Timothy D Sauer

List of Publications by Year in descending order

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TIMOTHY D SALLED

#	Article	IF	CITATIONS
1	Adaptive ensemble Kalman filtering of non-linear systems. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 65, 20331.	0.8	53
2	Identifiability of Infection Model Parameters Early in an Epidemic. SIAM Journal on Control and Optimization, 2022, 60, S27-S48.	1.1	9
3	Global Assimilation of Remotely Sensed Leaf Area Index: The Impact of Updating More State Variables Within a Land Surface Model. Frontiers in Water, 2022, 3, .	1.0	5
4	The Joint Assimilation of Remotely Sensed Leaf Area Index and Surface Soil Moisture into a Land Surface Model. Remote Sensing, 2022, 14, 437.	1.8	12
5	A synthetic experiment to investigate the potential of assimilating LAI through direct insertion in a land surface model. Journal of Hydrology X, 2020, 9, 100063.	0.8	6
6	Poisson Kalman filter for disease surveillance. Physical Review Research, 2020, 2, .	1.3	6
7	The influence of assimilating leaf area index in a land surface model on global water fluxes and storages. Hydrology and Earth System Sciences, 2020, 24, 3775-3788.	1.9	6
8	Correcting observation model error in data assimilation. Chaos, 2019, 29, 053102.	1.0	10
9	Changes in Ugandan Climate Rainfall at the Village and Forest Level. Scientific Reports, 2018, 8, 3551.	1.6	27
10	Tracking intracellular dynamics through extracellular measurements. PLoS ONE, 2018, 13, e0205031.	1.1	8
11	Limits on reconstruction of dynamics in networks. Physical Review E, 2018, 98, 022318.	0.8	6
12	Correlation between System and Observation Errors in Data Assimilation. Monthly Weather Review, 2018, 146, 2913-2931.	0.5	6
13	Density estimation on manifolds with boundary. Computational Statistics and Data Analysis, 2017, 107, 1-17.	0.7	23
14	Kalman-Takens filtering in the presence of dynamical noise. European Physical Journal: Special Topics, 2017, 226, 3239-3250.	1.2	19
15	Effects of symmetry on the structural controllability of neural networks: A perspective. , 2016, 2016, 5785-5790.		2
16	Ensemble Kalman Filtering without a Model. Physical Review X, 2016, 6, .	2.8	40
17	Local kernels and the geometric structure of data. Applied and Computational Harmonic Analysis, 2016, 40, 439-469.	1.1	55
18	Predicting chaotic time series with a partial model. Physical Review E, 2015, 92, 010902.	0.8	26

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19	Observability and Controllability of Nonlinear Networks: The Role of Symmetry. Physical Review X, 2015, 5, .	2.8	100
20	Reconstructing neural dynamics using data assimilation with multiple models. Europhysics Letters, 2014, 107, 68005.	0.7	16
21	Computational solution of stochastic differential equations. Wiley Interdisciplinary Reviews: Computational Statistics, 2013, 5, 362-371.	2.1	25
22	Real-time tracking of neuronal network structure using data assimilation. Physical Review E, 2013, 88, 052715.	0.8	49
23	Time-Scale Separation from Diffusion-Mapped Delay Coordinates. SIAM Journal on Applied Dynamical Systems, 2013, 12, 618-649.	0.7	67
24	Convergence of periodically forced rank-type equations. Journal of Difference Equations and Applications, 2012, 18, 417-429.	0.7	2
25	Numerical Solution of Stochastic Differential Equations in Finance. , 2012, , 529-550.		36
26	Rainfall drives hydrocephalus in East Africa. Journal of Neurosurgery: Pediatrics, 2012, 10, 161-167.	0.8	27
27	Observability of neuronal network motifs. , 2012, 2012, .		4
28	Prediction of single neuron spiking activity using an optimized nonlinear dynamic model. , 2012, 2012, 2543-6.		0
29	Detecting connectivity changes in neuronal networks. Journal of Neuroscience Methods, 2012, 209, 388-397.	1.3	26
30	Convergence of rank-type equations. Applied Mathematics and Computation, 2011, 217, 4540-4547.	1.4	4
31	Homologous control of protein signaling networks. Journal of Theoretical Biology, 2011, 279, 29-43.	0.8	Ο
32	Global convergence of max-type equations. Journal of Difference Equations and Applications, 2011, 17, 1-8.	0.7	12
33	Observing periodically forced systems of difference equations. Journal of Difference Equations and Applications, 2010, 16, 269-273.	0.7	Ο
34	Data assimilation for heterogeneous networks: The consensus set. Physical Review E, 2009, 79, 051909.	0.8	21
35	Augmented sparse reconstruction of protein signaling networks. Journal of Theoretical Biology, 2008, 255, 40-52.	0.8	12
36	Kalman filter control of a model of spatiotemporal cortical dynamics. Journal of Neural Engineering, 2008, 5, 1-8.	1.8	97

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37	Reconstructing the topology of sparsely connected dynamical networks. Physical Review E, 2008, 77, 026103.	0.8	137
38	Functional dissipation microarrays for classification. Pattern Recognition, 2007, 40, 3393-3400.	5.1	0
39	Multivariate linear discrimination of seizures. Clinical Neurophysiology, 2005, 116, 545-551.	0.7	43
40	Neuronal spatiotemporal pattern discrimination: The dynamical evolution of seizures. NeuroImage, 2005, 28, 1043-1055.	2.1	106
41	Computer arithmetic and sensitivity of natural measure. Journal of Difference Equations and Applications, 2005, 11, 669-676.	0.7	3
42	Reconstruction of Shared Nonlinear Dynamics in a Network. Physical Review Letters, 2004, 93, 198701.	2.9	28
43	Four-dimensional ensemble Kalman filtering. Tellus, Series A: Dynamic Meteorology and Oceanography, 2004, 56, 273-277.	0.8	129
44	Chaotic itinerancy based on attractors of one-dimensional maps. Chaos, 2003, 13, 947-952.	1.0	16
45	Shadowing breakdown and large errors in dynamical simulations of physical systems. Physical Review E, 2002, 65, 036220.	0.8	53
46	Early Seizure Detection. Journal of Clinical Neurophysiology, 2001, 18, 259-268.	0.9	128
47	Formulas for the Eckmann-Ruelle Matrix. , 2001, , 323-336.		1
48	Reconstructing chaotic dynamics through spike filters. Physical Review E, 1999, 59, 2911-2917.	0.8	22
49	Reconstructing the Jacobian from Data with Observational Noise. Physical Review Letters, 1999, 83, 1331-1334.	2.9	22
50	Continued Fractions Hierarchy of Rotation Numbers in Planar Dynamics. Physical Review Letters, 1999, 83, 3629-3632.	2.9	3
51	Predicting Chaos Most of the Time from Embeddings with Self-Intersections. Physical Review Letters, 1998, 80, 1410-1413.	2.9	23
52	Spurious Lyapunov Exponents in Attractor Reconstruction. Physical Review Letters, 1998, 81, 4341-4344.	2.9	35
53	Chaotic Stochastic Resonance: Noise-Enhanced Reconstruction of Attractors. Physical Review Letters, 1997, 79, 1030-1033.	2.9	33
54	Correlation dimension of attractors through interspike intervals. Physical Review E, 1997, 55, 287-290.	0.8	52

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55	Extracting unstable periodic orbits from chaotic time series data. Physical Review E, 1997, 55, 5398-5417.	0.8	102
56	Are the dimensions of a set and its image equal under typical smooth functions?. Ergodic Theory and Dynamical Systems, 1997, 17, 941-956.	0.4	45
57	How Long Do Numerical Chaotic Solutions Remain Valid?. Physical Review Letters, 1997, 79, 59-62.	2.9	143
58	System identification for chaotic integrate-and-fire dynamics. International Journal of Intelligent Systems, 1997, 12, 255-265.	3.3	4
59	Detecting Unstable Periodic Orbits in Chaotic Experimental Data. Physical Review Letters, 1996, 76, 4705-4708.	2.9	140
60	Detecting dynamical interdependence and generalized synchrony through mutual prediction in a neural ensemble. Physical Review E, 1996, 54, 6708-6724.	0.8	344
61	Detecting nonlinear dynamics in spatio-temporal systems, examples from ecological models. Physica D: Nonlinear Phenomena, 1996, 96, 321-333.	1.3	21
62	Tests for nonlinearity in short stationary time series. Chaos, 1995, 5, 118-126.	1.0	27
63	Looking for chaos in brain slices. Journal of Neuroscience Methods, 1995, 59, 41-48.	1.3	18
64	Interspike interval embedding of chaotic signals. Chaos, 1995, 5, 127-132.	1.0	64
65	Obstructions to Shadowing When a Lyapunov Exponent Fluctuates about Zero. Physical Review Letters, 1994, 73, 1927-1930.	2.9	149
66	Stochastic versus deterministic variability in simple neuronal circuits: I. Monosynaptic spinal cord reflexes. Biophysical Journal, 1994, 67, 671-683.	0.2	64
67	Stochastic versus deterministic variability in simple neuronal circuits: II. Hippocampal slice. Biophysical Journal, 1994, 67, 684-691.	0.2	51
68	Reconstruction of dynamical systems from interspike intervals. Physical Review Letters, 1994, 72, 3811-3814.	2.9	232
69	Estimating correlation dimension from a chaotic time series: when does plateau onset occur?. Physica D: Nonlinear Phenomena, 1993, 69, 404-424.	1.3	170
70	Plateau onset for correlation dimension: When does it occur?. Physical Review Letters, 1993, 70, 3872-3875.	2.9	145
71	Prevalence. An addendum to: "Prevalence: a translation-invariant â€~almost every' on infinite-dimensional spaces―[Bull. Amer. Math. Soc. (N.S.) 27 (1992), no. 2, 217–238; MR1161274 (93k:28018)]. Bulletin of the American Mathematical Society, 1993, 28, 306-307.	0.8	41
72	Prevalence: a translation-invariant "almost every―on infinite-dimensional spaces. Bulletin of the American Mathematical Society, 1992, 27, 217-238.	0.8	285

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73	A noise reduction method for signals from nonlinear systems. Physica D: Nonlinear Phenomena, 1992, 58, 193-201.	1.3	132
74	Embedology. Journal of Statistical Physics, 1991, 65, 579-616.	0.5	1,895
75	Rigorous verification of trajectories for the computer simulation of dynamical systems. Nonlinearity, 1991, 4, 961-979.	0.6	91
76	Shadowing of physical trajectories in chaotic dynamics: Containment and refinement. Physical Review Letters, 1990, 65, 1527-1530.	2.9	210
77	Lyapunov partition functions for the dimensions of chaotic sets. Physical Review A, 1989, 39, 4212-4222.	1.0	25
78	The Cheater's Homotopy: An Efficient Procedure for Solving Systems of Polynomial Equations. SIAM Journal on Numerical Analysis, 1989, 26, 1241-1251.	1.1	81
79	Rotation numbers of periodic orbits in the H�non map. Communications in Mathematical Physics, 1988, 120, 105-119.	1.0	17
80	Numerically determining solutions of systems of polynomial equations. Bulletin of the American Mathematical Society, 1988, 18, 173-177.	0.8	20
81	Homotopy Method for General \$lambda \$-Matrix Problems. SIAM Journal on Matrix Analysis and Applications, 1988, 9, 528-536.	0.7	25
82	Numerical Solution of a Class of Deficient Polynomial Systems. SIAM Journal on Numerical Analysis, 1987, 24, 435-451.	1.1	57
83	The random product homotopy and deficient polynomial systems. Numerische Mathematik, 1987, 51, 481-500.	0.9	35
84	Homotopy method for generalized eigenvalue problems Ax= ĥBx. Linear Algebra and Its Applications, 1987, 91, 65-74.	0.4	30
85	Codimension-two subvarieties of ? n with the cohomology of a complete intersection. Mathematische Zeitschrift, 1985, 188, 143-147.	0.4	1
86	Smoothing projectively Cohen-Macaulay space curves. Mathematische Annalen, 1985, 272, 83-90.	0.7	25
87	A Note on the Cayley-Bacharach Property. Bulletin of the London Mathematical Society, 1985, 17, 239-242.	0.4	1
88	The number of equations defining points in general position. Pacific Journal of Mathematics, 1985, 120, 199-213.	0.2	4
89	Nonstable Reflexive Sheaves on P 3. Transactions of the American Mathematical Society, 1984, 281, 633.	0.5	13
90	Nonstable reflexive sheaves on ?³. Transactions of the American Mathematical Society, 1984, 281, 633-655.	0.5	10

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91	Attenuated Embedding Estimators for Speech Signals. , 0, , .		0