

Introduction To The Numerical Solution Of Markov Chains

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~~Introduction to the Numerical Solution of IVP for ODE~~

solution $y = w(x)$ to the differential equation $y' = f(x,y)$ satisfying the initial condition $w(x_0) = z$ is defined for all $x \in [x_0, X_M]$ and satisfies $\|w(x) - w(x')\| < \epsilon$ for all $x, x' \in [x_0, X_M]$. A solution which is stable on $[x_0, \infty)$ (i.e. stable on $[x_0, X_M]$ for each X_M and with ϵ independent of X_M) is said to be stable in the sense of Lyapunov.

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The solution on $t \in [0,1]$ is given by $X(t) = e^{at} + b \int_0^t e^{a(t-s)} W(s) ds$. We have then used this solution as a starting function to compute an 'explicit solution' on the second interval $[1,2]$ with a standard SODE-method and a small stepsize. In the case of multiplicative noise we have computed an 'explicit solution' on a very fine grid (2048 steps) with the Euler-Maruyama scheme.

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