

Takuji Kousaka

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

340
citations

933447

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940533

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67
all docs

67
docs citations

67
times ranked

171
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Control of chaos in a piecewise smooth nonlinear system. Chaos, Solitons and Fractals, 2006, 27, 1019-1025. | 5.1 | 21 |
| 6 | Nested mixed-mode oscillations. Physica D: Nonlinear Phenomena, 2020, 401, 132152. | 2.8 | 21 |
| 7 | 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 |
| 8 | Qualitative analysis of an interrupted electric circuit with spike noise. International Journal of Circuit Theory and Applications, 2011, 39, 1177-1187. | 2.0 | 12 |
| 9 | Bifurcation analysis of mixed-mode oscillations and Farey trees in an extended Bonhoeffer–van der Pol oscillator. Physica D: Nonlinear Phenomena, 2022, 433, 133178. | 2.8 | 12 |
| 10 | 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 |
| 11 | Mixed-mode oscillations from a constrained extended Bonhoeffer–van der Pol oscillator with a diode. Chaos, 2021, 31, 073133. | 2.5 | 11 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Stick-slip chaos in a mechanical oscillator with dry friction. Progress of Theoretical and Experimental Physics, 2018, 2018, . | 6.6 | 9 |
| 17 | Bifurcation analysis by particle swarm optimization. Nonlinear Theory and Its Applications IEICE, 2020, 11, 391-408. | 0.6 | 9 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | A general method to stabilize unstable periodic orbits for switched dynamical systems with a periodically moving threshold. <i>International Journal of Circuit Theory and Applications</i> , 2018, 46, 2380-2393. | 2.0 | 6 |
| 21 | Clock pulse modulation for ripple reduction in buck-converter circuits. <i>Chaos, Solitons and Fractals</i> , 2018, 111, 138-145. | 5.1 | 5 |
| 22 | Dynamical mechanism for interrupted circuit with switching delay. <i>IEICE Electronics Express</i> , 2009, 6, 806-810. | 0.8 | 4 |
| 23 | Bifurcation analysis of the class-E inverter for switching-pattern derivations. <i>IEICE Communications Express</i> , 2012, 1, 33-39. | 0.4 | 4 |
| 24 | The Stabilizing mechanism for an interrupted dynamical system with periodic threshold. <i>Nonlinear Theory and Its Applications IEICE</i> , 2012, 3, 546-556. | 0.6 | 4 |
| 25 | Effect of Time Lag in Response to Switching Signal in Interrupted Electric Circuit. <i>Circuits, Systems, and Signal Processing</i> , 2014, 33, 2695-2707. | 2.0 | 4 |
| 26 | Chaotic Behavior in a Switching Delay Circuit. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2012, E95.A, 1329-1336. | 0.3 | 3 |
| 27 | Stability Analysis Using Monodromy Matrix for Impacting Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2018, E101.A, 904-914. | 0.3 | 3 |
| 28 | 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 |
| 29 | A search algorithm of bifurcation point in an impact oscillator with periodic threshold. , 2012, , . | | 2 |
| 30 | Stability analysis of an interrupted circuit with fast-scale and slow-scale bifurcations. , 2013, , . | | 2 |
| 31 | Basic Study of Border-Collision Bifurcation in an Electric Circuit Including Fast-Scale and Slow-Scale Dynamics. <i>Journal of Signal Processing</i> , 2014, 18, 153-156. | 0.3 | 2 |
| 32 | Complete bifurcation analysis of a chaotic attractor in an electric circuit with piecewise-smooth characteristics. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2014, 9, 656-663. | 1.4 | 2 |
| 33 | Experimental and numerical study of nonsmooth maximum bounce height changes in a bouncing ball system. <i>Chaos</i> , 2020, 30, 103111. | 2.5 | 2 |
| 34 | Computational Method of Border-collision Bifurcation Point for Piecewise Nonlinear Discrete-Time Dynamical Systems. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2015, 135, 468-469. | 0.2 | 2 |
| 35 | Bifurcation in Injection-locked Class-EM Oscillator. <i>IEICE Proceeding Series</i> , 2014, 1, 691-694. | 0.0 | 2 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | <i>Nonlinear Dynamical Systems with Interrupted Characteristics: Bifurcation and Control. World Scientific Series on Nonlinear Science, Series B</i> , 2002, , 385-402. | 0.2 | 1 |
| 39 | Experimental study of an interrupted electric circuit with spike noise. , 2009, , . | | 1 |
| 40 | An experimental examination of a PWM-1 controlled interrupted electric circuit. <i>IEICE Electronics Express</i> , 2011, 8, 1210-1214. | 0.8 | 1 |
| 41 | A numerical approach to calculate grazing bifurcation points in an impact oscillator with periodic boundaries. , 2012, , . | | 1 |
| 42 | 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 |
| 43 | 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 |
| 44 | Fast- and Slow-Scale Bifurcations in an Interrupted Circuit with Multiple Inputs. <i>Journal of Signal Processing</i> , 2015, 19, 95-98. | 0.3 | 1 |
| 45 | Basic Properties of Two-Dimensional Composite Dynamical System with Spike Noise. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2013, 133, 1402-1409. | 0.2 | 1 |
| 46 | Calculation Method of Local Bifurcation Point in Piecewise Nonlinear Discrete-Time Dynamical Systems. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2014, 134, 729-736. | 0.2 | 1 |
| 47 | Derivation Method of the Bifurcation Point for the Periodic Solution in an Impact Oscillator with Periodic Local Cross-Section. <i>IEICE Proceeding Series</i> , 2014, 1, 891-894. | 0.0 | 1 |
| 48 | Bifurcation mechanism of doubly nested mixed-mode oscillations. <i>Nonlinear Theory and Its Applications IEICE</i> , 2022, 13, 294-299. | 0.6 | 1 |
| 49 | Relationship of Bifurcation and Power Conversion Efficiency in DC-DC Converter with TEM. , 2021, , . | | 1 |
| 50 | A method of systematic analysis of hybrid dynamical systems, and its application in power electronics. , 2006, , . | | 0 |
| 51 | Occasional Delayed Feedback Control for Switched Autonomous Systems. , 2007, , . | | 0 |
| 52 | Basic Properties of Two-Dimensional Composite Dynamical System with Spike Noise. <i>Electronics and Communications in Japan</i> , 2015, 98, 26-35. | 0.5 | 0 |
| 53 | A Simple Circuit Model for PWM-1-Controlled DC-DC Converter and Its Analysis. , 2018, , . | | 0 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | Almost Super Stable Periodic Orbit in an Electric Impact Oscillator. IEICE Proceeding Series, 2014, 1, 832-835. | 0.0 | 0 |
| 59 | Analysis of an Interrupted Electric Circuit with Non-Ideal Switching. IEICE Proceeding Series, 2014, 1, 836-839. | 0.0 | 0 |
| 60 | An Effective Stability Analysis Method for the Linear Impact Oscillators. IEICE Proceeding Series, 2014, 2, 110-113. | 0.0 | 0 |
| 61 | Analytical Derivation of Switching-pattern Distribution for Class-E Amplifier Using Bifurcation Theory. IEICE Proceeding Series, 2014, 1, 687-690. | 0.0 | 0 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | Bifurcation Analysis in an Interrupted Dynamical System with State Dependent Input. Transactions of the Institute of Systems Control and Information Engineers, 2020, 33, 24-30. | 0.1 | 0 |
| 66 | Improved nested-layer particle swarm optimization-based bifurcation point detection for the parameter space containing various bifurcation points. Nonlinear Theory and Its Applications IEICE, 2022, 13, 493-510. | 0.6 | 0 |
| 67 | Revealing the mechanism causing stepwise maximum bounce height changes in a bouncing ball system. AIP Advances, 2022, 12, 065022. | 1.3 | 0 |