANNARSA, F. GOZZI & H. M. SONER, A dynamic programming approach to nonlinear boundary control problems of parabolic type, *J. Funct. Anal.* 117 (1993), pp.25–61.

33. P. CANNARSA & G. DA PRATO, On a functional analysis approach to parabolic equations in infinite dimensions, *J. Funct. Anal.* 118 (1993), pp.22–42.
34. L. AMBROSIO, P. CANNARSA & H. M. SONER, On the propagation of singularities of semi-convex functions, *Ann. Scuola Norm. Sup. Pisa* 20 (1993), pp.597–616.
35. P. CANNARSA & G. DI BLASIO, A direct approach to infinite dimensional Hamilton-Jacobi equations and applications to convex control with state constraints, *Differential & Integral Equations* 8 (1995), pp. 225–246.
36. P. CANNARSA & C. SINISTRARI, Convexity properties of the minimum time function, *Calc. Var.* 3 (1995), pp. 273–298.
37. P. CANNARSA & C. SINISTRARI, On a class of Minimum Time problems, *Discrete and Continuous Dynamical Systems* 1 (1995), pp. 285–300.
38. P. CANNARSA & H. FRANKOWSKA, Value function and optimality conditions for semi-linear control problems. II: parabolic case, *Applied Math. Optim.* 33 (1996), pp. 1–33.
39. P. CANNARSA & G. DA PRATO, Infinite dimensional elliptic equations with Hölder continuous coefficients, *Advances in Differential Equations* 1 (1996), pp. 425–452.
40. P. CANNARSA & M. E. TESSITORE, Dynamic programming equation for a class of non-linear boundary control problems of parabolic type, *Control and Cybernetics* 25 (1996), pp. 483 – 495.
41. P. CANNARSA & M. E. TESSITORE, Infinite dimensional Hamilton–Jacobi equations and Dirichlet boundary control problems of parabolic type, *SIAM J. Control Optim.* 34 (1996), pp. 1831–1847.
42. P. CANNARSA, M. GIANNINI & M. E. TESSITORE, Optimal control of forward looking processes, *Journal of Economic Dynamics and Control* 22 (1997), 49–66.
43. P. CANNARSA, A. MENNUCCI & C. SINISTRARI, Regularity results for solutions of a class of Hamilton-Jacobi equations, *Archive for Rational Mechanics and Analysis* 140 (1997), 197–223.
44. P. CANNARSA, H. FRANKOWSKA & C. SINISTRARI, Optimality conditions and synthesis for the Minimum Time Problem, to appear in *Journal of Mathematical Systems, Estimation, and Control*, Summary: 8 (1998), 123–126.
45. P. ALBANO & P. CANNARSA, Singularities of semiconcave functions in Banach spaces, in *Stochastic analysis, control, optimization and applications: a volume in honor of W.H. Fleming* (W.M.McEneaney, G.G.Yin and Q.Zhang eds.), Birkhäuser, Boston, 1999, 171–190.
46. E. N. BARRON, P. CANNARSA, R. JENSEN & C. SINISTRARI, Regularity of Hamilton–Jacobi equations when forward is backward, *Indiana Univ. Math. J.* 48 (1999), 385–409.
47. P. CANNARSA, V. KOMORNIK & P. LORETI, Well posedness and control of semilinear wave equations with iterated logarithms, *ESAIM: Control, Optimization and Calculus of Variations* 4 (1999), 37–56 (URL:<http://www.emath.fr/cocv/>).
48. P. CANNARSA, V. KOMORNIK & P. LORETI, Controllability of semilinear wave equations with infinitely iterated logarithms, *Control & Cybernetics* 28 (1999), 449–461.
49. P. ALBANO & P. CANNARSA, Structural properties of singularities of semiconcave functions, *Ann.Scuola Norm.Sup. Pisa Cl.Sci.* 28 (1999), 719–740.

50. P. ALBANO, P. CANNARSA & C. SINISTRARI, Regularity Results for the Minimum Time Function of a Class of Semilinear Evolution Equations of Parabolic Type, *SIAM J. Control Optim.* 38 (2000), 916–946.
51. P. CANNARSA, C. PIGNOTTI & C. SINISTRARI, Semiconcavity for optimal control problems with exit time, *Discrete and Continuous Dynamical Systems* 6 (2000), 975–997.
52. P. CANNARSA & C. PIGNOTTI, Semiconcavity of the value function for an exit time problem with degenerate cost, *Le Matematiche* 55 (2000), 71–108.
53. P. CANNARSA & R. PEIRONE, Unbounded components of the singular set of the metric projection in \mathbf{R}^n , *Trans. Amer. Math. Soc.* 353 (2001), 4567–4581.
54. P. ALBANO & P. CANNARSA, Propagation of singularities for solutions of Hamilton–Jacobi equations, *Arch. Rational Mech. Anal.* 162 (2002), 1–23.
55. P. CANNARSA, V. KOMORNIK & P. LORETI, One-sided and internal controllability of semilinear wave equations with infinitely iterated logarithms, *Discrete and Continuous Dynamical Systems* 8 (2002), 745–756.
56. F. ALABAU, P. CANNARSA & V. KOMORNIK, Indirect internal stabilization of weakly coupled systems of evolution equations, *J. evol. equ.* 2 (2002), 127–150.
57. P. CANNARSA & D. SFORZA, Global solution of a class of semilinear heat equations for materials of fading memory type, *NoDEA* 10 (2003), 399–430.
58. P. CANNARSA & O. CARJA, On the Bellman equation for the Minimum Time Problem in infinite dimensions, *SIAM J. Control Optim.* 43 (2004), 532–548.
59. P. CANNARSA, P. MARTINEZ & J. VANCOSTENOBLE, Null controllability in unbounded domains by a finite measure control region for the semilinear heat equation, *ESAIM: COCV* 10 (2004), 381–408 (DOI: 10.151/cocv:2004010).
60. P. CANNARSA & P. CARDALIAGUET, Representation of equilibrium solutions to the table problem for growing sandpiles, *J. Eur. Math. Soc.* 6 (2004), 435–464.
61. P. CANNARSA & D. SFORZA, Semilinear integrodifferential equations of hyperbolic type: existence in the large, *Mediterr. j. math.* 1 (2004), 151–174.
62. P. CANNARSA, P. MARTINEZ & J. VANCOSTENOBLE, Persistent regional null controllability for a class of degenerate parabolic equations, *Communications on Pure and Applied Analysis* 3 (2004), 607–635.
63. P. CANNARSA, P. MARTINEZ & J. VANCOSTENOBLE, Null controllability of degenerate heat equations, *Adv. Differential Equations* 10 (2005), 153–190.
64. P. CANNARSA, Funzioni semiconcave, singolarità e pile di sabbia, *Boll. Un. Mat. Ital.* 8-B (2005), 549–567.
65. P. CANNARSA, P. CARDALIAGUET, G. CRASTA & E. GIORGIERI, A boundary value problem for a PDE model in mass transfer theory: representation of solutions and applications, *Calc. Var.* 24 (2005), 431–457.
66. P. CANNARSA & H. FRANKOWSKA, Interior sphere property of attainable sets and time optimal control problems, *ESAIM Control Optim. Cal. Var.* 12 (2006), 350–370.
67. F. ALABAU-BOUSSOUIRA, P. CANNARSA & G. FRAGNELLI, Carleman estimates for degenerate parabolic operators with applications to null controllability, *J. evol. equ.* 6 (2006), 161–204.

68. P. CANNARSA, G. FRAGNELLI & J. VANCOSTENOBLE, Regional controllability of semilinear degenerate parabolic equations in bounded domains, *J. Math. Anal. Appl.* 320 (2006), 804-818.
69. P. CANNARSA & P. CARDALIAGUET, Perimeter estimates for reachable sets of control systems, *J. Convex Anal.* 13 (2006), 253-267.
70. P. CANNARSA & G. FRAGNELLI, Null controllability of semilinear degenerate parabolic equations in bounded domains, *Electron. J. Diff. Eqns.*, (2006), No. 136, pp. 1-20.
71. P. CANNARSA, G. FRAGNELLI & D. ROCCHETTI, Null controllability of degenerate parabolic operators with drift, *Networks and Heterogeneous Media*, vol. 2 (2007), pp. 693-713.
72. P. CANNARSA, P. CARDALIAGUET & E. GIORGIERI, Hölder regularity of the normal distance with an application to a PDE model for growing sandpiles, *Trans. Amer. Math. Soc.* 359 (2007), no. 6, 2741-2775. 26B35 (35B65 35J55 35R35 49N60 58C20 76T25)
73. F. ALABAU-BOUSSOUIRA, P. CANNARSA & D. SFORZA, Decay estimates for second order evolution equations with memory, *J. Funct. Anal.* 254 (2008), no. 5, 1342-1372. 35R10 (35B40 35L70 74D10 74H40)
74. P. CANNARSA & M. CASTELPIETRA, Lipschitz continuity of the value function for exit time problems with state constraints, *J. Differential Equations* 245 (2008), no. 3, 616-636. 49N60 (49L25) MR2422521
75. P. CANNARSA, P. MARTINEZ & J. VANCOSTENOBLE, Carleman estimates for a class of degenerate parabolic operators, *SIAM J. Control Optim.* 47 (2008), no. 1, 1-19. 35K65 (93B05 93B07 93C20) MR2373460
76. P. CANNARSA & L. RIFFORD, Semiconcavity results for optimal control problems admitting no singular minimizing controls, *Ann. Inst. H. Poincaré Anal. Non Linéaire* 25 (2008), no. 4, 773-802. 49K15 (53C17) MR2436793
77. P. CANNARSA, G. FRAGNELLI & D. ROCCHETTI, Controllability results for a class of one-dimensional degenerate parabolic problems in nondivergence form, *J. evol. equ.* 8 (2008), 583-616. 93B05 (35K20 35K65 93B07 93C20) MR2460930
78. P. CANNARSA, D. ROCCHETTI & J. VANCOSTENOBLE, Generation of analytic semi-groups in L^2 for a class of second order degenerate elliptic operators. *Control Cybernet.* 37 (2008), no. 4, 831-878. 35J70 (47D06) MR2536479
79. P. CANNARSA & D. SFORZA, A stability result for a class of nonlinear integrodifferential equations with L^1 kernels, *Appl. Math. (Warsaw)* 35 (2008), no. 4, 395-430. 35L90 (34K20 35B35 35L70 45J05 47D06 74D05 93D20) MR2457269
80. P. CANNARSA, H. FRANKOWSKA & E. M. MARCHINI, Existence and Lipschitz regularity for solutions to Bolza problems in optimal control, *Trans. Amer. Math. Soc.* 361 (2009), no. 9, 4491-4517. 49J15 (49J30 49K15 49K30) MR2506416
81. P. CANNARSA, H. FRANKOWSKA & E. M. MARCHINI, On the Bolza optimal control problem with state constraints, *Discrete Contin. Dyn. Syst. Ser. B* 11 (2009), no. 3, 629-653. 49J15 (49J30 49K15) MR2481328
82. P. CANNARSA, L. DE TERESA, Controllability of 1-D coupled degenerate parabolic equations. *Electron. J. Differential Equations* 2009, No. 73, 21 pp. 93B05 (35K65 93C20) MR2519898

83. P. CANNARSA & Y. YU, Dynamics of the propagation of singularities for semiconcave functions, *J. Eur. Math. Soc.* 11 (2009), 999–1024. 26B25 (35A21 49L25)
84. F. ALABAU-BOUSSOUIRA & P. CANNARSA, A general method for proving sharp energy decay rates for memory-dissipative evolution equations, *C. R. Math. Acad. Sci. Paris* 347 (2009), no. 15-16, 867–872.
85. P. CANNARSA, P. MARTINEZ & J. VANCOSTENOBLE, Carleman estimates and null controllability for boundary-degenerate parabolic operators, *C. R. Math. Acad. Sci. Paris* 347 (2009), no. 3-4, 147–152.
86. P. CANNARSA, P. CARDALIAGUET & C. SINISTRARI, On a differential model for growing sandpiles with non-regular sources, *Comm. Partial Differential Equations* 34 (2009), no. 7-9, 656–675.
87. P. CANNARSA & M.O. CZARNECKI, Minkowski content for reachable sets, *Manuscripta Math.* 131 (2010), no. 3-4, 507–530.
88. P. CANNARSA & P. CARDALIAGUET, Hölder estimates in space-time for viscosity solutions of Hamilton-Jacobi equations, *Comm. Pure Appl. Math.* 63 (2010), 590–629.
89. P. CANNARSA, G. DA PRATO & H. FRANKOWSKA, Invariant measures associated to degenerate elliptic operators, *Indiana Univ. Math. J.* 59 (2010), 53–78.
90. P. CANNARSA & A.Y. KHAPALOV, Multiplicative controllability for reaction-diffusion equations with target states admitting finitely many changes of sign, *Discrete Contin. Dyn. Syst. Ser. B*, vol. 14, n. 4 No. 4, 1293-1311 (2010).
91. P. CANNARSA, J. TORT & M. YAMAMOTO, Determination of source terms in a degenerate parabolic equation, *Inverse Problems* 26 (2010), 20 pp.
doi:10.1088/0266-5611/26/10/105003
92. P. CANNARSA, M. QUINCAMPOIX & R. BUCKDAHN, Regularity properties of a class of fully nonlinear parabolic equations, NoDEA, Nonlinear Differ. Equ. Appl. 17, No. 6, 715-728 (2010).
93. P. CANNARSA & P.R. WOLENSKI, Semiconcavity of the value function for a class of differential inclusions, *Discrete Contin. Dyn. Syst.* 29, No. 2, 453-466 (2011).
94. P. CANNARSA & D. SFORZA, Integro-differential equations of hyperbolic type with positive definite kernels (57 pp), to appear in *J. Differential Equations*.

Articles in Encyclopedias, Nontechnical Journals, . . .

95. P. CANNARSA, Soluzioni di viscosità, in Enciclopedia Italiana, Appendice 2000 I (2000), 591–592.
96. F. ALABAU-BOUSSOUIRA & P. CANNARSA, Control of Partial Differential Equations. Encyclopedia of Complexity and Systems Science – Entry 583 – 2008/7/31, 24 pp.
97. P. CANNARSA & S. FINZI VITA, Pile di sabbia, dune, valanghe: modelli matematici per la materia granulare. Lettera matematica PRISTEM n. 70-71, Springer-Verlag Italia, Milano, February 2009.

Conference Proceedings

98. P. CANNARSA, *Stime del risolvibile per una classe di operatori ellittici e applicazioni, Equazioni differenziali e calcolo delle variazioni* (L.Modica Editor), Pisa, 1985.
99. P. CANNARSA & V. VESPRI, *Existence and uniqueness results for a non linear stochastic partial differential equation*, *Stochastic Partial Differential Equations and Applications* (G. Da Prato and L. Tubaro Editors), Springer–Verlag Lecture Notes in Mathematics n.1236 (1987), pp.1–24.
100. P. CANNARSA, *Singularities of solutions to Hamilton–Jacobi–Bellman equations*, *Hyperbolic equations* (F. Colombini and M.K.V. Murthy Editors), Pitman Research Notes in Mathematics n.158 (1987), pp. 246–251.
101. P. CANNARSA, G. DA PRATO & J.-P. ZOLESIO, *Dynamical actuators for the heat equation*, *Proceedings of the 5th IFAC Symposium*, Perpignan, June 26-29, 1989.
102. P. CANNARSA, G. DA PRATO & J.-P.ZOLESIO, *Riccati equation in non cylindrical domains*, *Stabilization of flexible structures* (J.P.Zolesio editor), Springer–Verlag Lecture Notes in Control and Information Sciences n. 147 (1990), pp.148–155.
103. P. CANNARSA & G. DA PRATO, *Some properties of the value function of a nonlinear control problem in infinite dimensions*, *Stabilization of flexible structures* (J.-P. Zolesio editor), Springer–Verlag Lecture Notes in Control and Information Sciences n. 147 (1990), pp. 235–247.
104. P. CANNARSA & G. DA PRATO, *Direct solution of a second order Hamilton-Jacobi equation in Hilbert spaces*, *Stochastic Partial Differential Equations and Applications* (G.Da Prato & L.Tubaro editors), Pitman Research Notes in Mathematics Series n.268 (1992), pp. 72–85.
105. P. CANNARSA & G. DA PRATO, *Second order Hamilton-Jacobi equations in infinite dimensions and stochastic optimal control problems*, *Probabilistic and Stochastic Methods in Analysis, with Applications* (J.S.Byrnes, J.L.Byrnes, K.A.Hargreaves & K.Berry editors), NATO ASI Series C 372 (1992), Kluwer Academic Publishers, Boston, pp. 617–629.
106. P. CANNARSA & F. GOZZI, *On the smoothness of the value function along optimal trajectories*, *Boundary Control and Boundary Variation* (J.P.Zolsio ed.), Lecture Notes in Control and Information Sciences 178, Springer–Verlag, Berlin, 1992.
107. P. CANNARSA & G. DA PRATO, *Some results on abstract evolution equations of hyperbolic type*, *Differential equations in Banach spaces* (G.Dore, A.Favini, E.Obrecht & A. Venni eds.), Lecture Notes in Pure and Applied Mathematics 148, Marcel Dekker, Inc., New York, 1993.
108. P. CANNARSA & M. E. TESSITORE, *Cauchy problem for the dynamic programming equation of boundary control*, *Boundary Control and Variation* (J.P.Zolsio ed.), Lecture Notes in Pure and Applied Mathematics n.163, Dekker, New York, 1994.
109. P. CANNARSA & G. DI BLASIO, *Dynamic programming for an abstract second order evolution equation with convex state constraints*, *Control of Partial Differential Equations* (G.Da Prato & L.Tubaro eds.), Lecture Notes in Pure and Applied Mathematics n.165, Dekker, New York, 1994.
110. P. CANNARSA & M. E. TESSITORE, *Optimality conditions for boundary control problems of parabolic type*, *International Series of Numerical Mathematics*, Birkhäuser Verlag, Basel, 1994.
111. P. CANNARSA & M. E. TESSITORE, *Cauchy problem for Hamilton-Jacobi equations and Dirichlet boundary control problems of parabolic type*, *Control of Partial Differential Equations* (E. Casas ed.), Lecture Notes in Pure and Applied Mathematics n.174, Dekker, New York, 1996.

112. P. CANNARSA & C. SINISTRARI, An infinite dimensional time optimal control problem, in Proceedings from the 1996 Joint Summer Research Conference “Optimization Methods in Partial Differential Equations” June 16–20, 1996, Mount Holyoke College, Contemporary Mathematics (American Mathematical Society) vol. 209,1997, 29–41.
113. P. CANNARSA & M. E. TESSITORE, On the behaviour of the value function of a Mayer optimal control problem along optimal trajectories, in Proceedings from the 7th International Conference on Control and Estimation of Distributed Parameter Systems, Vorau Styria, July 14–20, 1996; International Series of Numerical Mathematics, Vol. 126 (1998), Birkhäuser Verlag, Basel, 81–88.
114. P. CANNARSA & G. DA PRATO, Potential theory in Hilbert spaces, in Proceedings of a Conference in Honor of the 70th Birthdays of Peter D. Lax and Louis Nirenberg “Recent Advances in Partial Differential Equations” June 10–14, 1996, Venice, Proceedings of Symposia in Applied Mathematics (American Mathematical Society) vol. 54, 1998, 27–51.
115. P. ALBANO & P. CANNARSA, Singularities of the minimum time function for semilinear parabolic systems, *ESAIM: Proceedings (Contrôle et Équations aux Dérivées Partielles)* 4 (1998), 59–72 (URL:<http://www.emath.fr/proc/Vol.4/>).
116. P. ALBANO, P. CANNARSA & V. KOMORNIK, Well posedness of semilinear heat equations with iterated logarithms, International Series of Numerical Mathematics **133**, Birkhäuser Verlag, Basel, 1999, 1–11.
117. P. CANNARSA & C. PIGNOTTI, Optimal control with state constraints: a semiconcavity result, Proceedings of the 38th Conference on Decision & Control, Phoenix, Arizona USA, December 1999.
118. P. ALBANO & P. CANNARSA, Propagation of singularities for concave solutions of Hamilton–Jacobi equations, in EQUADIFF 99 Proceedings of the International Conference on Differential Equations (D. Fiedler, K. Gröger and J. Sprekels Eds.), World Scientific, Singapore, 2000, 583–588.
119. P. CANNARSA & E. MECOCCI, A regularity result for viscosity solutions of degenerate parabolic equations, Proceedings of the Eleventh Tokyo Conference on Nonlinear PDE 2001, July 2001, 69–78.
120. D. SFORZA & P. CANNARSA, An existence result for semilinear equations in viscoelasticity: the case of regular kernels, in *Mathematical models and methods for smart materials* (M. Fabrizio, B. Lazzari and A. Morro eds.), World Scientific, London, 2002, 343–354.
121. P. CANNARSA, G. FRAGNELLI & J. VANCOSTENOBLE, Regional controllability of semilinear parabolic equations in unbounded domains, Proceedings of the Sixth Portuguese Conference on Automatic Control “Controlo 2004”, University of Algarve, Faro, Portugal, June 7-9, 2004.
122. P. CANNARSA, Analysis of a PDE model for sandpile growth, in System modeling and optimization, edited by F. Ceragioli, A. Dontchev, H. Futura, K. Marti, and L. Pandolfi (Proceedings of the 22nd IFIP TC7 Conference held from July 18-33, 2005, in Turin, Italy), Springer, 41-50, 2006.
123. P. CANNARSA, G. FRAGNELLI & J. VANCOSTENOBLE, Linear degenerate parabolic equations in unbounded domains: controllability and observability, Systems, control, modeling and optimization, edited by F. Ceragioli, A. Dontchev, H. Futura, K. Marti, and L. Pandolfi (Proceedings of the 22nd IFIP TC7 Conference held from July 18-33, 2005, in Turin, Italy), Springer, 163-173, 2006.

124. P. CANNARSA, H. FRANKOWSKA & E. M. MARCHINI, Lipschitz continuity of optimal trajectories in deterministic optimal control. *Differential equations, chaos and variational problems*, 105–116, *Progr. Nonlinear Differential Equations Appl.*, 75, Birkhuser, Basel, 2008. 49N60 (49Jxx 49Kxx)
125. P. CANNARSA, P. CARDALIAGUET & M. CASTELPIETRA, Regularity properties of attainable sets under state constraints, *Geometric control and nonsmooth analysis*, 120–135, *Ser. Adv. Math. Appl. Sci.*, 76, World Sci. Publ., Hackensack, NJ, 2008. 49K15 (93B03) MR2487750

Works under Review

126. F. ALABAU-BOUSSOUIRA & P. CANNARSA, A constructive proof of Gibson’s stability theorem (7 pp).
127. P. CANNARSA, P. MARTINEZ & J. VANCOSTENOBLE, *Global Carleman estimates for degenerate parabolic operators with applications* (171 pp).
128. P. CANNARSA & K.T. NGUYEN, Exterior sphere condition and time optimal control for differential inclusions (21 pp).
129. F. ALABAU-BOUSSOUIRA, P. CANNARSA & R. GUGLIELMI, Indirect stabilization of weakly coupled systems with hybrid boundary conditions (23 pp).
130. P. CANNARSA & P. CARDALIAGUET, Regularity results for eikonal-type equations with nonsmooth coefficients (16 pp).
131. P. CANNARSA, F. MARINO & P.R. WOLENSKI, Semiconcavity of the minimum time function for differential inclusions (20 pp).

Works in Preparation

132. K. BEAUCHARD, P. CANNARSA & R. GUGLIELMI, Null controllability of Grushin-type operators in dimension two (28 pp).
133. P. ALBANO, P. CANNARSA, K.T. NGUYEN & C. SINISTRARI, Singular gradient flow and homotopic equivalence (16 pp).
134. P. CANNARSA, F. MARINO & P.R. WOLENSKI, Dynamic programming and feedback for min time differential inclusion problems (pp).
135. P. CANNARSA & G. FLORIDIA, Approximate controllability for linear degenerate parabolic problems with bilinear control (19 pp).
136. P. CANNARSA & A.Y. KHAPALOV, Multiplicative controllability for the 2-D reaction-diffusion equations with the initial and target states admitting changes of sign (21 pp).
137. P. CANNARSA & A.Y. KHAPALOV, Modeling for nonstationary sand formation and related mathematical questions in the 1-D case (19 pp).
138. F. ALABAU-BOUSSOUIRA & P. CANNARSA, Quasi-optimal energy decay estimates for solutions of memory-damped evolution equations via time-energy measures and convexity (30 pp).
139. P. CANNARSA & G. DA PRATO, Stochastic Viability for regular closed sets in Hilbert spaces (11 pp).
140. P. CANNARSA, J. TORT & M. YAMAMOTO, Scenario for the unique continuation for a degenerate parabolic equation (7 pp).