Iryna Sushko

List of Publications by Year in descending order

74 papers	1,211 citations	331670 21 h-index	414414 32 g-index
76 all docs	76 docs citations	76 times ranked	282 citing authors

#	Article	IF	Citations
1	DEGENERATE BIFURCATIONS AND BORDER COLLISIONS IN PIECEWISE SMOOTH 1D AND 2D MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2045-2070.	1.7	103
2	CENTER BIFURCATION FOR TWO-DIMENSIONAL BORDER-COLLISION NORMAL FORM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1029-1050.	1.7	65
3	Growing through chaotic intervals. Journal of Economic Theory, 2008, 143, 541-557.	1.1	58
4	A Hicksian multiplier-accelerator model with floor determined by capital stock. Journal of Economic Behavior and Organization, 2005, 56, 331-348.	2.0	57
5	Bifurcation structure of parameter plane for a family of unimodal piecewise smooth maps: Border-collision bifurcation curves. Chaos, Solitons and Fractals, 2006, 29, 756-770.	5.1	53
6	A business cycle model with cubic nonlinearity. Chaos, Solitons and Fractals, 2004, 19, 597-612.	5.1	50
7	The Hicksian floor–roof model for two regions linked by interregional trade. Chaos, Solitons and Fractals, 2003, 18, 593-612.	5.1	44
8	Hicks' trade cycle revisited: cycles and bifurcations. Mathematics and Computers in Simulation, 2003, 63, 505-527.	4.4	42
9	Critical homoclinic orbits lead to snap-back repellers. Chaos, Solitons and Fractals, 2011, 44, 433-449.	5.1	39
10	Bistability and border-collision bifurcations for a family of unimodal piecewise smooth maps. Discrete and Continuous Dynamical Systems - Series B, 2005, 5, 881-897.	0.9	37
11	Codimension-2 Border Collision, Bifurcations in One-Dimensional, Discontinuous Piecewise Smooth Maps. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450024.	1.7	33
12	Tongues of periodicity in a family of two-dimensional discontinuous maps of real Möbius type. Chaos, Solitons and Fractals, 2004, 21, 403-412.	5.1	32
13	Regional integration, international liberalisation and the dynamics of industrial agglomeration. Journal of Economic Dynamics and Control, 2014, 48, 265-287.	1.6	29
14	Bifurcation structure in the skew tent map and its application as a border collision normal form. Journal of Difference Equations and Applications, 2016, 22, 1040-1087.	1.1	29
15	Regular and chaotic growth in a Hicksian floor/ceiling model. Journal of Economic Behavior and Organization, 2010, 75, 77-94.	2.0	28
16	Nonsmooth one-dimensional maps: some basic concepts and definitions. Journal of Difference Equations and Applications, 2016, 22, 1816-1870.	1.1	27
17	About Two Mechanisms of Reunion of Chaotic Attractors. Chaos, Solitons and Fractals, 1998, 9, 1373-1390.	5.1	26
18	BIFURCATION STRUCTURES IN A BIMODAL PIECEWISE LINEAR MAP: REGULAR DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330040.	1.7	26

#	ARTICLE	IF	CITATIONS
19	Bifurcations of Chaotic Attractors in One-Dimensional Piecewise Smooth Maps. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1440012.	1.7	25
20	Revisiting the model of credit cycles with Good and Bad projects. Journal of Economic Theory, 2016, 163, 525-556.	1.1	25
21	2D discontinuous piecewise linear map: Emergence of fashion cycles. Chaos, 2018, 28, 055917.	2.5	23
22	Superstable credit cycles and U-sequence. Chaos, Solitons and Fractals, 2014, 59, 13-27.	5.1	22
23	Typical bifurcation scenario in a three region identical New Economic Geography model. Mathematics and Computers in Simulation, 2015, 108, 63-80.	4.4	19
24	Bifurcation Structures in a Bimodal Piecewise Linear Map: Chaotic Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530006.	1.7	18
25	Border collision bifurcations of superstable cycles in a one-dimensional piecewise smooth map. Mathematics and Computers in Simulation, 2010, 81, 52-61.	4.4	16
26	Border collision bifurcations in one-dimensional linear-hyperbolic maps. Mathematics and Computers in Simulation, 2010, 81, 899-914.	4.4	14
27	Dynamic agglomeration patterns in a two-country new economic geography model with four regions. Chaos, Solitons and Fractals, 2015, 79, 2-17.	5.1	12
28	A financial market model with two discontinuities: Bifurcation structures in the chaotic domain. Chaos, 2018, 28, 055908.	2.5	12
29	Symmetry breaking in a bull and bear financial market model. Chaos, Solitons and Fractals, 2015, 79, 57-72.	5.1	11
30	The role of centrality and market size in a four-region asymmetric new economic geography model. Journal of Evolutionary Economics, 2017, 27, 1095-1131.	1.7	11
31	Cyclicity of chaotic attractors in one-dimensional discontinuous maps. Mathematics and Computers in Simulation, 2014, 95, 126-136.	4.4	10
32	Robust chaos in a credit cycle model defined by a one-dimensional piecewise smooth map. Chaos, Solitons and Fractals, 2016, 91, 299-309.	5.1	10
33	Necessary and sufficient conditions for the roots of a cubic polynomial and bifurcations of codimension-1, -2, -3 for 3D maps. Journal of Difference Equations and Applications, 2021, 27, 557-578.	1.1	10
34	Coupled chaotic fluctuations in a model of international trade and innovation: Some preliminary results. Communications in Nonlinear Science and Numerical Simulation, 2018, 58, 287-302.	3.3	9
35	A Gallery of Bifurcation Scenarios in Piecewise Smooth 1D Maps. , 2013, , 369-395.		8
36	Dangerous Bifurcations Revisited. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630040.	1.7	8

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37	Dynamics of a minimal consumer network with bi -directional influence. Communications in Nonlinear Science and Numerical Simulation, 2018, 58, 107-118.	3.3	8
38	Dynamics of a developing economy with a remote region: Agglomeration, trade integration and trade patterns. Communications in Nonlinear Science and Numerical Simulation, 2018, 58, 303-327.	3.3	7
39	Dynamics of a generalized fashion cycle model. Chaos, Solitons and Fractals, 2019, 126, 135-147.	5.1	7
40	Causes of fragile stock market stability. Journal of Economic Behavior and Organization, 2022, 200, 483-498.	2.0	7
41	Doubling bifurcation of a closed invariant curve in 3D maps. ESAIM: Proceedings and Surveys, 2012, 36, 180-188.	0.4	6
42	A piecewise linear model of credit traps and credit cycles: a complete characterization. Decisions in Economics and Finance, 2018, 41, 119-143.	1.8	6
43	Center Bifurcation for a Two-Dimensional Piecewise Linear Map. , 2006, , 49-78.		6
44	On the change of periodicities in the Hicksian multiplier-accelerator model with a consumption floor. Chaos, Solitons and Fractals, 2006, 29, 681-696.	5.1	5
45	Dynamics of a minimal consumer network with uni-directional influence. Journal of Evolutionary Economics, 2017, 27, 831-857.	1.7	5
46	A Goodwin-Type Model with a Piecewise Linear Investment Function. , 2006, , 317-333.		5
47	The Hicksian Model with Investment Floor and Income Ceiling. , 2006, , 179-191.		5
48	Center Bifurcation in the Lozi Map. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	5
49	Bifurcation Structures in a Family of 1D Discontinuous Linear-Hyperbolic Invertible Maps. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1530039.	1.7	4
50	A propos Brexit: on the breaking up of integration areas â€" an NEG analysis. Spatial Economic Analysis, 2021, 16, 97-120.	1.6	4
51	Bifurcation Structure in a Bimodal Piecewise Linear Business Cycle Model. Abstract and Applied Analysis, 2014, 2014, 1-12.	0.7	3
52	Period adding structure in a 2D discontinuous model of economic growth. Applied Mathematics and Computation, 2015, 253, 262-273.	2.2	3
53	Border collision bifurcations of chaotic attractors in one-dimensional maps with multiple discontinuities. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20210432.	2.1	3
54	Cascades of alternating smooth bifurcations and border collision bifurcations with singularity in a family of discontinuous linear-power maps. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 701-729.	0.9	3

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55	Emerging Trade Patterns in a 3-Region Linear NEG Model: Three Examples. Springer Proceedings in Complexity, 2018, , 38-80.	0.3	2
56	A Goodwin-Type Model with Cubic Investment Function. , 2006, , 299-316.		2
57	Dynamical approach to complex regional economic growth based on Keynesian model for China. Chaos, Solitons and Fractals, 2003, 18, 937-952.	5.1	1
58	Complex market dynamics under Box–Cox monopoly. Chaos, Solitons and Fractals, 2004, 21, 591-602.	5.1	1
59	A post-Keynesian model of growth and distribution with a constraint on investment. Structural Change and Economic Dynamics, 2014, 28, 12-24.	4.5	1
60	Growing through chaos in the Matsuyama map via subcritical flip bifurcation and bistability. Chaos, Solitons and Fractals, 2019, 124, 52-67.	5.1	1
61	A Route to Chaos in the Boros–Moll Map. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1930009.	1.7	1
62	Codimension-two border collision bifurcation in a two-class growth model with optimal saving and switch in behavior. Nonlinear Dynamics, 2020, 102, 1071-1095.	5.2	1
63	Obtaining a hub position: A New Economic Geography analysis of industry location and trade network structures. Metroeconomica, 2021, 72, 148-172.	1.0	1
64	Dynamics of a two-dimensional map on nested circles and rings. Chaos, Solitons and Fractals, 2021, 143, 110553.	5.1	1
65	Dynamics of a business cycle model with two types of governmental expenditures: the role of border collision bifurcations. Decisions in Economics and Finance, 2021, 44, 613-639.	1.8	1
66	Periodicity Induced by Production Constraints in Cournot Duopoly Models with Unimodal Reaction Curves. , 2017, , 73-93.		1
67	Bifurcation Structure in a Model of Monetary Dynamics with Two Kink Points. , 2014, , 65-81.		1
68	Border collision bifurcation of a resonant closed invariant curve. Chaos, 2022, 32, 043101.	2.5	1
69	Bifurcation Structures in a Bimodal Piecewise Linear Map. Frontiers in Applied Mathematics and Statistics, 2017, 3, .	1.3	0
70	Bifurcations in Smooth and Piecewise Smooth Noninvertible Maps. Springer Proceedings in Mathematics and Statistics, 2019, , 83-128.	0.2	0
71	Trade Agreements and Regional Disparities. , 2016, , 31-52.		0
72	Some Dynamical Models in Regional Economics: Economic Structure and Analytic Tools. Springer Proceedings in Complexity, 2016, , 213-256.	0.3	0

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73	Alternating Smooth and Nonsmooth Bifurcations in a Discontinuous Linear-Power Map. Trends in Mathematics, 2017, , 59-64.	0.1	0
74	Big or small? A new economic geography model with an endogenous switch in the market structure. Chaos, Solitons and Fractals, 2022, 161, 112257.	5.1	0