Selected list of publications

Boualem Djehiche

March 31, 2025

References

[1] B. Djehiche (1992): Bernstein processes and spin-1/2 particles. J. Math. Physics, 33, (9), p. 3050-3059.

[2] H. Andersson and B. Djehiche (1992): Multitype epidemics and Brownian sheets. Research Rep. 168. Inst. Actuar. Math. and Math. Stat. Stockholm University.

[3] B. Djehiche (1993): A Large Deviation estimate for ruin probabilities. Scand. Actuarial J. (1), p. 42-59.

[4] B. Djehiche (1993): Bernstein processes and Pauli-type equations. J. Potential Analys. 2, p. 349-370.

[5] H. Andersson and B. Djehiche (1994): A functional limit theorem for the total cost of a multitype standard epidemic. Adv. Appl. Prob. 26, p. 690-697. (This is the published part of item 2)

[6] H. Andersson and B. Djehiche (1995): Limit theorems for multitype epidemics. Sto. Proc. Appli. 56 (1995) p. 57-75.

[7] B. Djehiche and I. Kaj (1995): The rate function of some Measure-Valued Jump Processes. The Ann. of Proba. Vol. 23, No 3, p. 1414-1438.

[8] B. Djehiche and T. Kolsrud (1995): Canonical Transformations for Diffusions. C. R. Acad. Sci. Paris. T. 321, Serie I, p. 339-344.

[9] H. Andersson and B. Djehiche (1997): Limit theorems for the total size of a spatial epidemic. J. Appl. Prob. 34, p. 698-710.

[10] B. Djehiche and A. Schied (1998): Large deviations for hierarchical systems of interacting jump processes. J. Theo. Prob. Vol. 11, No. 1, p. 1-24.

[11] H. Andersson and B. Djehiche (1998): A Threshold limit theorem for the stochastic logistic epidemic. Adv. Applied Prob. 35, p. 662-670.

[12] B. Djehiche and I. Kaj (1999): A Sample Path Large Deviations Principle for L^2-Martingale-Measure Processes. Bull. Scien. Math. 123, p. 467-499.

[13] B. Djehiche and M. Eddahbi (1999): Large deviations for a stochastic Volterra-type equation in the Besov-Orlicz space. Stoch. Proc. Appl. 81, p. 39-72.

[14] A. Berkaoui, B. Djehiche and Y. Ouknine (2001): Sur les grandes deviations en theorie de filtrage non lineaire. Studia Mathematica, Vol. 148, No. 1, pp. 5-21.

[15] B. Djehiche and M. Eddahbi (2001): Hedging options in market models modulated by fractional Brownian motion. Stochastic Analysis and Applications, Vol. 19, No. 5, pp. 753-770.

[16] A. Dermoune and B. Djehiche (2001): Pressure–less gas equations with viscosity and nonlinear diffusions. C. R. Acad. Sci. Paris. t. 332, serie 1, p. 745-750.

[17] A. Dermoune and B. Djehiche (2002): Global solution of the pressure–less gas equations with viscosity. Physica D, Vol. 163/3-4, pp. 184-190.

[18] B. Djehiche, M. Eddahbi and Y. Ouknine (2002): A logarithmic Sobolev inequality for one-dimensional multivalued stochastic differential equations. Probability and Mathematical Statistics, vol 22 (1), pp. 13-18.

[19] P. Alaton, B. Djehiche and D. Stillberger (2002): On Modelling and Pricing Weather Derivatives. Applied Mathematical Finance. Volume 9, Number 1/March 01, pp. 1-20.

[20] B. Djehiche and P. Hörfelt (2005): Standard approaches to asset and liability risk. (Invited paper) Scandinavian Actuarial Journal, (5), pp. 377-400.

[21] S. Bahlali, B. Djehiche and B. Mezerdi (2006): Existence and optimality necessary conditions in relaxed control problems. J. Appl. Math. Stoch. Analysis, Art. ID 72762, 23 pp.

[22] K. Bahlali, B. Djehiche and B. Mezerdi (2007):On the stochastic maximum principle in optimal control of degenerate diffusions with Lipschitz coefficients. Appl. Math. and Optim. Vol. 56(3), pp. 364-378.

[23] A. Dermoune, B. Djehiche and N. Rahmania (2008): Consistent estimators of the smoothing parameter in the Hodrick-Prescott Filter. J. Japan Statist. Soc., Vol. 38 (No. 2), pp. 225-241.

[24] S. Bahlali, B. Djehiche and B. Mezerdi (2007): The relaxed stochastic maximum principle in singular optimal control of diffusions. SIAM J. Control and Opt. Vol. 46, No. 2, pp. 427-444

[25] B. Djehiche and S. Hamadène (2009): On a finite horizon starting and stopping problem with risk of abandonment. The International J. of Theoretical and Applied Finance (IJTAF), Vo. 12, No. 4, 523-543.

[26] B. Djehiche and J. Svensson (2009): Large deviations for heavy-tailed factor models. Statistics and Probability Letters (79), pp. 304-311.

[27] T. Arnarson, B. Djehiche, M. Poghosyan, H. Shahgholian (2009): A PDE approach to regularity of solutions to finite horizon optimal switching problems. Nonlinear Analysis, Series A: Theory, Methods and Applications, 71 (12), pp 6054-6067

[28] A. Dermoune, B. Djehiche and N. Rahmania (2009): Multivariate Extension of the Hodrick-Prescott Filter- Optimality and Characterization. Studies in Nonlinear Dynamics and Econometrics: Vol. 13: No.3. http://www.bepress.com/snde/vol13/iss3/art4.

[29] F. Chighoub, B. Djehiche and B. Mezerdi (2009): The stochastic maximum principle in optimal control of degenerate diffusions with non-smooth coefficients. Random Operators and Stochastic Eqs.17, pp. 35-53.

[30] K. Bahlali, F. Chighoub, B. Djehiche and B. Mezerdi (2009): Optimality necessary conditions in singular stochastic control problems with non-smooth coefficients. J. Math. Anal. Appl. 355 (2009), pp. 479-494.

[31] R. Buckdahn, B. Djehiche, J. Li and S. Peng (2009): Mean-Field Backward Stochastic Differential Equations. A Limit Approach. The Annals of Probability, Vol. 37, No. 4, 1524-1565.

[32] B. Djehiche, S. Hamadène and A. Popier (2009): A finite horizon optimal multiple switching problem. SIAM J. Control and Optimization, Volume 48, Issue 4, pp. 2751-2770.

[33] B. Djehiche and A. Gioulekas (2009): Tail risk optimisation. Insights/Q4 2009, IPM Informed Portfolio Management AB, Stockholm.

[34] B. Djehiche, S. Hamadène and I. Hdhiri (2010): Stochastic Impulse Control for Non-Markovian Processes. Applied Math. and Optimization, 61(1), 1-26.

[35] B. Djehiche and J. Rinnè (2010): Can Stocks Help Mend the Asset and Liability Mismatch? Scandinavian Actuarial Journal, 2: 148-160.

[36] D. Andersson and B. Djehiche (2010): A maximum principle for relaxed stochastic control of linear SDE's with application to bond portfolio optimization. Math. Methods in Operations Research, 72(2), 273-310.

[37] D. Andersson and B. Djehiche (2011): A maximum principle for stochastic control of SDE's of mean-field type. Applied Math. and Optimization, 63(3), 341-356.

[38] B. Djehiche, S. Hamadène and M-A. Morlais (2011): Optimal stopping of expected profit and cost yields in an investment under uncertainty. Stochastics, 83(4-6), 431-448.

[39] B. Djehiche, M. N'zi and J-M. Owo (2011): Stochastic viscosity solutions for SPDEs with continuous coefficients. J. Math. Analys. and Applications, 384(1), 63-69.

[40] A. Dermoune, B. Djehiche and N. Rahmania (2011): Estimation of the smoothing parameters in the HPMV filter. Analele Stiintifice ale Universitatii A. I. Cuza, Iasi, Sectiunea Matematica, Vol. LVII, 61-75.

[41] R. Buckdahn, B. Djehiche and J. Li (2011): A General Stochastic Maximum Principle for SDEs of Mean-field type. Applied Math. and Optimization, 64(2), 197-216.

[42] B. Djehiche, M. Marcus and N. Rahmania (2011): On a Graduation Problem involving both the Hodrick-Prescott Filter and Optimal Spline Smoothing. Far East J. Theoretical Statistics, Vol. 36(1), 1-19.

[43] B. Djehiche and N. Rahmania (2013): Modeling and estimating correlated growth and business cycles in a multivariate Hodrick-Prescott filter. Far East J. Theoretical Statistics, (42)1, 41-70.

[44] H. Aro, B. Djehiche and B. Löfdahl (2015): Stochastic modelling of disability insurance in a multi-period framework. Scandinavian Actuarial Journal, (1), 88-106.

[45] B. Djehiche, S. Hamadène and M-A. Morlais (2015): Viscosity solutions of systems of variational inequalities with interconnected bilateral obstacles. Funkcialaj Ekvacioj, 58, 135-175.

[46] B. Djehiche and A. Hamdi (2014): A two-modes mean-field optimal switching for the full balance sheet. International Journal of Stochastic Analysis, Volume 2014 (2014), Article ID 159519.

[47] B. Djehiche and A. Sandström (2014): 100 Years of the Scandinavian Actuarial Journal. In 'Modern Problems in Insurance Mathematics'. Edited by: D. Silvestrov and A. Martin-Löf, EAA series, Springer.

[48] B. Djehiche and B. Löfdahl (2014): Risk aggregation and stochastic claims reserving in disability insurance. Mathematics and Economics 59 (2014), pp. 100-108.

[49] B. Djehiche, H. Tembine and R. Tempone (2015): A Stochastic Maximum Principle for Risk-Sensitive Mean-Field Type Control. IEEE Transactions on Automatic Control. Vol 60(10), pp. 2640-2649.

[50] B. Djehiche and H. Tembine (2015): Risk-Sensitive Mean-Field Type Control under Partial Observation. In Stochastics in environmental and financial economics (edited by F. E. Benth and G. Di Nunno), Springer Proceedings in Mathematics and Statistics.

[51] B. Djehiche and A. Hamdi (2015): A full balance sheet two-modes optimal switching problem. Stochastics and Stochastics Reports, 87:4, 604-622, DOI: 10.1080/17442508.2014.991324.

[52] B. Djehiche and M. Huang (2016): A characterization of sub-game perfect equilibria for SDEs of mean field type. Dynamic Games and Applications. March 2016, Volume 6, Issue 1, pp 55-81.

[53] B. Djehiche and B. Löfdahl (2016): Aggregation of one-year risks in life and disability insurance. Annals of Actuarial Science, 10(02), pp.203-221.

[54] B. Djehiche and H. Nassar (2016): A Functional Hodrick-Prescott Filter. Journal of Inverse and Ill-Posed Problems (JIIP), Vol. 25, no 2, p. 135-148, DeGruyter DOI: 10.1515/jiip-2015-0111.

[55] B. Djehiche, A. Hilbert and H. Nassar (2016): On the functional Hodrick-Prescott filter with non-compact operators. Random Operators and Stochastic Equations. Volume 24, Issue 1, Pages 33-42, February 2016.

[56] B. Djehiche and B. Löfdahl (2016): Nonlinear reserving in life insurance: aggregation and mean-field approximation. Insurance: Mathematics and Economics 69 (2016): 1-13.

[57] B. Djehiche, S. Hamadène, M-A. Morlais and Xuzhe Zhao (2017): On the Equality of Solutions of Max-Min and Min-Max Systems of Variational Inequalities with Interconnected Bilateral Obstacles. J. Math. Anal. Appl. 452(1), 148-175.

[58] B. Djehiche, A. Tcheukam and H. Tembine (2017): A Mean-Field Game of Evacuation in Multi-Level Building. IEEE Transactions on Automatic Control, 62(10), pp. 5154-5169.

[59] B. Djehiche, A. Tcheukam and H. Tembine (2017): Mean-Field-Type Games in Engineering. AIMS Electronics and Electrical Engineering, 2017, 1(1): 18-73 (open access journal).

[60] B. Djehiche and B. Löfdahl (2018): A hidden Markov approach to disability insurance. North American Actuarial Journal, 22:1, 119-136, DOI: 10.1080/10920277.2017.1387570.

[61] A. Aurell and B. Djehiche (2018): Mean-field type modeling of nonlocal crowd aversion in pedestrian crowd dynamics. SIAM Journal of Control and Optimization, 56(1), 434-455.

[62] B. Djehiche and S. Hamadène (2018): Optimal control and zero-sum stochastic differential game problems of mean-field type. Applied Mathematics & Optimization(2020) 81:933-960. DOI 10.1007/s00245-018-9525-6

[63] B. Djehiche, J. Barriero-Gomez, H. Tembine (2019): Price dynamics for electricity in smart grid via mean-field-type games. Chapter 3 (pp. 45-64) in: Beyond Traditional Probabilistic Methods in Economics. Editors: Vladik Kreinovich, Nguyen Duc Trung, and Nguyen Ngoc Thach. Series Title: Studies in Computational Intelligence (809), Springer (2019).

[64] S. Choutri, B. Djehiche and H. Tembine (2019): Optimal Control and Zero-Sum Games for Markov Chains of Mean-Field Type. Mathematical Control & Related Fields vol. 9(3), September 2019.

[65] S. Choutri and B. Djehiche (2019): Mean-field risk sensitive control and zero-sum games for Markov chains. Bull. Sci. math. 152 (2019) 1-39.

[66] A. Aurell and B. Djehiche (2019): Modeling tagged pedestrian motion: a mean-field type game approach. Transportation Research Part B: Methodological, 121, pp 168-183.

[67] X. Wang, B. Djehiche, X. Hu (2019): Credit rating analysis based on the network of trading information". Journal of Network Theory in Finance (Risk journals) 5(1), pp 47-65 (July 2019).

[68] J. Barreiro-Gomez, B. Djehiche and H. Tembine (2020): Price Dynamics for Electricity in Smart Grid Via Mean-Field-Type Games. Dynamic Games and Applications (DGAA) https://doi.org/10.1007/s13235-020-00367-8

[69] A. Bensoussan, B. Djehiche, H. Tembine and P. Yam (2020): Mean-Field-Type games with jump and regime switching. Dynamic Games and Applications (2020) 10:19-57 https://doi.org/10.1007/s13235-019-00306-2.

[70] M-K. Dao and B. Djehiche (2020): Hamilton-Jacobi equations for optimal control on multidimensional junctions with entry costs. Nonlinear Differ. Equ. Appl. (NDEA) 27, Article number: 23 (2020). https://doi.org/10.1007/s00030-020-0625-z

[71] A. Aurell and B. Djehiche (2020): Behavior near walls in the mean field approach to crowd motion. SIAM J. Appl. Math., 80(3), 1153-1174.

[72] Y. Li, X. Wang, B. Djehiche, X. Hu (2020): Credit Scoring by Incorporating Dynamic Network Information. European Journal of Operational Research (DOI: https://doi.org/10.1016/j.ejor.2020.03.078). Volume 286, Issue 3, 1 November 2020, Pages 1103-1112.

[73] M. C. Christiansen and B. Djehiche (2020): Nonlinear reserving and multiple contract modifications in life insurance. Insurance: Mathematics and Economics 93 (2020) 187-195.

[74] X. Wang, M. Hu, Y. Zhao and B. Djehiche (2020): Credit Scoring Based on the Set-Valued Identification Method Journal of Systems Science and Complexity. Pub Date: 2020-04-17, DOI: 10.1007/s11424-020-9101-4

[75] B. Bouchard, B. Djehiche and I. Kharroubi (2020): Quenched mass transport of particles towards a target. Journal of Optimization Theory and Applications. DOI: 10.1007/s10957-020-01704-y

[76] B. Djehiche, O. Mazhar and C. Rojas (2020): Finite impulse response models: A non-asymptotic analysis of the least squares estimator. Bernoulli 27(2), 2021, 976-1000.

[77] Y. Chen, B. Djehiche and S. Hamadene (2019): Mean-field backward-forward stochastic differential equations and nonzero sum stochastic differential games (preprint: arXiv:1904.06193v2). Stochastics and Dynamics, Vol. 21, No. 6 (2021) 2150036 DOI: 10.1142/S0219493721500362

[78] B. Djehiche, S. Hamadene, I. Hdhiri, H. Zaatra (2019): Infinite Horizon Stochastic Impulse Control with Delay and Random Coefficients (preprint: arXiv:1904.11924). Mathematics of Operations Research. https://doi.org/10.1287/moor.2021.1145

[79] B. Djehiche, R. Elie and S. Hamadène (2019): Mean-field reflected backward stochastic differential equations (preprint: arXiv:1911.06079, November 2019). The Annals of Applied Probability, vol. 33, no. 4, pp. 2493-2518, 2023.

[80] N. Agram, B. Djehiche (2020): Reflected Backward Stochastic Volterra Integral Equations and related time-inconsistent optimal stopping problems. Systems & Control Letters 155 (2021) 104989.

[81] B. Djehiche and B. Löfdahl (2021): Quantum support vector regression for disability insurance (Preprint:arXiv:2109.01570, September 2021). Risks9: 216. https://doi.org/10.3390/risks9120216.

[82] B. Djehiche, F. Gozzi, G. Zanco and M. Zanella (2022): Optimal portfolio choice with path dependent benchmarked labor income: a mean field model (preprint: arXiv:2009.03922, September 2020). Stochastic processes and their applications, 145, pp. 48-85.

[83] B. Djehiche, H. Hult and P. Nyquist (2021): Importance sampling for a simple Markovian intensity model using subsolutions. To appear in the Transactions on Modeling and Computer Simulation (TOMACS).

[84] B. Djehiche, R. Elie and S. Hamadène (2023): Mean-field reflected backward stochastic differential equations (preprint: arXiv:1911.06079, November 2019). The Annals of Applied Probability, vol. 33, no. 4, s. 2493-2518, 2023.

[85] B. Djehiche and M. Martini (2023): Time-inconsistent mean-field optimal stopping: A limit approach.Journal of Mathematical Analysis and Applications, Volume 528, Issue 1, 2023, 127582, ISSN 0022-247X, https://doi.org/10.1016/j.jmaa.2023.127582.

[86] N. Chikhi and B. Djehiche (2024): Patients transportation in surgery scheduling problem. Journal of Systems Science and Complexity. DOI 10.1007/s11424-024-3073-8.

[87] B. Djehiche (2024): On the value of a time-inconsistent mean-field zero-sum Dynkin game. Math Finan Econ 18, 483–513 (2024). https://doi.org/10.1007/s11579-024-00367-x

[88] B. Djehiche and H. Tembine (2024): The outcomes of generative AI are exactly the Nash equilibria of a non-potential game. In: Ngoc Thach, N., Trung, N.D., Ha, D.T., Kreinovich, V. (eds) Partial Identification in Econometrics and Related Topics. Studies in Systems, Decision and Control, vol 531. Springer, Cham. https://doi.org/10.1007/978-3-031-59110-5-4.

[89] B. Djehiche and R. Dumitrescu (2024): Zero-sum mean-field Dynkin games: characterization and convergence. (Preprint: arXiv:2202.02126, February 2022). To appear in Mathematics of Operations Research.

[90] B. Djehiche and P. Helgesson (2024): A risk based approach to the principal-agent problem Asian Journal of Economics and Banking, 2024, vol. 8, issue 3, 310-334.

[91] S. Rujivan, N. Thamrongrat, P. Juntanon and B. Djehiche (2025): Analytical computation of conditional moments in the extended Cox-Ingersoll-Ross process with regime switching: Hybrid PDE system solutions with financial applications. Mathematics and Computers in Simulation, Vol. 229, s. 176-202.

[92] Djehiche, B., and Mazhar, O. (2025). An optimal non-asymptotic journey through system identification with least squares. In N. N. Thach, N. D. Trung, D. T. Ha, & V. Kreinovich (Eds.), Artificial Intelligence and Machine Learning for Econometrics: Applications and Regulation and Related Topics. Springer, Studies in Systems, Decision, and Control series.

[93] A. Sutchada, S. Rujivan, B. Djehiche (2025): Analytical Pricing of Commodity Futures with Correlated Jumps and Seasonal Effects: An Empirical Study of Thailand's Natural Rubber Market. Mathematics 2025, 13, 770. https://doi.org/10.3390/ math13050770.

[94] S. Choutri, B. Djehiche and O. Mazhar (2025): Empirical Validation of Novel Non-Asymptotic Bounds on the Least Squares Estimator for LTI Systems (to appear in Asian Journal of Economics and Banking).

Conference Proceedings (refereed)

- A. Tcheukam, B. Djehiche and H. Tembine (2016): Evacuation of Multi-Level Building: Design, Control and Strategic Flow. Proceedings of the 35th Chinese Control Conference July 27-29, 2016, Chengdu, China.

- A. Bensoussan, B. Djehiche, H. Tembine and Ph. Yam (2017): Risk-Sensitive Mean-Field-Type Control. Proceedings of the 56th IEEE Conference on Decision and Control December 12-15, 2017, Melbourne Convention Center, Melbourne, Australia.

- J. Barreiro-Gomez, B. Djehiche and H. Tembine (2018): Electricity Price Dynamics in the Smart Grid: A Mean-Field-Type Game Perspective. 23rd International Symposium on Mathematical Theory of Networks and Systems Hong Kong University of Science and Technology, Hong Kong, July 16-20, 2018.

- J. Barreiro-Gomez, B. Djehiche, T. E. Duncan, B. Pasik-Duncan, H. Tembine (2019): Fractional Mean-Field-Type Games under Non-Quadratic Costs: A Direct Method. Proceedings of the 2019 IEEE Conference on Decision and Control (CDC).

- J. Barreiro-Gomez, S. Choutri, B. Djehiche, Z. Frihi, H. Tembine (2020): Stackelberg Mean-Field-Type Games with Polynomial Cost. Proceedings of the 21st IFAC World Congress in Berlin, Germany, July 12-17, 2020.

- J. Barreiro-Gomez, S. Choutri, B. Djehiche (2023): Stability Via Adversarial Training of Neural Network Stochastic Control of Mean-Field Type. 2022 IEEE 61ST CONFERENCE ON DECISION AND CONTROL (CDC), Institute of Electrical and Electronics Engineers (IEEE) , 2022, s. 7547-7552.

Manuscripts and preprints

- C. Carlemalm and B. Djehiche (1996): On the problem of blind deconvolution using a stochastic differential calculus approach. Trita-Mat-

1996-MS-06. Dept of Math. The Royal Institute of Technology.

- B. Djehiche (2004): Some remarks on the valuation of insurance contracts and related strategic asset allocation. Internal report, Skandia Liv, Stockholm.
- B. Djehiche and A. Gioulekas (2005): How to combine strategies while keeping draw downs at a minimum. Internal report, IPM Informed Portfolio Management, Ltd.
- A. de Ridder and B. Djehiche (2007): Extreme Day Returns: Evidence from Sweden (Preprint).
- Y. Bineau, B. Djehiche and N. Rahmania (2009): A new multivariate approach for measuring equilibrium models: Application to US data.
- B. Djehiche, H. Hult and P. Nyquist (2014): Min-max representations of viscosity solutions of Hamilton-Jacobi equations and applications in rare-event simulation. Preprint. arXiv:1406.3605.
- B. Djehiche and P. Helgesson (2014): The Principal-Agent Problem; A Stochastic Maximum Principle Approach. Preprint. arXiv:1410.6392v2.
- B. Djehiche and H. Tembine (2014): On the Solvability of Risk-Sensitive Linear-Quadratic Mean-Field Games. Preprint. arXiv:1412.0037.
- A. Bensoussan, B. Djehiche, H. Tembine and P. Yam (2017): Risk-Sensitive Mean-Field-Type Control (preprint: arXiv:1702.01369, February 2017).
- B. Djehiche, O. Mazhar (2021): Non asymptotic estimation lower bounds for LTI state space models with Cramèr-Rao and van Trees (preprint: arXiv:2109.08582, September 2021).
- B. Djehiche, R. Dumitrescu and J. Zeng (2022): A propagation of chaos result for weakly interacting nonlinear Snell envelopes (preprint: arXiv:2111.14315, January 2022).
- S. Liang, K-N. Wu, B. Djehiche and X. Hu (2024): Nonlinear boundary control for stochastic generalized Burgers-KdV equations with Levy noise (submitted).
- C. Bayer, B. Djehiche, E. Rezvanova and R.F. Tempone (2024): Continuous-time Stochastic optimal control under discrete time partial observations. (Preprint: arXiv:2407.18018, July 2024).

- B. Djehiche, H. Geiss, S. Geiss, C. Labart, J. Nykänen (2024): Convergence rate for random walk approximations of mean field BSDEs. (Preprint: arXiv:2409.14212, September 2024).

- B. Djehiche and S. Hamadene (2025): Discrete-time stochastic impulse control with delay. (Preprint: arXiv:2501.10444, January 2025).

- Boualem Djehiche, Tyrone E. Duncan, Bozenna Pasik-Duncan, Hamidou Tembine (2025): Singular Mean-Field-Type Game Theory (submitted).

Books and lecture Notes

- H. Andersson and B. Djehiche (1997): An Introduction To Martingale Theory. Lecture Notes. Inst. Actuar. Math. and Math. Stat. Stockholm University.

- B. Djehiche (2000): Stochastic calculus. An introduction with applications. Lecture Notes. Dept. Math. The Royal Institute of Technology.

- B. Djehiche (2000): Extremes. An overview with applications.

- A. Dermoune and B. Djehiche (2001): A probabilistic family of solutions of the pressure–less gas equations. Preprint, Université de Lille, France.

- B. Djehiche (2012): The stochastic maximum principle. An introduction with applications.

- B. Djehiche and R. Tempone (2014): Quantitative Risk Analysis. A Short Introduction Towards Engineering Applications.

- T. Basar, B. Djehiche and H. Tembine (2025): Mean-Field-Type Game Theory I: Foundations and New Directions, (book submitted).

- T. Basar, B. Djehiche and H. Tembine (2025): Mean-Field-Type Game Theory II: Application, (book submitted).