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## DIFFERENTIAL EQUATIONS

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expansion provides the  
basis for the discrete time  
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new results on high-order methods for strong sample path approximations and for weak functional approximations, including implicit, predictor-corrector, extra-polation and variance-reduction methods.

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Kloeden, Eckhard Platen:

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failure and repair rates.

~~Numerical solution of  
stochastic partial~~

~~differential...~~

Numerical solutions.

Numerical methods for  
solving stochastic

differential equations

include the

Euler – Maruyama

method, Milstein

method and

Runge – Kutta method

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Numerical

(SDE). Use in physics

Stochastic differential equation — Wikipedia

In Itô calculus, the Euler – Maruyama method (also called the Euler method) is a method for the approximate numerical solution of a stochastic differential equation (SDE). It is a simple generalization of the

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Numerical

Euler method for  
ordinary differential  
equations to stochastic  
differential equations.

Equations With

~~Euler—Maruyama  
method—Wikipedia~~

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modeling and other areas  
of application, stochastic  
differential equations  
with jumps have been  
employed to describe the  
dynamics of various state

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Numerical

variables. The numerical solution of such equations is more complex than that of those only driven by Wiener processes, described in Kloeden & Platen: Numerical Solution of Stochastic Differential Equations (1992).

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~~Differential...~~

We consider the problem of the numerical solution of stochastic delay

differential equations of

Itô form

$$dX(t) = f(X(t), X(t - \tau)) dt$$

$$+ g(X(t), X(t - \tau)) dW(t), \quad t \in [0, T]$$

and

$$X(t) = \phi(t) \text{ for } t \in [-\tau, 0],$$

with given

$f, g$ , Wiener noise  $W$  and

given  $\tau > 0$ , with a

prescribed initial

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Numerical

function . We indicate the nature of the equations of interest and give a convergence proof for explicit single-step methods.

~~Introduction to the numerical analysis of stochastic delay ...~~

This study is concerned with numerical approximations of time-fractional stochastic heat-

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Numerical

type equations driven by multiplicative noise, which can be used to model the anomalous diffusion in porous media with random effects with thermal memory. A standard finite element approximation is used in space as well as a spatial-temporal discretization which is achieved by a new algorithm in time ...

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Solution Of

~~Numerical solutions to  
time-fractional stochastic  
partial ...~~

~~Numerical solution of  
stochastic state-  
dependent delay  
differential equations:~~

~~convergence and stability~~

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~~solution of stochastic  
state dependent ...~~

odeint is a collection of numerical algorithms for integrating Ito and Stratonovich stochastic ordinary differential equations (SODEs). It has simple functions that can be used in a similar way to

scipy.integrate.odeint()  
or MATLAB 's ode45 .

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In this article, a new numerical method based on triangular functions for solving nonlinear stochastic differential equations is presented.

For this, the stochastic operational matrix of triangular functions for  $I_t^{\alpha}$  integral are determined.

Computation of presented method is very

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Numerical

simple and attractive.

Computational Method  
for Fractional-Order  
Stochastic Delay ...

Numerical solution of  
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equations with Poisson  
and Lévy white noise.

Phys Rev E Stat Nonlin  
Soft Matter Phys. 2009;  
80(2 Pt 2):026704 (ISSN:  
1539-3755) Grigoriu M.

A fixed time step method

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Numerical

is developed for  
integrating stochastic  
differential equations  
(SDE's) with Poisson  
white noise (PWN) and  
Lévy white noise  
(LWN).

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equations ...~~

In addition, this method  
can be easily extended to  
solve nonautonomous



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Abstract. This paper is devoted to a new numerical approach for the possibility of

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$\epsilon$ -periodic Lipschitz shadowing of a class of stochastic differential equations. The existence of  $\epsilon$ -periodic Lipschitz shadowing orbits and expression of shadowing distance are established. The numerical implementation approaches to the shadowing distance by the random Romberg

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