

Publications

- T. E. Duncan, B. Maslowski and B. Pasik-Duncan, Linear-quadratic control for stochastic equations in a Hilbert space with fractional Brownian motions, to appear in *SIAM J. Control Optimization*
- T. E. Duncan, B. Maslowski and B. Pasik-Duncan, Control of some linear stochastic systems in a Hilbert space with fractional Brownian motion, *16th International Conference on Methods and Models in Automation and Robotics, MMAR*, 2011, Miedzyzdroje, IEEE, pp. 107-110
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Control of some linear equation in a Hilbert space with fractional Brownian motions, *Proceedings of the 18th IFAC World Congress*, S. Bittanti, A. Cenedese, S. Zampieri Ed., Milano, 2011, 12 pp.
- B. Goldys and B. Maslowski, On stochastic ergodic control in infinite dimensions, *Seminar on Stoch. Anal. Random Fields and Appl. VI*, Ascona, R. Dalang, M. Dozzi and F. Russo Ed., Birkhauser, 2011, 95-109
- M.J.Garrido-Atienza, B.Maslowski and B.Schmalfuss, Random attractors for stochastic equations driven by fractional Brownian motion, *Internat. J. of Bifurcation and Chaos* 20 (2010), 2761-2782
- T.E.Duncan, B.Maslowski a B.Pasik-Duncan, Semilinear stochastic equations in a Hilbert space with a fractional Brownian motion, *SIAM J. Math. Analysis*, 40 (2009), 2286-2315
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Solutions to linear and semilinear distributed parameter equations with a fractional Brownian motion, *Internat.J. Adaptive Control Signal Processing*, 23 (2009), 114-130
- B.Goldys and B.Maslowski, Ornstein-Uhlenbeck bridge and applications to Markov semigroups, *Stochastic Process. Appl.*, 118 (2008), 1738-1767
- B.Maslowski and J.Pospíšil, Ergodicity and parameter estimates for infinite-dimensional fractional Ornstein-Uhlenbeck process, *Appl. Math. Optim.* 57 (2008), 401-429
- B.Maslowski, Stochastic Equations and Stochastic Methods in Partial Differential Equations, (Lecture Notes), *Proceedings of Seminar in Diff. Eq.*, pp. 8-62, Plzen, 2007
- B.Maslowski and J.Pospíšil, Parameter estimates for linear PDEs with fractional boundary noise, *Commun. Inf. Syst.* 7 (2007), 1-20

- T. E.Duncan, B.Maslowski and B.Pasik-Duncan, Some solutions to semilinear stochastic equations in a Hilbert space with a fractional Brownian motion, *Proceedings, 45th IEEE CDC Conference, San Diego*, 3077-3082
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Linear stochastic equations in a Hilbert space with a fractional Brownian motion, a chapter in the book *Control Theory Applications in Financial Engineering and Manufacturing*, Chapter 11, 201-222, Springer-Verlag, 2006
- B.Goldys and B.Maslowski, Lower estimates of transition densities and bounds on exponential ergodicity for stochastic PDE's, *Ann. Probab.* 34 (2006), 1451-1496
- B.Goldys and B.Maslowski, Exponential ergodicity for stochastic Burgers and 2D Navier-Stokes equations, *J.Funct. Anal.* 226 (2005), 230-255
- B.Goldys and B.Maslowski, Exponential ergodicity for stochastic reaction-diffusion equations, *Proceedings SPDE's*, 2005, 115-132
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Stochastic equations in Hilbert space with a multiplicative fractional Gaussian noise, *Stochastic Process. Appl.* 115 (2005), 1357-1383
- Z.Brzezniak, B.Maslowski and J.Seidler, Stochastic nonlinear beam equations, *Probab.Theory Related Fields* 132(2005), 119-149
- B.Maslowski and B.Schmalzfuss, Random dynamical systems and stationary solutions of differential equations driven by the fractional Brownian motion, *Stochastic Anal.Appl.*, 22 (2004), 1577-1609
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Solutions to linear distributed parameter equations with multiplicative fractional Gaussian noise, *Proceedings*, 11th Mediterranean Conf. on Automation and Control, Rhodes, June 2004, 4 pp.
- B.Maslowski and D.Nualart, Evolution equations driven by a fractional Brownian motion, *J. Funct. Anal.* 202 (2003), 277-305
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Some properties of linear distributed parameter systems with fractional Brownian motion, *CDC Proceedings*, Orlando, 2002, 808-812
- M.Dozzi and B.Maslowski, Nonexplosion of solutions to stochastic reaction-diffusion equations, *Zeitschrift Angew.Math.Mech.* 82(2002), 745-751
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Fractional Brownian motion and stochastic equations in Hilbert spaces, *Stoch. Dyn.* 2(2002), 225-250
- B. Maslowski and B.Goldys, Parameter estimation for controlled nonlinear stochastic PDE's, *J.Multivariate Anal.* 80(2002), 322-343

- B.Maslowski and J.Seidler, Strong Feller infinite dimensional diffusions, *Proceedings, Trento 2000*, 373-389, Lecture Notes in Pure and Applied Mathematics, Marcel Dekker, 2002
- R.Manthey and B.Maslowski, A random continuous model for two interacting populations, *Appl Math.Optim.* 45(2002), 213-236
- B.Goldys and B.Maslowski, Uniform exponential ergodicity of stochastic dissipative systems, *Czech. Math.J.* 51(126)(2001), 745-762
- B.Maslowski and J.Seidler, Strong Feller solutions to SPDE's are strong Feller in the weak topology, *Studia Mathematica* 148(2001), 111-129
- B.Maslowski and I.Simao, Long-time behaviour of non-autonomous SPDE's, *Stochastic Proc. Appl.* 95(2001), 285-309
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Adaptive control for semilinear stochastic systems, *SIAM J.Control Optim.* 38(2000), 1683-1706
- B.Maslowski and J.Seidler, Probabilistic approach to the strong Feller property, *Probab.Theory Related Fields* 118(2000), 187-210
- B.Maslowski and J.Seidler, On sequentially weakly Feller solutions to SPDEs, *Rend. Mat. Acc. Lincei* 10(1999), 69-78
- B.Goldys and B.Maslowski, Ergodic control of semilinear stochastic equations and Hamilton-Jacobi equations, *J.Math.Anal.Appl.*, 234 (1999), 592-631
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Some results on the adaptive control of stochastic semilinear systems, *37th CDC Proceedings, Tampa, 1999*, 3462-3466
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Ergodic distributed control of stochastic semilinear systems, *37th CDC Proceedings, Tampa, 1999*, 2347-2352
- G.Leha, B.Maslowski and G.Ritter, Stability of solutions to semilinear stochastic evolution equations, *Stoch.Anal. Appl.* 17 (1999), 1009-1051
- B.Maslowski and J.Seidler, Invariant measures for nonlinear SPDE's: Uniqueness and stability, *Arch.Math.* 34 (1998),153-172
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Ergodic control of some stochastic semilinear systems in Hilbert spaces, *SIAM J.Control Optim.* 36 (1998), 1020-1047
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Ergodic distributed control for parameter dependent stochastic semilinear systems *Stochastic Differential and Difference Equations*, Proceedings, 43-58, Birkhauser,1997
- B.Maslowski and I.Simao, Asymptotic properties of stochastic semilinear equations by the method of lower measures, *Colloquium Math.*, 72 (1997), 147-171

- F.Flandoli and B.Maslowski, Ergodicity of the 2-D Navier-Stokes equation under random perturbations, *Commun.Math. Physics* 171(1995), 119-141
- B.Maslowski, Asymptotic properties of stochastic equations with boundary and pointwise noise, *Stochastic Processes Related Topics*, Proceedings, Stochastics Monographs 10, Gordon and Breach Publ., 1996, 67-77
- B.Maslowski, Stability of semilinear equations with boundary and pointwise noise, *Annali Scuola Normale Superiore Pisa*, Serie IV, 22(1995), 55-93
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Adaptive boundary control of linear distributed parameter systems described by analytic semigroups, *Appl. Math. Optim.*, 33(1996), 107-138
- B.Maslowski and J.Seidler, Ergodic properties of recurrent solutions of semilinear stochastic evolution equations, *Osaka J.Math.*, 31(1994), 969-1003
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Adaptive boundary and point control of linear stochastic distributed parameter systems, *SIAM J.Control Optim.*, 32(1994), 648-672
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Adaptive boundary and point control of linear stochastic distributed parameter systems, *32nd CDC Conference*, Proceedings, San Antonio, 1993, 369-374
- B.Maslowski, J.Seidler and I.Vrkoc, Integral continuity for stochastic hyperbolic equations, *Differential Integral Equations* 6(1993), 355-382
- B.Maslowski, On probability distributions of solutions of semilinear stochastic evolution equations, *Stochastics Stochastics Rep.*, 32(1993), 17-44
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, Some aspects of the adaptive boundary and point control of linear distributed parameter systems, *31st CDC Conference*, Proceedings, Tucson, 1992, 1077-1081
- T.E.Duncan, B.Maslowski and B.Pasik-Duncan, On boundary control of unknown linear stochastic distributed parameter systems, *System Modelling and Optimization*, Proceedings, Lecture Notes in Control Inf.Sci. 180, Springer, 1992, 500-509
- R.Manthey and B.Maslowski, Qualitative behaviour of solutions of stochastic reaction-diffusion equations, *Stochastic Processes Appl.* 43(1992), 265-289
- B.Maslowski, On ergodic behaviour of solutions to systems of stochastic reaction - diffusion equations with correlated noise, *Stochastic Processes Related Topics*, Proceedings, Mathematical Research 61, Akademie-Verlag 1991, 93-103
- B.Maslowski, J.Seidler and I.Vrkoc, An averaging principle for stochastic evolution equations II, *Mathematica Bohemica* 116(1991), 191-224

- B.Maslowski, Stability and averaging properties of stochastic evolution equations, Proceedings, *Equadiff 7*, Teubner-Texte zur Mathematik, 118, Leipzig, 1990, 100-103
- B.Maslowski, Strong Feller property for semilinear stochastic evolution equations and applications, Proceedings of the IFIP WG7.1 Conference, *Lecture Notes in Control and Information Sciences*, 136, Springer, 1989, 210-225
- B.Maslowski, Uniqueness and stability of invariant measures for stochastic differential equations in Hilbert spaces, *Stochastics Stochastics Rep.* 28(1989), 85-114
- B.Maslowski, Weak stability of a certain class of Markov processes and applications to nonsingular stochastic differential equations, *Serdica*, 114(1988), 34-43
- B.Maslowski, An application of l-condition in the theory of stochastic differential equations, *Casopis pest.mat.* 112(1987), 296-307
- B.Maslowski, Stability of invariant measure of a stochastic differential equation describing molecular rotation, *Aplikace mat.*, 32(1987), 346-354
- B.Maslowski, On a certain type of stability of nontrivial solutions of stochastic differential equations, *Proceedings, Differential Equations and Applications Rouse*, 1987,813-817
- B.Maslowski, On some stability properties of stochastic differential equations of Ito's type, *Casopis pest.mat.* 111(1986), 404-423