John Guckenheimer

List of Publications by Year in Descending Order

20 papers	1,323 citations	14 h-index	22 g-index
22 ext. papers	1,565 ext. citations	5.4 avg, IF	4.28 L-index

#	Paper	IF	Citations
20	Locomotion: exploiting noise for state estimation. *Biological Cybernetics*, **2019**, 113, 93-104	2.8	1
19	(Un)predictability of strong El Niño events. *Dynamics and Statistics of the Climate System*, **2017**, 2,		7
18	Mixed-Mode Oscillations of El Niño-Southern Oscillation. *Journals of the Atmospheric Sciences*, **2016**, 73, 1755-1766	2.1	14
17	Invariant manifolds and global bifurcations. *Chaos*, **2015**, 25, 097604	3.3	18
16	Constructing predictive models of human running. *Journal of the Royal Society Interface*, **2015**, 12,	4.1	25
15	From data to dynamical systems. *Nonlinearity*, **2014**, 27, R41-R50	1.7	2
14	Mixed-Mode Oscillations with Multiple Time Scales. *SIAM Review*, **2012**, 54, 211-288	7.4	336
13	Synaptic patterning of left-right alternation in a computational model of the rodent hindlimb central pattern generator. *Journal of Computational Neuroscience*, **2011**, 30, 323-60	1.4	28
12	Discovering the flight autostabilizer of fruit flies by inducing aerial stumbles. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4820-4	11.5	142
11	Dissecting the Phase Response of a Model Bursting Neuron. *SIAM Journal on Applied Dynamical Systems*, **2010**, 9, 659-703	2.8	35
10	Computing Slow Manifolds of Saddle Type. *SIAM Journal on Applied Dynamical Systems*, **2009**, 8, 854-879	2.8	45
9	The backward behavior of the Ricci and cross-curvature flows on $\mbox{SL}(2, \mathbb{R})$. *Communications in Analysis and Geometry*, **2009**, 17, 777-796	0.9	9
8	Return maps of folded nodes and folded saddle-nodes. *Chaos*, **2008**, 18, 015108	3.3	32
7	Parameter estimation for bursting neural models. *Journal of Computational Neuroscience*, **2008**, 24, 358-73	1.4	15
6	The Dynamics of Legged Locomotion: Models, Analyses, and Challenges. *SIAM Review*, **2006**, 48, 207-304	7.4	449
5	BIFURCATIONS OF RELAXATION OSCILLATIONS NEAR FOLDED SADDLES. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2005**, 15, 3411-3421	2	31
4	Computing Periodic Orbits and their Bifurcations with Automatic Differentiation. *SIAM Journal of Scientific Computing*, **2000**, 22, 951-985	2.6	62

3	NUMERICAL COMPUTATION OF CANARDS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2000**, 10, 2669-2687	2	65
2	DYNAMICAL SYSTEMS AND NUMERICAL ANALYSIS By A. M. STUART and A. R. HUMPHRIES Cambridge University Press, 1996, 709 pp. Price £40.00. ISBN 0 521 49672 1. *Ergodic Theory and Dynamical Systems*, **1998**, 18, 759-763	0.9	
1	COMPUTATIONAL ENVIRONMENTS FOR EXPLORING DYNAMICAL SYSTEMS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1991**, 01, 269-276	2	5