

Hugo A De La Cruz

List of Publications by Year in descending order

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19
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19
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87
citing authors

#	ARTICLE	IF	CITATIONS
1	The Local Linearization Method for Numerical Integration of Random Differential Equations. BIT Numerical Mathematics, 2005, 45, 1-14.	1.0	31
2	Locally Linearized methods for the simulation of stochastic oscillators driven by random forces. BIT Numerical Mathematics, 2017, 57, 123-151.	1.0	31
3	A higher order local linearization method for solving ordinary differential equations. Applied Mathematics and Computation, 2007, 185, 197-212.	1.4	23
4	High order local linearization methods: An approach for constructing A-stable explicit schemes for stochastic differential equations with additive noise. BIT Numerical Mathematics, 2010, 50, 509-539.	1.0	17
5	Convergence rate of strong Local Linearization schemes for stochastic differential equations with additive noise. BIT Numerical Mathematics, 2012, 52, 357-382.	1.0	14
6	Local Linearization-Runge-Kutta methods: A class of A-stable explicit integrators for dynamical systems. Mathematical and Computer Modelling, 2013, 57, 720-740.	2.0	13
7	Numerical simulation of nonlinear dynamical systems driven by commutative noise. Journal of Computational Physics, 2007, 226, 1219-1233.	1.9	8
8	Stabilized explicit methods for the approximation of stochastic systems driven by small additive noises. Chaos, Solitons and Fractals, 2020, 140, 110195.	2.5	5
9	Local Linearization-Runge Kutta (LLRK) Methods for Solving Ordinary Differential Equations. Lecture Notes in Computer Science, 2006, , 132-139.	1.0	5
10	Efficient computation of phi-functions in exponential integrators. Journal of Computational and Applied Mathematics, 2020, 374, 112758.	1.1	3
11	On the oscillatory behavior of coupled stochastic harmonic oscillators driven by random forces. Statistics and Probability Letters, 2019, 146, 85-89.	0.4	2
12	Steady-state density preserving method for stochastic mechanical systems. European Physical Journal Plus, 2021, 136, 1.	1.2	2
13	On the numerical integration of a random integral equation arising in the simulation of stochastic transport equations. , 2013, , .		0
14	Exact pathwise simulation of multi-dimensional Ornstein-Uhlenbeck processes. Applied Mathematics and Computation, 2020, 366, 124734.	1.4	0
15	A higher order and stable method for the numerical integration of Random Differential Equations. , 0, , .		0
16	A numerical method for the semilinear stochastic transport equation. , 0, , .		0
17	An explicit numerical method for random differential equations driven by diffusion-type noises. , 0, , .		0
18	Numerical and Computational Analysis of models for Stochastic activity of neurons. , 0, , .		0

#	ARTICLE	IF	CITATIONS
19	An explicit numerical scheme for the computer simulation of the stochastic transport equation. Communications in Nonlinear Science and Numerical Simulation, 2022, 110, 106378.	1.7	0