

Takuji Kousaka

List of Publications by Year in descending order

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papers

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933447

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docs citations

67
times ranked

171
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifurcation analysis of mixed-mode oscillations and Farey trees in an extended Bonhoeffer-van der Pol oscillator. <i>Physica D: Nonlinear Phenomena</i> , 2022, 433, 133178.	2.8	12
2	Bifurcation point detection with parallel nested layer particle swarm optimization. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022, 13, 312-317.	0.6	2
3	Improved nested-layer particle swarm optimization-based bifurcation point detection for the parameter space containing various bifurcation points. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022, 13, 493-510.	0.6	0
4	Bifurcation mechanism of doubly nested mixed-mode oscillations. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022, 13, 294-299.	0.6	1
5	Neimark-Sacker Bifurcation Points Derivation Method in Nonlinear Dynamical Systems using Nested-Layer Particle Swarm Optimizations. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2022, 142, 670-678.	0.2	3
6	Revealing the mechanism causing stepwise maximum bounce height changes in a bouncing ball system. <i>AIP Advances</i> , 2022, 12, 065022.	1.3	0
7	Stability analysis based on monodromy matrix for switched dynamical systems. <i>Nonlinear Theory and Its Applications IEICE</i> , 2021, 12, 237-256.	0.6	0
8	Mixed-mode oscillations from a constrained extended Bonhoeffer-van der Pol oscillator with a diode. <i>Chaos</i> , 2021, 31, 073133.	2.5	11
9	Relationship of Bifurcation and Power Conversion Efficiency in DC-DC Converter with TEM. , 2021, , .		1
10	Nested mixed-mode oscillations. <i>Physica D: Nonlinear Phenomena</i> , 2020, 401, 132152.	2.8	21
11	Experimental and numerical study of nonsmooth maximum bounce height changes in a bouncing ball system. <i>Chaos</i> , 2020, 30, 103111.	2.5	2
12	Bifurcation analysis by particle swarm optimization. <i>Nonlinear Theory and Its Applications IEICE</i> , 2020, 11, 391-408.	0.6	9
13	Bifurcation Analysis in an Interrupted Dynamical System with State Dependent Input. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2020, 33, 24-30.	0.1	0
14	Mathematical analysis for homoclinic bifurcation in a DC-DC converter with a photovoltaic module expressed by a piecewise-linear characteristic. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2019, 14, 1422-1423.	1.4	1
15	Stability analysis of state-time-dependent nonlinear hybrid dynamical systems. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2019, 14, 283-288.	1.4	1
16	Nested-layer particle swarm optimization method for bifurcation point detection in non-autonomous systems. <i>Nonlinear Theory and Its Applications IEICE</i> , 2019, 10, 289-302.	0.6	7
17	A Human Behavior Strategy Estimation Method Using Homology Search for Rock-Scissors-Paper Game. <i>Journal of Signal Processing</i> , 2019, 23, 177-180.	0.3	2
18	Clock pulse modulation for ripple reduction in buck-converter circuits. <i>Chaos, Solitons and Fractals</i> , 2018, 111, 138-145.	5.1	5

#	ARTICLE	IF	CITATIONS
19	Mixed-mode oscillation-incrementing bifurcations and a devil's staircase from a nonautonomous, constrained Bonhoeffer-van der Pol oscillator. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	10
20	A Simple Circuit Model for PWM-1-Controlled DC-DC Converter and Its Analysis. , 2018, , .		0
21	Stability Analysis Using Monodromy Matrix for Impacting Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 904-914.	0.3	3
22	A general method to stabilize unstable periodic orbits for switched dynamical systems with a periodically moving threshold. International Journal of Circuit Theory and Applications, 2018, 46, 2380-2393.	2.0	6
23	Stick-slip chaos in a mechanical oscillator with dry friction. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	9
24	Nested Layer Particle Swarm Optimization for Detection of Saddle-Node Bifurcation Point in One-Dimensional Discrete Time Dynamical Systems. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 1646-1647.	0.2	0
25	Analysis of mixed-mode oscillation-incrementing bifurcations generated in a nonautonomous constrained Bonhoeffer-van der Pol oscillator. Physica D: Nonlinear Phenomena, 2017, 353-354, 48-57.	2.8	24
26	Period Doubling Bifurcation Point Detection Strategy with Nested Layer Particle Swarm Optimization. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750101.	1.7	15
27	Maximum Power Point Search Strategy with Two Particle Swarm Optimizers for Photovoltaic Model. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1610-1611.	0.2	0
28	Basic Properties of Two-Dimensional Composite Dynamical System with Spike Noise. Electronics and Communications in Japan, 2015, 98, 26-35.	0.5	0
29	Computational Method of Border-collision Bifurcation Point for Piecewise Nonlinear Discrete-Time Dynamical Systems. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 468-469.	0.2	2
30	Fast- and Slow-Scale Bifurcations in an Interrupted Circuit with Multiple Inputs. Journal of Signal Processing, 2015, 19, 95-98.	0.3	1
31	Basic Study of Border-Collision Bifurcation in an Electric Circuit Including Fast-Scale and Slow-Scale Dynamics. Journal of Signal Processing, 2014, 18, 153-156.	0.3	2
32	Controlling Chaos of Hybrid Systems by Variable Threshold Values. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450125.	1.7	11
33	Complete bifurcation analysis of a chaotic attractor in an electric circuit with piecewise-smooth characteristics. IEEJ Transactions on Electrical and Electronic Engineering, 2014, 9, 656-663.	1.4	2
34	Effect of Time Lag in Response to Switching Signal in Interrupted Electric Circuit. Circuits, Systems, and Signal Processing, 2014, 33, 2695-2707.	2.0	4
35	A Simple Stability Analysis Method for a Period-1 Solution in a Forced Self-excited System with Stick-Slip Vibration. Journal of Signal Processing, 2014, 18, 157-160.	0.3	0
36	Calculation Method of Local Bifurcation Point in Piecewise Nonlinear Discrete-Time Dynamical Systems. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 729-736.	0.2	1

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37	Derivation Method of the Bifurcation Point for the Periodic Solution in an Impact Oscillator with Periodic Local Cross-Section. IEICE Proceeding Series, 2014, 1, 891-894.	0.0	1
38	Bifurcation in Injection-locked Class-EM Oscillator. IEICE Proceeding Series, 2014, 1, 691-694.	0.0	2
39	Almost Super Stable Periodic Orbit in an Electric Impact Oscillator. IEICE Proceeding Series, 2014, 1, 832-835.	0.0	0
40	Analysis of an Interrupted Electric Circuit with Non-Ideal Switching. IEICE Proceeding Series, 2014, 1, 836-839.	0.0	0
41	An Effective Stability Analysis Method for the Linear Impact Oscillators. IEICE Proceeding Series, 2014, 2, 110-113.	0.0	0
42	Analytical Derivation of Switching-pattern Distribution for Class-E Amplifier Using Bifurcation Theory. IEICE Proceeding Series, 2014, 1, 687-690.	0.0	0
43	A Method for the Computation of Border Collision Bifurcation Point in a Piecewise Linear System with Interrupted Characteristics. IEICE Proceeding Series, 2014, 1, 828-831.	0.0	0
44	Stability analysis of an interrupted circuit with fast-scale and slow-scale bifurcations. , 2013, , .		2
45	Basic Properties of Two-Dimensional Composite Dynamical System with Spike Noise. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 1402-1409.	0.2	1
46	A numerical approach to calculate grazing bifurcation points in an impact oscillator with periodic boundaries. , 2012, , .		1
47	Bifurcation analysis of the class-E inverter for switching-pattern derivations. IEICE Communications Express, 2012, 1, 33-39.	0.4	4
48	The Stabilizing mechanism for an interrupted dynamical system with periodic threshold. Nonlinear Theory and Its Applications IEICE, 2012, 3, 546-556.	0.6	4
49	A search algorithm of bifurcation point in an impact oscillator with periodic threshold. , 2012, , .		2
50	Design of Class-E _m Oscillator With Second Harmonic Injection. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2456-2467.	5.4	9
51	Chaotic Behavior in a Switching Delay Circuit. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1329-1336.	0.3	3
52	544 Nonlinear Dynamic Response in a Gear Pair Transmission System with Impacts. The Proceedings of the Dynamics & Design Conference, 2012, 2012, _544-1_-544-9_.	0.0	0
53	An experimental examination of a PWM-1 controlled interrupted electric circuit. IEICE Electronics Express, 2011, 8, 1210-1214.	0.8	1
54	Qualitative analysis of an interrupted electric circuit with spike noise. International Journal of Circuit Theory and Applications, 2011, 39, 1177-1187.	2.0	12

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55	BIFURCATION ANALYSIS IN A PWM CURRENT-CONTROLLED H-BRIDGE INVERTER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 985-996.	1.7	28
56	D14 On an Impact Oscillator with Periodic Boundary Condition : Calculation Method of Local Bifurcations for Period-1 Orbit. The Proceedings of Conference of Kyushu Branch, 2011, 2011, 103-104.	0.0	0
57	Experimental study of an interrupted electric circuit with spike noise. , 2009, , .		1
58	Dynamical mechanism for interrupted circuit with switching delay. IEICE Electronics Express, 2009, 6, 806-810.	0.8	4
59	Occasional Delayed Feedback Control for Switched Autonomous Systems. , 2007, , .		0
60	Control of chaos in a piecewise smooth nonlinear system. Chaos, Solitons and Fractals, 2006, 27, 1019-1025.	5.1	21
61	A method of systematic analysis of hybrid dynamical systems, and its application in power electronics. , 2006, , .		0
62	GENERAL CONSIDERATION FOR MODELING AND BIFURCATION ANALYSIS OF SWITCHED DYNAMICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 693-700.	1.7	8
63	Bifurcation analysis of a piecewise smooth system with non-linear characteristics. International Journal of Circuit Theory and Applications, 2005, 33, 263-279.	2.0	21
64	EXPERIMENTAL REALIZATION OF CONTROLLING CHAOS IN THE PERIODICALLY SWITCHED NONLINEAR CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3655-3660.	1.7	9
65	BIFURCATION AND CHAOS IN COUPLED BVP OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1305-1324.	1.7	28
66	Nonlinear Dynamical Systems with Interrupted Characteristics: Bifurcation and Control. World Scientific Series on Nonlinear Science, Series B, 2002, , 385-402.	0.2	1
67	CONTROLLING CHAOS IN A STATE-DEPENDENT NONLINEAR SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1111-1119.	1.7	9