

List of publications of Martino BARDI

Books

3. M. Bardi, I. Capuzzo-Dolcetta: Optimal control and viscosity solutions of Hamilton-Jacobi-Bellman equations. Systems & Control: Foundations & Applications. Birkhäuser, Boston, 1997. (MR 99e:49001) 2nd printing, Modern Birkhäuser Classics, 2008.
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1. M. Bardi, M.G. Crandall, L.C. Evans, H.M. Soner, P.E. Souganidis: Viscosity solutions and applications (Montecatini Terme, 1995). Edited by I. Capuzzo Dolcetta and P. L. Lions. Lecture Notes in Mathematics, 1660. Springer-Verlag, Berlin, 1997. (MR 98f:49029)
[MR = Mathematical Reviews]

Research papers

(mostly available at <http://cvgmt.sns.it/people/bardi/>)

78. M. Bardi, A. Goffi: Liouville results for fully nonlinear equations modeled on Hörmander vector fields. I. The Heisenberg group, Math. Ann. 383 (2022), 171–201, DOI:10.1007/s00208-020-02118-x
77. M. Bardi, P. Cardaliaguet: Convergence of some Mean Field Games systems to aggregation and flocking models, Nonlinear Analysis 204 (2021), no. 112199, 24 pp. DOI:10.1016/j.na.2020.112199
76. M. Bardi, E. Feleqi, P. Soravia: Regularity of the minimum time and of viscosity solutions of degenerate eikonal equations via generalized Lie brackets, Set-Valued and Variational Analysis 29 (2021), 83–108. DOI:10.1007/s11228-020-00539-z
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73. M. Bardi, M. Fischer: On non-uniqueness and uniqueness of solutions in some finite-horizon Mean Field Games, ESAIM Control Optim. Calc. Var. 25 (2019) 44. DOI: 10.1051/cocv/2018026
72. M. Bardi, M. Cirant: Uniqueness of solutions in Mean Field Games with several populations and Neumann conditions, in "PDE models for multi-agent phenomena", P. Cardaliaguet, A. Porretta, F. Salvarani editors, pp. 1-20, Springer INdAM Series, 2018. DOI: 10.1007/978-3-030-01947-1_1
71. Y. Achdou, M. Bardi, M. Cirant: Mean Field Games models of segregation, Math. Models Methods Appl. Sci. 27 (2017), 75–113, DOI: 10.1142/S0218202517400036

70. M. Bardi, E. Feleqi: Nonlinear elliptic systems and mean field games, *NoDEA Nonlinear Differential Equations Appl.* 23 (2016), 23–44, DOI: 10.1007/s00030-016-0397-7
69. M. Bardi, A. Cesaroni: Liouville properties and critical value of fully nonlinear elliptic operators, *J. Differential Equations* 261 (2016), 3775–3799, DOI: 10.1016/j.jde.2016.06.006
68. M. Bardi, A. Cesaroni, L. Rossi: Nonexistence of nonconstant solutions of some degenerate Bellman equations and applications to stochastic control, *ESAIM Control Optim. Calc. Var.* 22 (2016), 842–861, DOI: 10.1051/cocv/2015033
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64. M. Bardi, G. Terrone: Periodic homogenization of deterministic control problems via limit occupational measures, in “Dynamics, Games, and Science”, J.-P. Bourguignon, R. Jeltsch, A. Pinto, M. Viana eds., pp. 105–116, *CIM Series in Mathematical Sciences* 1, Springer, 2015. DOI: 10.1007/978-3-319-16118-1_7
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61. M. Bardi, F.S. Priuli: LQG Mean-Field Games with ergodic cost, *Proc. 52nd IEEE-CDC*, Florence, 2013, 2493–2498.
60. M. Bardi, P. Mannucci: Comparison principles and Dirichlet problem for fully nonlinear degenerate equations of Monge-Ampère type. *Forum Math.* 25 (2013), 1291–1330; DOI: 10.1515/forum-2013-0067
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54. O. Alvarez, M. Bardi: Ergodicity, stabilization, and singular perturbations for Bellman-Isaacs equations, *Mem. Amer. Math. Soc.* 204 (2010), pp. 1–88.

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16. M. Bardi, H. Kouhkouh: Deep Relaxation of Controlled Stochastic Gradient Descent via Singular Perturbations, preprint 2022, arXiv:2209.05564
15. M. Bardi, H. Kouhkouh: Singular perturbations in stochastic optimal control with unbounded data, preprint 2022, arXiv:2208.00655
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