Kazuyuki Aihara

List of Publications by Year
in descending order

357	13,839	29994	30010
papers	citations	54 h-index	103 g-index

366	366	366	7740
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Supervised Learning Algorithm for Multilayer Spiking Neural Networks Based on Temporal Coding Toward Energy-Efficient VLSI Processor Design. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 394-408.	7.2	16
2	Dynamical network biomarkers: Theory and applications. Gene, 2022, 808, 145997.	1.0	29
3	Criticality in the Healthy Brain. Frontiers in Network Physiology, 2022, 1, .	0.8	6
4	Embedding entropy: a nonlinear measure of dynamical causality. Journal of the Royal Society Interface, 2022, 19, 20210766.	1.5	6
5	A 18.7 TOPS/W Mixed-Signal Spiking Neural Network Processor With 8-bit Synaptic Weight On-Chip Learning That Operates in the Continuous-Time Domain. IEEE Access, 2022, 10, 48338-48348.	2.6	5
6	Mean-field analysis of Stuartâ€“Landau oscillator networks with symmetric coupling and dynamical noise. Chaos, 2022, 32, 063114.	1.0	0
7	Time-Domain Digital-to-Analog Converter for Spiking Neural Network Hardware. Circuits, Systems, and Signal Processing, 2021, 40, 2763-2781.	1.2	5
8	Dynamics-based data science in biology. National Science Review, 2021, 8, nwab029.	4.6	16
9	Practical Dataâ€Driven Flood Forecasting Based on Dynamical Systems Theory. Water Resources Research, 2021, 57, e2020WR028427.	1.7	3
10	A quantitative model used to compare within-host SARS-CoV-2, MERS-CoV, and SARS-CoV dynamics provides insights into the pathogenesis and treatment of SARS-CoV-2. PLoS Biology, 2021, 19, e3001128.	2.6	99
11	Potential anti-COVID-19 agents, cepharanthine and nelfinavir, and their usage for combination treatment. IScience, 2021, 24, 102367.	1.9	126
12	Detection of significant antiviral drug effects on COVID-19 with reasonable sample sizes in randomized controlled trials: A modeling study. PLoS Medicine, 2021, 18, e1003660.	3.9	32
13	Collective fluctuation implies imminent state transition. Physics of Life Reviews, 2021, 37, 103-107.	1.5	9
14	A High-Speed Channel Assignment Algorithm for Dense IEEE 802.11 Systems via Coherent Ising Machine. IEEE Wireless Communications Letters, 2021, 10, 1682-1686.	3.2	7
15	Accelerating numerical simulation of continuous-time Boolean satisfiability solver using discrete gradient. Communications in Nonlinear Science and Numerical Simulation, 2021, 102, 105908.	1.7	5
16	Predicting local COVID-19 outbreaks and infectious disease epidemics based on landscape network entropy. Science Bulletin, 2021, 66, 2265-2270.	4.3	24
17	Forecasting wind power ramps with prediction coordinates. Chaos, 2021, 31, 103105.	1.0	1
18	Early Detection of a Traffic Flow Breakdown in the Freeway Based on Dynamical Network Markers. International Journal of Intelligent Transportation Systems Research, 2020, 18, 422-435.	0.6	2

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19	Suppression of Dynamical Network Biomarker Signals at the Predisease State (Mibyou) before Metabolic Syndrome in Mice by a Traditional Japanese Medicine (Kampo Formula) Bofutsushosan. Evidence-based Complementary and Alternative Medicine, 2020, 2020, 1-9.	0.5	12
20	Electrical coupling controls dimensionality and chaotic firing of inferior olive neurons. PLoS Computational Biology, 2020, 16, e1008075.	1.5	15
21	Comparing catch-up vaccination programs based on analysis of 2012â€“13 rubella outbreak in Kawasaki City, Japan. PLoS ONE, 2020, 15, e0237312.	1.1	3
22	Autoreservoir computing for multistep ahead prediction based on the spatiotemporal information transformation. Nature Communications, 2020, 11, 4568.	5.8	49
23	Partial cross mapping eliminates indirect causal influences. Nature Communications, 2020, 11, 2632.	5.8	47
24	Predicting future dynamics from short-term time series using an Anticipated Learning Machine. National Science Review, 2020, 7, 1079-1091.	4.6	21
25	Common stochastic inputs induce neuronal transient synchronization with partial reset. Neural Networks, 2020, 128, 13-21.	3.3	9
26	Timescales of Boolean satisfiability solver using continuous-time dynamical system. Communications in Nonlinear Science and Numerical Simulation, 2020, 84, 105183.	1.7	6
27	Reliable target ligand detection by noise-induced receptor cluster formation. Chaos, 2020, 30, 011104.	1.0	0
28	Quantum expectation-maximization algorithm. Physical Review A, 2020, 101, .	1.0	6
29	Reconstructing bifurcation diagrams only from time-series data generated by electronic circuits in discrete-time dynamical systems. Chaos, 2020, 30, 013128.	1.0	15
30	Forecasting high-dimensional dynamics exploiting suboptimal embeddings. Scientific Reports, 2020, 10, 664.	1.6	2
31	Deep Learning for Nonlinear Time Series: Examples for Inferring Slow Driving Forces. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050226.	0.7	3
32	Electrical coupling controls dimensionality and chaotic firing of inferior olive neurons. , 2020, 16, e1008075.		0
33	Electrical coupling controls dimensionality and chaotic firing of inferior olive neurons. , 2020, 16, e1008075.		0
34	Electrical coupling controls dimensionality and chaotic firing of inferior olive neurons. , 2020, 16, e1008075.		0
35	Electrical coupling controls dimensionality and chaotic firing of inferior olive neurons. , 2020, 16, e1008075.		0
36	Electrical coupling controls dimensionality and chaotic firing of inferior olive neurons. , 2020, 16, e1008075.		0

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37	Electrical coupling controls dimensionality and chaotic firing of inferior olive neurons. , 2020, 16, e1008075.		0
38	Identifying pre-disease signals before metabolic syndrome in mice by dynamical network biomarkers. Scientific Reports, 2019, 9, 8767.	1.6	43
39	Acetylcholine-mediated top-down attention improves the response to bottom-up inputs by deformation of the attractor landscape. PLoS ONE, 2019, 14, e0223592.	1.1	5
40	Quantifying pluripotency landscape of cell differentiation from scRNA-seq data by continuous birth-death process. PLoS Computational Biology, 2019, 15, e1007488.	1.5	11
41	Destabilization of Local Minima in Analog Spin Systems by Correction of Amplitude Heterogeneity. Physical Review Letters, 2019, 122, 040607.	2.9	57
42	Human photoplethysmogram through the Morse graph: Searching for the saddle point in experimental data. Chaos, 2019, 29, 043121.	1.0	2
43	Combining multiple forecasts for multivariate time series via state-dependent weighting. Chaos, 2019, 29, 033128.	1.0	12
44	Chaotic dynamics as a mechanism of rapid transition of hippocampal local field activity between theta and non-theta states. Chaos, 2019, 29, 113115.	1.0	5
45	Explicit transversality conditions and local bifurcation diagrams for Bogdanovâ€“Takens bifurcation on center manifolds. Physica D: Nonlinear Phenomena, 2019, 391, 52-65.	1.3	2
46	Detection for disease tipping points by landscape dynamic network biomarkers. National Science Review, 2019, 6, 775-785.	4.6	94
47	Hunt for the tipping point during endocrine resistance process in breast cancer by dynamic network biomarkers. Journal of Molecular Cell Biology, 2019, 11, 649-664.	1.5	57
48	Bifurcation analysis of a mathematical model of atopic dermatitis to determine patient-specific effects of treatments on dynamic phenotypes. Journal of Theoretical Biology, 2018, 448, 66-79.	0.8	13
49	Development and Applications of Biomimetic Neuronal Networks Toward BrainMorphic Artificial Intelligence. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 577-581.	2.2	22
50	Personalizing Androgen Suppression for Prostate Cancer Using Mathematical Modeling. Scientific Reports, 2018, 8, 2673.	1.6	21
51	Bifurcation analysis of eight coupled degenerate optical parametric oscillators. Physica D: Nonlinear Phenomena, 2018, 372, 22-30.	1.3	1
52	Non-Gaussian power grid frequency fluctuations characterized by LÃ©vy-stable laws and superstatistics. Nature Energy, 2018, 3, 119-126.	19.8	158
53	A pulse-width-modulation mode CMOS integrated circuit implementation of threshold-coupled map. Nonlinear Theory and Its Applications IEICE, 2018, 9, 268-280.	0.4	3
54	Recent progress in mathematical modelling of complex systems. Nonlinear Theory and Its Applications IEICE, 2018, 9, 149-154.	0.4	0

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55	Bifurcation mechanism for emergence of spontaneous oscillations in coupled heterogeneous excitable units. Physical Review E, 2018, 98, .	0.8	3
56	Photoplethysmogram at green light: Where does chaos arise from?. Chaos, Solitons and Fractals, 2018, 116, 157-165.	2.5	38
57	Randomly distributed embedding making short-term high-dimensional data predictable. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9994-E10002.	3.3	51
58	On the covariance matrix of the stationary distribution of a noisy dynamical system. Nonlinear Theory and Its Applications IEICE, 2018, 9, 166-184.	0.4	18
59	Elimination of spiral waves in a locally connected chaotic neural network by a dynamic phase space constraint. Neural Networks, 2017, 88, 9-21.	3.3	7
60	Robustness and fragility in coupled oscillator networks under targeted attacks. Physical Review E, 2017, 95, 012315.	0.8	18
61	Combinatorial optimization using dynamical phase transitions in driven-dissipative systems. Physical Review E, 2017, 95, 022118.	0.8	40
62	Improving time series prediction of solar irradiance after sunrise: Comparison among three methods for time series prediction. Solar Energy, 2017, 149, 294-301.	2.9	29
63	Smoothing effect for spatially distributed renewable resources and its impact on power grid robustness. Chaos, 2017, 27, 033104.	1.0	3
64	Dimensionless embedding for nonlinear time series analysis. Physical Review E, 2017, 96, 032219.	0.8	15
65	On the limits of probabilistic forecasting in nonlinear time series analysis II: Differential entropy. Chaos, 2017, 27, 083125.	1.0	6
66	Balancing specificity, sensitivity, and speed of ligand discrimination by zero-order ultraspecificity. Physical Review E, 2017, 96, 012405.	0.8	6
67	Quantum model for coherent Ising machines: Stochastic differential equations with replicator dynamics. Physical Review A, 2017, 96, .	1.0	22
68	Quantum model for coherent Ising machines: Discrete-time measurement feedback formulation. Physical Review A, 2017, 96, .	1.0	33
69	Coherent Ising machinesâ€”optical neural networks operating at the quantum limit. Npj Quantum Information, 2017, 3, .	2.8	120
70	Task-dependent recurrent dynamics in visual cortex. ELife, 2017, 6, .	2.8	17
71	Quantifying critical states of complex diseases using single-sample dynamic network biomarkers. PLoS Computational Biology, 2017, 13, e1005633.	1.5	90
72	Performance evaluation of coherent Ising machines against classical neural networks. Quantum Science and Technology, 2017, 2, 044002.	2.6	34

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73	Qualitative-Modeling-Based Silicon Neurons and Their Networks. Frontiers in Neuroscience, 2016, 10, 273.	1.4	23
74	Parameter Scaling for Epidemic Size in a Spatial Epidemic Model with Mobile Individuals. PLoS ONE, 2016, 11, e0168127.	1.1	11
75	Boltzmann Sampling by Degenerate Optical Parametric Oscillator Network for Structure-Based Virtual Screening. Entropy, 2016, 18, 365.	1.1	31
76	On the limits of probabilistic forecasting in nonlinear times series analysis. Chaos, 2016, 26, 123114.	1.0	5
77	Population Code Dynamics in Categorical Perception. Scientific Reports, 2016, 6, 22536.	1.6	19
78	Personalized characterization of diseases using sample-specific networks. Nucleic Acids Research, 2016, 44, e164-e164.	6.5	226
79	A coherent Ising machine for 2000-node optimization problems. Science, 2016, 354, 603-606.	6.0	469
80	A fully programmable 100-spin coherent Ising machine with all-to-all connections. Science, 2016, 354, 614-617.	6.0	427
81	System identification and parameter estimation in mathematical medicine: examples demonstrated for prostate cancer. Quantitative Biology, 2016, 4, 13-19.	0.3	3
82	Quantifying the effect of Vpu on the promotion of HIV-1 replication in the humanized mouse model. Retrovirology, 2016, 13, 23.	0.9	20
83	Predicting ramps by integrating different sorts of information. European Physical Journal: Special Topics, 2016, 225, 513-525.	1.2	15
84	New variable depth local search for multiple depot vehicle scheduling problems. Journal of Heuristics, 2016, 22, 567-585.	1.1	11
85	Detecting Causality by Combined Use of Multiple Methods: Climate and Brain Examples. PLoS ONE, 2016, 11, e0158572.	1.1	26
86	Towards the Future of Nonlinear Theory. Ieice Ess Fundamentals Review, 2015, 9, 82-83.	0.1	4
87	Mathematical Theory for Modelling Complex Systems and Its Transdisciplinary Applications in Science and Technology. Ieice Ess Fundamentals Review, 2015, 8, 218-228.	0.1	2
88	A CMOS circuit for PWM-mode nonlinear transformation robust to device mismatches to implement coupled map lattice models. Nonlinear Theory and Its Applications IEICE, 2015, 6, 570-581.	0.4	3
89	Random and Targeted Interventions for Epidemic Control in Metapopulation Models. Scientific Reports, 2015, 4, 5522.	1.6	39
90	Pandemic HIV-1 Vpu overcomes intrinsic herd immunity mediated by tetherin. Scientific Reports, 2015, 5, 12256.	1.6	14

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91	Identifying early-warning signals of critical transitions with strong noise by dynamical network markers. Scientific Reports, 2015, 5, 17501.	1.6	80
92	Predicting disease progression from short biomarker series using expert advice algorithm. Scientific Reports, 2015, 5, 8953.	1.6	15
93	Approximating high-dimensional dynamics by barycentric coordinates with linear programming. Chaos, 2015, 25, 013114.	1.0	6
94	A method to determine the duration of the eclipse phase for in vitro infection with a highly pathogenic SHIV strain. Scientific Reports, 2015, 5, 10371.	1.6	51
95	Quantifying the Antiviral Effect of IFN on HIV-1 Replication in Cell Culture. Scientific Reports, 2015, 5, 11761.	1.6	10
96	Parsimonious description for predicting high-dimensional dynamics. Scientific Reports, 2015, 5, 15736.	1.6	12
97	Experimental and theoretical bases for mechanisms of antigen discrimination by T cells. Biophysics (Nagoya-shi, Japan), 2015, 11, 85-92.	0.4	6
98	Identifying critical differentiation state of MCF-7 cells for breast cancer by dynamical network biomarkers. Frontiers in Genetics, 2015, 6, 252.	1.1	33
99	Intermittent Androgen Suppression: Estimating Parameters for Individual Patients Based on Initial PSA Data in Response to Androgen Deprivation Therapy. PLoS ONE, 2015, 10, e0130372.	1.1	14
100	Faithfulness of Recurrence Plots: A Mathematical Proof. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550168.	0.7	20
101	Understanding migraine using dynamic network biomarkers. Cephalalgia, 2015, 35, 627-630.	1.8	27
102	Clustered model reduction of positive directed networks. Automatica, 2015, 59, 238-247.	3.0	42
103	Dynamics of an HBV Model with Drug Resistance Under Intermittent Antiviral Therapy. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1540011.	0.7	3
104	Ability of intermittent androgen suppression to selectively create a non-trivial periodic orbit for a type of prostate cancer patients. Journal of Theoretical Biology, 2015, 384, 147-152.	0.8	7
105	Comparison between mathematical models of intermittent androgen suppression for prostate cancer. Journal of Theoretical Biology, 2015, 366, 33-45.	0.8	19
106	Robustness of Oscillatory Behavior in Correlated Networks. PLoS ONE, 2015, 10, e0123722.	1.1	25
107	Controlling Chaos of Hybrid Systems by Variable Threshold Values. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450125.	0.7	11
108	Node-wise robustness against fluctuations of power consumption in power grids. European Physical Journal: Special Topics, 2014, 223, 2549-2559.	1.2	7

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109	Interdisciplinary challenges in the study of power grid resilience and stability and their relation to extreme weather events. European Physical Journal: Special Topics, 2014, 223, 2383-2386.	1.2	8
110	Predicting multivariate time series in real time with confidence intervals: Applications to renewable energy. European Physical Journal: Special Topics, 2014, 223, 2451-2460.	1.2	10
111	A Linear programming formulation for routing asynchronous power systems of the Digital Grid. European Physical Journal: Special Topics, 2014, 223, 2611-2620.	1.2	8
112	Predicting Time Series from Short-Term High-Dimensional Data. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1430033.	0.7	18
113	APOBEC3D and APOBEC3F Potently Promote HIV-1 Diversification and Evolution in Humanized Mouse Model. PLoS Pathogens, 2014, 10, e1004453.	2.1	79
114	Dynamical robustness of coupled heterogeneous oscillators. Physical Review E, 2014, 89, 052906.	0.8	51
115	Reinitiation enhances reliable transcriptional responses in eukaryotes. Journal of the Royal Society Interface, 2014, 11, 20140326.	1.5	4
116	A new protocol for intermittent androgen suppression therapy of prostate cancer with unstable saddle-point dynamics. Journal of Theoretical Biology, 2014, 350, 1-16.	0.8	8
117	Dynamics between order and chaos in conceptual models of glacial cycles. Climate Dynamics, 2014, 42, 3087-3099.	1.7	31
118	Model Reduction and Clusterization of Large-Scale Bidirectional Networks. IEEE Transactions on Automatic Control, 2014, 59, 48-63.	3.6	76
119	Probabilistic evaluation of interconnectable capacity for wind power generation. European Physical Journal: Special Topics, 2014, 223, 2493-2501.	1.2	9
120	Early Diagnosis of Complex Diseases by Molecular Biomarkers, Network Biomarkers, and Dynamical Network Biomarkers. Medicinal Research Reviews, 2014, 34, 455-478.	5.0	252
121	A partial differential equation model and its reduction to an ordinary differential equation model for prostate tumor growth under intermittent hormone therapy. Journal of Mathematical Biology, 2014, 69, 817-838.	0.8	24
122	Probabilistic differential diagnosis of Middle East respiratory syndrome (MERS) using the time from immigration to illness onset among imported cases. Journal of Theoretical Biology, 2014, 346, 47-53.	0.8	17
123	Model predictive control for optimally scheduling intermittent androgen suppression of prostate cancer. Methods, 2014, 67, 278-281.	1.9	27
124	Relationship between brain network pattern and cognitive performance of children revealed by MEG signals during free viewing of video. Brain and Cognition, 2014, 86, 10-16.	0.8	11
125	Identifying critical transitions of complex diseases based on a single sample. Bioinformatics, 2014, 30, 1579-1586.	1.8	82
126	Online multi-step prediction for wind speeds and solar irradiation: Evaluation of prediction errors. Renewable Energy, 2014, 67, 35-39.	4.3	15

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127	Controlled synchronization: a Huygens' inspired approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3098-3103.	0.4	2
128	Spatio-Temporal Dynamics in Collective Frog Choruses Examined by Mathematical Modeling and Field Observations. Scientific Reports, 2014, 4, 3891.	1.6	55
129	Detecting Causality from Nonlinear Dynamics with Short-term Time Series. Scientific Reports, 2014, 4, 7464.	1.6	73
130	Phase-Model Analysis of Supply Stability in Power Grid of Eastern Japan. IEICE Proceeding Series, 2014, 2, 69-72.	0.0	1
131	On the use of chance-adjusted agreement statistic to measure the assortative transmission of infectious diseases. Computational and Applied Mathematics, 2013, 32, 303-313.	1.3	3
132	Dynamical network biomarkers for identifying critical transitions and their driving networks of biologic processes. Quantitative Biology, 2013, 1, 105-114.	0.3	62
133	Application of joint permutations for predicting coupled time series. Chaos, 2013, 23, 043104.	1.0	3
134	Analysis and stabilization for networked linear hyperbolic systems of rationally dependent conservation laws. Automatica, 2013, 49, 3210-3221.	3.0	6
135	Towards dynamical network biomarkers in neuromodulation of episodic migraine. Translational Neuroscience, 2013, 4, .	0.7	19
136	Parameter estimation and optimal scheduling algorithm for a mathematical model of intermittent androgen suppression therapy for prostate cancer. Chaos, 2013, 23, 043125.	1.0	8
137	Chaotic Ising-like dynamics in traffic signals. Scientific Reports, 2013, 3, 1127.	1.6	16
138	Controlling a chaotic neural network for information processing. Neurocomputing, 2013, 110, 111-120.	3.5	51
139	Solution to the inverse problem of estimating gap-junctional and inhibitory conductance in inferior olive neurons from spike trains by network model simulation. Neural Networks, 2013, 47, 51-63.	3.3	13
140	Optimal control laws for traffic flow. Applied Mathematics Letters, 2013, 26, 617-623.	1.5	3
141	Nonlinear system identification for prostate cancer and optimality of intermittent androgen suppression therapy. Mathematical Biosciences, 2013, 245, 40-48.	0.9	6
142	Chaotic Boltzmann machines. Scientific Reports, 2013, 3, 1610.	1.6	30
143	Deformation of Attractor Landscape via Cholinergic Presynaptic Modulations: A Computational Study Using a Phase Neuron Model. PLoS ONE, 2013, 8, e53854.	1.1	22
144	Identifying critical transitions and their leading biomolecular networks in complex diseases. Scientific Reports, 2012, 2, 813.	1.6	155

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145	NUMERICAL ANALYSIS OF TRANSIENT AND PERIODIC DYNAMICS IN SINGLE AND COUPLED NAGUMOâ€“SATO MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1230021.	0.7	4
146	Quantitative mathematical modeling of PSA dynamics of prostate cancer patients treated with intermittent androgen suppression. Journal of Molecular Cell Biology, 2012, 4, 127-132.	1.5	32
147	Model-free Unscented Kalman Filter with the Modified Method of Analogues. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 40-44.	0.4	2
148	Mathematically modelling and controlling prostate cancer under intermittent hormone therapy. Asian Journal of Andrology, 2012, 14, 270-277.	0.8	19
149	Rewiring-Induced Chaos in Pulse-Coupled Neural Networks. Neural Computation, 2012, 24, 1020-1046.	1.3	4
150	Equivalence of convex minimization problems over base polytopes. Japan Journal of Industrial and Applied Mathematics, 2012, 29, 519-534.	0.5	12
151	Dynamical robustness in complex networks: the crucial role of low-degree nodes. Scientific Reports, 2012, 2, 232.	1.6	101
152	Performance improvement of heuristic algorithms for large scale combinatorial optimization problems using Lebesgue Spectrum Filter. , 2012, , .		0
153	Chaos and Its Applications. Procedia IUTAM, 2012, 5, 199-203.	1.2	38
154	Detecting early-warning signals for sudden deterioration of complex diseases by dynamical network biomarkers. Scientific Reports, 2012, 2, 342.	1.6	494
155	IWCFTA2012 Keynote Speech II - Mathematical Theory for Complex Systems Modelling and its Applications in Science and Technology. , 2012, , .		1
156	Timing matters in foreign exchange markets. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 760-766.	1.2	23
157	Learning-induced pattern classification in a chaotic neural network. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 412-417.	0.9	11
158	Analysis of an Agent-based Electricity Market Model with Renewable Energy Power Plants by Wind and Solar Power. IEEJ Transactions on Power and Energy, 2012, 132, 468-477.	0.1	1
159	Dynamics of HBV model with intermittent antiviral therapy. , 2011, , .		0
160	The double-assignment method for the exponential chaotic tabu search in quadratic assignment problems. Nonlinear Theory and Its Applications IEICE, 2011, 2, 472-484.	0.4	0
161	Associative dynamics of color images in a large-scale chaotic neural network. Nonlinear Theory and Its Applications IEICE, 2011, 2, 508-521.	0.4	8
162	Boundary Feedback Control of Coupled Hyperbolic Linear PDEs Systems with Nonlinear Boundary Conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14464-14469.	0.4	2

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163	Greedy versus social: resource-competing oscillator network as a model of amoeba-based neurocomputer. Natural Computing, 2011, 10, 1219-1244.	1.8	6
164	Quaternion-valued short-term joint forecasting of three-dimensional wind and atmospheric parameters. Renewable Energy, 2011, 36, 1754-1760.	4.3	78
165	Nonlinear systems identification by combining regression with bootstrap resampling. Chaos, 2011, 21, 043121.	1.0	10
166	Forced chaos generator with switched CMOS active inductance. , 2011, , .		0
167	Controllability and observability of networked systems of linear hyperbolic partial differential equations. , 2011, , .		1
168	Theory and Applications of Chaotic Optimization Methods. Studies in Computational Intelligence, 2011, , 131-161.	0.7	6
169	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
170	Mathematical modelling of prostate cancer growth and its application to hormone therapy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5029-5044.	1.6	78
171	A Mathematical Model of Prostate Tumor Growth Under Hormone Therapy with Mutation Inhibitor. Journal of Nonlinear Science, 2010, 20, 219-240.	1.0	26
172	Development of a mathematical model that predicts the outcome of hormone therapy for prostate cancer. Journal of Theoretical Biology, 2010, 264, 517-527.	0.8	120
173	The role of chaotic resonance in cerebellar learning. Neural Networks, 2010, 23, 836-842.	3.3	48
174	A discriminative approach for identifying domainâ€“domain interactions from proteinâ€“protein interactions. Proteins: Structure, Function and Bioinformatics, 2010, 78, 1243-1253.	1.5	37
175	Hybrid optimal scheduling for intermittent androgen suppression of prostate cancer. Chaos, 2010, 20, 045125.	1.0	29
176	Identifying hidden common causes from bivariate time series: A method using recurrence plots. Physical Review E, 2010, 81, 016203.	0.8	50
177	Spontaneous mode switching in coupled oscillators competing for constant amounts of resources. Chaos, 2010, 20, 013117.	1.0	8
178	QUANTITATIVE MODELING OF SPATIO-TEMPORAL DYNAMICS OF INFERIOR OLIVE NEURONS WITH A SIMPLE CONDUCTANCE-BASED MODEL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 583-603.	0.7	17
179	DEFINITION OF DISTANCE FOR MARKED POINT PROCESS DATA AND ITS APPLICATION TO RECURRENCE PLOT-BASED ANALYSIS OF EXCHANGE TICK DATA OF FOREIGN CURRENCIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3699-3708.	0.7	41
180	Quaternion-valued short term forecasting of wind profile. , 2010, , .		11

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181	Theory of hybrid dynamical systems and its applications to biological and medical systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4893-4914.	1.6	90
182	Piecewise affine systems modelling for optimizing hormone therapy of prostate cancer. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5045-5059.	1.6	31
183	Devaneyâ€™s chaos on recurrence plots. Physical Review E, 2010, 82, 036209.	0.8	17
184	Modeling Biomolecular Networks in Cells. , 2010, , .		74
185	A Model of Amoeba-Based Neurocomputer. Journal of Computer Chemistry Japan, 2010, 9, 143-156.	0.0	3
186	Modeling dynamics from only output data. Physical Review E, 2009, 79, 056208.	0.8	10
187	AUTOMATIC MODELING OF SIGNALING PATHWAYS BY NETWORK FLOW MODEL. Journal of Bioinformatics and Computational Biology, 2009, 07, 309-322.	0.3	20
188	A MODEL AT THE MACROSCOPIC SCALE OF PROSTATE TUMOR GROWTH UNDER INTERMITTENT ANDROGEN SUPPRESSION. Mathematical Models and Methods in Applied Sciences, 2009, 19, 2177-2201.	1.7	20
189	Self-organization of orientation-selective and ocular-dominance maps through spike-timing-dependent plasticity. Artificial Life and Robotics, 2009, 14, 371-374.	0.7	0
190	Switching phenomenon induced by breakdown of chaotic phase synchronization. Physica D: Nonlinear Phenomena, 2009, 238, 1197-1202.	1.3	6
191	Amoeba-based Chaotic Neurocomputing: Combinatorial Optimization by Coupled Biological Oscillators. New Generation Computing, 2009, 27, 129-157.	2.5	36
192	Grazing-induced crises in hybrid dynamical systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3134-3139.	0.9	5
193	Representing spike trains using constant sampling intervals. Journal of Neuroscience Methods, 2009, 183, 277-286.	1.3	20
194	Complex-valued prediction of wind profile using augmented complex statistics. Renewable Energy, 2009, 34, 196-201.	4.3	104
195	Time-varying irregularities in multiple trial spike data. European Physical Journal B, 2009, 68, 283-289.	0.6	4
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