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Lorenz Attractor: Source Code

Source Code

The source code to simulate the Lorenz attractor in GNU Octave follows.

% Lorenz Attractor equations solved by ODE Solve

% Using LSODE to solve the ODE system.

lsode_options"absolute tolerance",1e−3

lsode_options"relative tolerance",1e−4

X,T,MSG=lsode@lorenzatt,X0,t;

Other Relevant or Related Items

- List of chaotic maps
- Takens' theorem
- Mandelbrot set

- Jonas Bergman, Knots in the Lorentz Equation, Undergraduate thesis, Uppsala University 2004.

- .
- .

Image Gallery :: Lorenz Attractor Source Code
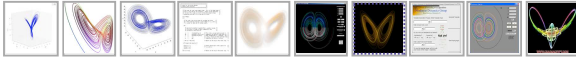
Related Resources : Lorenz Attractor

01. **demonstrations.wolfram.com/LorenzAttract** : Lorenz attractor by Rob Morris, Wolfram Demonstrations Project.
02. **planetmath.org/encyclopedia/LorenzEquati** : Lorenz equation on planetmath.org
03. **mizuno.org/c/la/index.shtml** : For drawing the Lorenz attractor, or coping with a similar situation using ANSI C and gnuplot.
04. **toxi.co.uk/lorenz** : Lorenz attractor interactive animation (you need the Adobe Shockwave plugin)
05. **levitated.net/daily/levLorenzAttractor.h** : Levitated.net: computational art and design
06. **amath.colorado.edu/~juanga/3DAttractors.** : 3D Attractors: Mac program to visualize and explore the Lorenz attractor in 3 dimensions
07. **ibiblio.org/e-notes/VRML/Lorenz/Lorenz.h** : 3D VRML Lorenz attractor (you need a VRML viewer plugin)
08. **jsoftware.com/jwiki/Essays/Lorenz_Attrac** : Essay on Lorenz attractors in J – see J programming language
09. **student.fiit.stuba.sk/~bachratv02/mes/ap** : Applet for non-linear simulations (select "Lorenz attractor" preset), written by Viktor Bachraty in Jython
10. **frank.harvard.edu/~paulh/misc/lorenz.htm** : Lorenz Attractor implemented in analog electronic
11. **martinlaprise.info/2010/02/28/visualizin** : Visualizing the Lorenz attractor in 3D with Python and VTK

Related Resources :: Lorenz Attractor Source Code

01. **Lorenz Attractor Source Code Documentation** – Makefile Up No Title Previous Analysis of Congeniality. Lorenz Attractor Source Code Documentation. This appendix contains the source code used in experimenting with the Lorenz attractor
02. **The Lorenz Attractor** – C source code with comments to draw the Lorenz attractor, or coping with a similar situation. Many plotting softwares, e.g. gnuplot and Excel can be used for drawing the result.
03. **Source Code** – Of the programs below, only the Lorenz attractor animation is interactive. The others all require changes to the source code and recompilation if you want them to
04. **Lorenz Attractor Information, Lorenz Attractor Reference Articles** – Source code The source code to simulate the Lorenz attractor in GNU Octave follows. Lorenz Attractor equations solved by ODE Solve x' sigma y–x

Related Categories

01. **Category:Chaotic maps**