UNCERTAINTY FUNCTIONAL DIFFERENTIAL EQUATIONS FOR FINANCE

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Abstract. In this paper, we prove a local existence and uniqueness result for uncertain functional differential equation driven by canonical process.

Full text

References

[1] J. K. Hale, *Theory of Functional Differential Equations*, Second edition. Applied Mathematical Sciences, Vol. **3**. Springer-Verlag, New York-Heidelberg, 1977. MR508721(58 #22904). Zbl 0352.34001.

[2] B. Liu, *Fuzzy process, hybrid process and uncertain process*, Journal of Uncertain Systems, **2**(1) (2008), 3–16.

[3] B. Liu, *Uncertainty Theory*, Second edition, Springer, Berlin, 2007. MR2515179 00A17.

[4] B. Liu and Y.K. Liu, *Expected value operator of random fuzzy variable and random fuzzy expected value models*. Internat. J. Uncertain. Fuzziness Knowledge-Based Systems **11**(2) (2003), 195–215. MR1982216 (2004d:90142). Zbl 1074.90056.

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