## Mike R Jeffrey

List of Publications by Year in descending order

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MIKE DIFFEDEN

#	Article	IF	CITATIONS
1	Homoclinic Boundary-Saddle Bifurcations in Planar Nonsmooth Vector Fields. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2022, 32, .	1.7	3
2	Into higher dimensions for nonsmooth dynamical systems. Physica D: Nonlinear Phenomena, 2022, 434, 133222.	2.8	5
3	Loss of Determinacy at Small Scales, with Application to Multiple Timescale and Nonsmooth Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150041.	1.7	Ο
4	Hidden dynamics for piecewise smooth maps. Nonlinearity, 2021, 34, 3184-3198.	1.4	1
5	Bifurcations of hidden orbits in discontinuous maps. Nonlinearity, 2021, 34, 6140-6172.	1.4	4
6	Ageing of an oscillator due to frequency switching. Communications in Nonlinear Science and Numerical Simulation, 2021, 102, 105950.	3.3	4
7	Two-fold singularities in nonsmooth dynamics—Higher dimensional analogs. Chaos, 2020, 30, 093142.	2.5	3
8	The hidden unstable orbits of maps with gaps. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190473.	2.1	5
9	Uncertainty in classical systems (with a local, non-stochastic, non-chaotic origin). Journal of Physics A: Mathematical and Theoretical, 2020, 53, 115701.	2.1	1
10	Modeling with Nonsmooth Dynamics. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2020, , .	0.5	13
11	The Three Experiments Revisited. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2020, , 59-73.	0.5	0
12	Ideal and Non-ideal Sliding. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2020, , 45-57.	0.5	0
13	Layers and Implementations. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2020, , 35-43.	0.5	0
14	Three Experiments. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2020, , 25-33.	0.5	0
15	Mathematics for a Nonsmooth World. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2020, , 1-14.	0.5	Ο
16	On the Dulac's problem for piecewise analytic vector fields. Journal of Differential Equations, 2019, 266, 2259-2273.	2.2	3
17	Pausing for arbitrarily long times in dynamical systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180574.	2.1	1
18	An Introduction to Piecewise Smooth Dynamics. Advanced Courses in Mathematics, CRM Barcelona, 2019, , .	0.3	12

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19	Micro-Slip as a Loss of Determinacy in Dry-Friction Oscillators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1930015.	1.7	2
20	The Ghosts of Departed Quantities in Switches and Transitions. SIAM Review, 2018, 60, 116-136.	9.5	21
21	Jitter in Piecewise-Smooth Dynamical Systems with Intersecting Discontinuity Surfaces. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830020.	1.7	10
22	One Switch in the Plane: A Primer. , 2018, , 31-60.		0
23	Asymptotics of Switching: Smoothing and Other Perturbations. , 2018, , 307-353.		0
24	Applications from Physics, Biology, and Climate. , 2018, , 407-473.		0
25	Layer Analysis. , 2018, , 125-169.		0
26	Global Bifurcations and Explosions. , 2018, , 273-306.		0
27	Nonlinear Switching (Local Theory): The Phenomena of Hidden Dynamics. , 2018, , 201-241.		0
28	Four Obsessions of the Two-Fold Singularity. , 2018, , 355-405.		0
29	Tangencies: The Shape of the Discontinuity Surface. , 2018, , 103-124.		0
30	The Vector Field Canopy. , 2018, , 91-101.		0
31	A unified approach to explain contrary effects of hysteresis and smoothing in nonsmooth systems. Communications in Nonlinear Science and Numerical Simulation, 2017, 50, 142-168.	3.3	10
32	An Update on that Singularity. Trends in Mathematics, 2017, , 107-112.	0.1	2
33	Hidden Bifurcations and Attractors in Nonsmooth Dynamical Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650068.	1.7	5
34	Piecewise Smooth Dynamical Systems Theory: The Case of the Missing Boundary Equilibrium Bifurcations. Journal of Nonlinear Science, 2016, 26, 1161-1173.	2.1	31
35	Exit from sliding in piecewise-smooth flows: Deterministic vs. determinacy-breaking. Chaos, 2016, 26, 033108.	2.5	8
36	Hidden Degeneracies in Piecewise Smooth Dynamical Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650087.	1.7	14

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37	Smoothing tautologies, hidden dynamics, and sigmoid asymptotics for piecewise smooth systems. Chaos, 2015, 25, 103125.	2.5	4
38	Regularization of hidden dynamics in piecewise smooth flows. Journal of Differential Equations, 2015, 259, 4615-4633.	2.2	32
39	On the mathematical basis of solid friction. Nonlinear Dynamics, 2015, 81, 1699-1716.	5.2	7
40	Grazing-sliding bifurcations, border collision maps and the curse of dimensionality for piecewise smooth bifurcation theory. Nonlinearity, 2015, 28, 263-283.	1.4	24
41	Nondeterministic dynamics of a mechanical system. Physical Review E, 2014, 90, 022914.	2.1	9
42	Dynamics at a Switching Intersection: Hierarchy, Isonomy, and Multiple Sliding. SIAM Journal on Applied Dynamical Systems, 2014, 13, 1082-1105.	1.6	58
43	Discontinuity-induced bifurcation cascades in flows and maps with application to models of the yeast cell cycle. Physica D: Nonlinear Phenomena, 2014, 271, 32-47.	2.8	7
44	Non-Filippov dynamics arising from the smoothing of nonsmooth systems, and its robustness to noise. Nonlinear Dynamics, 2014, 76, 1395-1410.	5.2	12
45	Mathematical analysis of a model for the growth of the bovine corpus luteum. Journal of Mathematical Biology, 2014, 69, 1515-1546.	1.9	5
46	Hidden dynamics in models of discontinuity and switching. Physica D: Nonlinear Phenomena, 2014, 273-274, 34-45.	2.8	45
47	The two-fold singularity of nonsmooth flows: Leading order dynamics in -dimensions. Physica D: Nonlinear Phenomena, 2013, 263, 1-10.	2.8	23
48	Three discontinuity-induced bifurcations to destroy self-sustained oscillations in a superconducting resonator. Physica D: Nonlinear Phenomena, 2012, 241, 2077-2082.	2.8	5
49	Nondeterministic Chaos, and the Two-fold Singularity in Piecewise Smooth Flows. SIAM Journal on Applied Dynamical Systems, 2011, 10, 423-451.	1.6	69
50	Nondeterminism in the Limit of Nonsmooth Dynamics. Physical Review Letters, 2011, 106, 254103.	7.8	32
51	Canards and curvature: the â€~smallness of <b> <i>ε</i> </b> ' in slow–fast dynamics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 2404-2421.	2.1	27
52	Teixeira singularities in 3D switched feedback control systems. Systems and Control Letters, 2010, 59, 615-622.	2.3	34
53	Peel or coat spheres by convolution, repeatedly. Journal of Mathematical Physics, 2007, 48, 123507.	1.1	5