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იმპაქტ ფაქტორიანი ჟურნალები აღნიშნულია ვარსკვლავით

1. Connections between a system of forward–backward SDEs and backward stochastic PDEs related to the utility maximization problem, (with M. Mania), Transactions of A. Razmadze Mathematical Institute ,v.172, 3 (2018) , 429-439.
2. Robust Stochastic Control of the Exchange Rate Using Interest Rates, Reports of the seminar of I. Vekua Institute of Applied Mathematics, v. 32, (2018), 71-74.
3. The Ito formula for non-anticipative functional according to Chitashvili (with M. Mania), Applications of stochastic processes and mathematical statistics to financial economics and social sciences III, Conference Materials (2018), 20p.
4. Connections between a system of forward–backward SDEs and backward stochastic PDEs related to the utility maximization problem, (with M. Mania), Applications of stochastic processes and mathematical statistics to financial economics and social sciences II, Conference Materials (2017), 5p.
5. A system of Forward-Backward SDEs related to utility maximization problem (with M. Mania), Reports of the seminar of I. Vekua Institute of Applied Mathematics, v. 31, (2017), 103-106.
6. Application of FBSDE in optimal investment problem, (with B. Chikvinidze) Reports of the seminar of I. Vekua Institute of Applied Mathematics, v. 31, (2017), 23-26
7. On regularity of primal and dual dynamic value functions related to investment problem and their representations as Backward Stochastic PDE solutions, (with M. Mania), SIAM journal on financial mathematics, 8(1), (2017), 483–503. *
8. On regularity of dynamic value function related to the utility maximization (with M. Mania), Proceedings of A. Razmadze Mathematical Institute Vol. **168**, (2015), 63–77.
9. The relation between the basic and conditional utility optimization problems, (with M. Mania), I. Vekua Institute of Applied Mathematics, v. 35. (2015)
10. On the properties of dynamic value functions in the problem of optimal investment in incomplete market (with M. Mania), Georgian Mathematical Journal. Vol. 22, Issue 1, (2015), 111–130. *
11. Robust utility maximization for a diffusion market model with misspecified coefficients, (with Toronjadze and T. Uzunashvili) Finance and Stochastics, 17, 3, (2013), 535–563. *
12. Robust mean-variance hedging and pricing of contingent claims in a one period model, International Journal of Theoretical and Applied Finance, 15, 3,(2012), 9p. *

13. Robust mean-variance hedging in the single period model, Reports of the seminar of I. Vekua Institute of Applied Mathematics, v. 25. (2012), 4p.
14. Robust Mean-Variance Hedging In The Two Period Model, (with T. Uzunashvili), Reports of the seminar of I. Vekua Institute of Applied Mathematics, v.24., (2010),126-129.
15. A semimartingale BSDE related to the minimal entropy martingale measure, *Handbook of Quantitative Finance and Risk Management* , Springer, (2010), (with M. Mania and M. Santacroce) , Book chapter 104, pp. 1555-1566.
16. Backward stochastic PDEs related to the utility maximization problem, (with M. Mania), *Georgian Mathematical Journal*, Vol. 17, N 4, (2010), pp. 705- 741.*
17. Mean-Variance Hedging Under Partial Information, *Stochastic Control*, *Stochastic Control*, Sciyo, 2010. (with M. Mania and T. Toronjadze), Book chapter, v.28, pp. 581-608.
18. L^2 -approximating pricing under restricted information. (with M. Mania and T. Toronjadze) *Applied Mathematics and Optimization* Vol. 60, 1, (2009), 39-70.*
19. L^2 -hedging Under Partial Observations. (with M. Mania) Reports of Enlarged Session of the Seminar of I.Vekua Institute of Applied Mathematics, vol. 23 (2008), pp.108-112.
20. Mean-variance hedging with partial information (with M. Mania and T, Toronjadze), *SIAM journal on Control and Optimization*, vol. 47, № 5, (2008), pp. 2381-2409. *
21. Solvability of Backward Stochastic Differential Equation with Quadratic Growth, *Stochastic Processes and their Applications*, vol. 118, №3, (2008), 503-515.*
22. Quantum Computation with Scattering Matrices, *Современная Математика и ее Приложения (Contemporary Mathematics and Its Applications)*, vol. 44, (2007), 152-162. (with G. Giorgadze). Translated in *Journal of Mathematical Sciences*. *
23. An exponential martingale equation , *Electronic Communications in Probability* 11 , (2006), 206–216 (with M. Mania).*
24. Scattering Matrices as the Gates for Quantum Computer, *Bull. Georg. Acad. Sci.* (2006), 173, №1, 7-10,(with G. Giorgadze).
25. A martingale equation of exponential type, *From Stochastic Calculus to Mathematical Finance*, *The Shiryaev Festschrift*, Springer-Verlag, (2005), 507-516. (with M. Mania).

26. A BSDE and the Bellman equation related to the minimal entropy martingale measure, Georgian Math. Journal, vol 11, No 1,(2004) 125-135. (with M. Mania and M. Santacroce).*
27. The task of optimal displacement, Proceedings of the Inst. of Cybernetics, vol. 3, N 1-2, (2004), 181-184. (with Gd.G. Letzava, T. Sulaberidze).
28. An exponential martingale equation, (2003),DEMPH., (with M. Mania).
<http://www.rmi.acnet.ge/DEMPH/demph2003>
29. Backward Stochastic PDE and Imperfect Hedging, International Journal of Theoretical and Applied Finance, vol.6, 7,(2003),663-692. (with M. Mania). *
30. A stochastic equation for the distribution law of diffusion type processes, Random Operator and Stochastic Equation, vol.11, 1, (2003), 77-82. *
31. Semimartingale Backward PDE and Imperfect Hedging, Kolmogorov and contemporary mathematics, Abstracts, Moscow, June 16-21, (2003), 91-92. (with M. Mania).
32. A Semimartingale Backward Equation and the Variance optimal martingale measure under general information flow, SIAM Journal on Control and Optimization, Vol. 42, N5, (2003), 1703-1726. (with M. Mania). *
33. A Semimartingale BSDE related to the minimal entropy martingale measure, Finance and Stochastics, vol.7, No 3, (2003), 385-402. (with M. Mania and M. Santacroce). *
34. A unified characterization of q-optimal and minimal entropy martingale measures by Semimartingale Backward Equations, (with M. Mania), Georgian Mathematical Journal, Vol. 10 (2003),N2, 289-310,. *
35. One problem of Parametric estimation related to the principle of work of level sensor for apparatus of cutting, Proceedings of the Inst. of Cybernetics, vol. 2, N 1-2, (2002), 114-115. (with Gd.G. Lezhava, G.G. Lezhava, G. Machavariani).
36. For the subject of estimation of semantic information, Proceedings of the Inst. of Cybernetics, vol. 2, N 1-2, (2002), 113-114. (with Gd.G. Letzava).
37. Математическая модель сырьевого слоя чайного листа и оптимизация сбора, Georgian Eng. News (2002), 2, 62-64. (with I.X. Kamkamidze , Gd.G. Letzava, G.G. Letzava, E.M. Mkrtchjan , T.G. Sulaberidze)
38. Backward Stochastic PDE and Hedging in Incomplete Markets, Proceedings of Mathematical Inst., vol.13, (2002), 39-72. (with M. Mania).

39. A Semimartingale Bellman Equation and the Variance-Optimal Martingale Measure. Correction, Georgian Math. Journal, 2002, VOL 9; part 1, (2002), p. 197. (with Mania) *
40. A Semimartingale Bellman Equation for the mean-variance hedging problem, Reports on enlarged sessions of the seminar of I.Vekua Inst. of Applied Mathematics, vol. 17, 1, (2002), 21-24. (with M. Mania).
41. A Semimartingale backward equation related to the p-optimal martingale measure and the minimal price of contingent claims, Stoch. Processes and Related Topics, Stochastics Monogr., 12, Taylor & Francis. (2002), 169-202. (with M. Mania and M. Santacroce).
42. A Semimartingale Backward Equation and the Variance-optimal Martingale Measure, Abstracts of III congress of Georgian Mathematics, 11-13 October, (2001), p.68. (with M. Mania).
43. An equation for the distribution of diffusion type processes, Abstracts of III congress of Georgian Mathematics, 11-13 October, (2001), p.51.
44. On Bellman's equation for controlled diffusion processes, Abstracts of 12-th Winter School on Stochastic Processes, Jena, (2000), 4-5. (with M. Mania).
45. A Semimartingale Bellman equation and the variance-optimal martingale measure, Georgian Math. J. vol. 7, No 4 (2000), 765--792. (with M. Mania). *
46. Mixed problem for the Bellman equation with measurable coefficients. Mem. Differ. Equ. Math. Phys. 19, (2000), 142-149. *
47. Semimartingale functions of a class of diffusion processes. (Russian, English) Theory Probab. Appl. 45, No.2, 337-343 (2002); translation from Теория Вероятн. Прим. 45, No.2, (2000), 374-380. (with M. Mania).*
48. Markov dilation of Diffusion Type Processes and its Applications to the Financial Mathematics, Georgian Math. Journal, vol.6, No 4, (1999), 363-378. *
49. The solvability of Isaacs's equation with the measurable coefficients, Reports on enlarged sessions of the seminar of I.Vekua Inst. of Applied Mathematics, vol. 14, 1, (1999) 62-66.
50. Solution of Bellman's equation by means of a system of nonlinear singular integral equations, (with M. Mania). Mem. Differ. Equ. Math. Phys. 13, (1998), 121-129. *
51. Solution of Bellman's equation by a system of nonlinear singular integral equations, (with M. Mania). Abstracts of Differential Equation and Mathematical Physics, Tbilisi, (1997), p.82.

52. Optimal problems for controlled processes of diffusion type with infinite dimensional restrictions. (Russian.) Сообщения Академии Наук ГССР 149, No.1, 16-19 (1994). Bulletin of AN GSSR, 1, (1994).
53. A necessary condition of optimality in weak sense for generalized optimization problem for diffusion system, (Russian), Teor. Kibern. 4, (1991), 98-103.
54. On an optimization problem with a random perturbation., (Russian), Teor. Kibern. 3, (1986), 126-129.
55. About adjoint system of maximum principle for controlled diffusion processes, Тезисы докладов 19 школы-коллоквиума по теории вероятностей и мат. статистике, (Russian), Tbilisi, 1985. p.50.
56. The Maximum Principle for Control System and Theorem of Existence, Тезисы докладов 19 школы-коллоквиума по теории вероятностей и мат. статистике, (Russian), Tbilisi, 1984. p.47.
57. The maximum principle for controlled diffusion system with generalized control, Тезисы докладов международной конференции по стохастической оптимизации, Kiev, 1984. 105-106.
58. Some necessary condition for optimality of stochastic control systems. (Russian.) Сообщения Академии Наук ГССР 114, 29-32 (1984), Bulletin of AN GSSR 1, (1984).
59. The maximum principle for stochastic system with generalized control, Тезисы докладов 10 Республиканской научно-методической конференции ВУЗ-ов ГССР, Телави, 1983. s.30 (Russian).
60. A necessary condition for optimality of stochastic control systems. (Russian.) Сообщения Академии Наук ГССР 109, 21-23 (1983), Bulletin of AN GSSR, 1, (1983).