Wai-Ki Ching

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5164907/publications.pdf

Version: 2024-02-01

98	621	840776	752698
papers	citations	11 h-index	20 g-index

100	100	100	501
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An approximation method for solving the steady-state probability distribution of probabilistic Boolean networks. Bioinformatics, 2007, 23, 1511-1518.	4.1	75
2	ON CONSTRUCTION OF STOCHASTIC GENETIC NETWORKS BASED ON GENE EXPRESSION SEQUENCES. International Journal of Neural Systems, 2005, 15, 297-310.	5.2	49
3	On a multivariate Markov chain model for credit risk measurement. Quantitative Finance, 2005, 5, 543-556.	1.7	36
4	Optimal investment-reinsurance with dynamic risk constraint and regime switching. Scandinavian Actuarial Journal, 2013, 2013, 263-285.	1.7	21
5	A weighted Local Least Squares Imputation method for missing value estimation in microarray gene expression data. International Journal of Data Mining and Bioinformatics, 2010, 4, 331.	0.1	20
6	Inducing high service capacities in outsourcingviapenalty and competition. International Journal of Production Research, 2011, 49, 5169-5182.	7.5	18
7	Integer programmingâ€based method for observability of singleton attractors in Boolean networks. IET Systems Biology, 2017, 11, 30-35.	1.5	16
8	Inverse Toeplitz preconditioners for Hermitian Toeplitz systems. Numerical Linear Algebra With Applications, 2005, 12, 221-229.	1.6	14
9	On Construction of Sparse Probabilistic Boolean Networks. East Asian Journal on Applied Mathematics, 2012, 2, 1-18.	0.9	14
10	A systematic framework to derive N-glycan biosynthesis process and the automated construction of glycosylation networks. BMC Bioinformatics, 2016, 17, 240.	2.6	13
11	Switching-based stabilization of aperiodic sampled-data Boolean control networks with all subsystems unstable. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 260-267.	2.6	13
12	Stabilization of Aperiodic Sampled-Data Boolean Control Networks: A Delay Approach. IEEE Transactions on Automatic Control, 2021, 66, 5606-5611.	5.7	12
13	Construction of Probabilistic Boolean Networks from a Prescribed Transition Probability Matrix: A Maximum Entropy Rate Approach. East Asian Journal on Applied Mathematics, 2011, 1, 132-154.	0.9	11
14	On Optimal Cash Management under a Stochastic Volatility Model. East Asian Journal on Applied Mathematics, 2013, 3, 81-92.	0.9	11
15	Matrix factorization-based data fusion for the prediction of RNA-binding proteins and alternative splicing event associations during epithelialâ€“mesenchymal transition. Briefings in Bioinformatics, 2021, 22, .	6.5	11
16	A Blockchain-IoT Platform for the Smart Pallet Pooling Management. Sensors, 2021, 21, 6310.	3.8	11
17	Numerical algorithms for dynamic traffic demand estimation between zones in a network. Engineering Optimization, 2004, 36, 379-400.	2.6	10
18	Extracting Information from Spot Interest Rates and Credit Ratings using Double Higher-Order Hidden Markov Models. Computational Economics, 2005, 26, 69-102.	2.6	10

#	Article	IF	Citations
19	On pricing basket credit default swaps. Quantitative Finance, 2013, 13, 1845-1854.	1.7	10
20	Hadamard Kernel SVM with applications for breast cancer outcome predictions. BMC Systems Biology, 2017, 11, 138.	3.0	10
21	Prediction of RNA-binding protein and alternative splicing event associations during epithelialâ€“mesenchymal transition based on inductive matrix completion. Briefings in Bioinformatics, 2021, 22, .	6.5	10
22	Modeling Default Data Via an Interactive Hidden Markov Model. Computational Economics, 2009, 34, 1-19.	2.6	9
23	On product of positive L-R fuzzy numbers and its application to multi-period portfolio selection problems. Fuzzy Optimization and Decision Making, 2020, 19, 53-79.	5.5	9
24	Knowledge discovery for pancreatic cancer using inductive logic programming. IET Systems Biology, 2014, 8, 162-168.	1.5	8
25	Sparse solution of nonnegative least squares problems with applications in the construction of probabilistic Boolean networks. Numerical Linear Algebra With Applications, 2015, 22, 883-899.	1.6	8
26	Discrete-time optimal asset allocation under Higher-Order Hidden Markov Model. Economic Modelling, 2017, 66, 223-232.	3.8	8
27	On predicting epithelial mesenchymal transition by integrating RNA-binding proteins and correlation data via L1/2-regularization method. Artificial Intelligence in Medicine, 2019, 95, 96-103.	6.5	8
28	A New Estimation Method for Multivariate Markov Chain Model with Application in Demand Predictions. , 2010, , .		7
29	FINDING AND ANALYZING THE MINIMUM SET OF DRIVER NODES IN CONTROL OF BOOLEAN NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2016, 19, 1650006.	1.4	7
30	Option Pricing Under a Stochastic Interest Rate and Volatility Model with Hidden Markovian Regime-Switching. Computational Economics, 2019, 53, 555-586.	2.6	7
31	A hybrid algorithm for queueing systems. Calcolo, 2004, 41, 139-151.	1.1	6
32	ANNOTATING GENE FUNCTIONS WITH INTEGRATIVE SPECTRAL CLUSTERING ON MICROARRAY EXPRESSIONS AND SEQUENCES. , 2010, , .		6
33	Optimal advertising outsourcing strategy with different effort levels and uncertain demand. International Journal of Production Research, 2020, 58, 2016-2035.	7.5	6
34	Joint inspection and inventory control for deteriorating items with time-dependent demand and deteriorating rate. Annals of Operations Research, 2021, 300, 225-265.	4.1	6
35	Incentive Effects of Multiple-Server Queueing Networks: The Principal-Agent Perspective. East Asian Journal on Applied Mathematics, 2011, 1, 379-402.	0.9	6
36	On the number of driver nodes for controlling a Boolean network when the targets are restricted to attractors. Journal of Theoretical Biology, 2019, 463, 1-11.	1.7	5

#	Article	IF	Citations
37	Modeling Credit Risk with Hidden Markov Default Intensity. Computational Economics, 2019, 54, 1213-1229.	2.6	5
38	Unsupervised Learning Framework With Multidimensional Scaling in Predicting Epithelial-Mesenchymal Transitions. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 2714-2723.	3.0	5
39	Superresolution image reconstruction from blurred observations by multisensors. International Journal of Imaging Systems and Technology, 2003, 13, 153-160.	4.1	4
40	A Multiple Regression Approach for Building Genetic Networks. , 2008, , .		4
41	Analyses and Algorithms for Predecessor and Control Problems for Boolean Networks of Bounded Indegree. IPSJ Transactions on Bioinformatics, 2008, 1, 23-34.	0.2	4
42	Finding optimal control policy in Probabilistic Boolean Networks with hard constraints by using integer programming and dynamic programming. , 2010, , .		4
43	Support Vector Machine Methods for the Prediction of Cancer Growth. , 2010, , .		4
44	Discrimination of attractors with noisy nodes in Boolean networks. Automatica, 2021, 130, 109630.	5.0	4
45	Optimal pairs trading with dynamic mean-variance objective. Mathematical Methods of Operations Research, 2021, 94, 145-168.	1.0	4
46	ON THE COMPLEXITY OF FINDING CONTROL STRATEGIES FOR BOOLEAN NETWORKS. , 2005, , .		4
47	High-resolution image reconstruction from rotated and translated low-resolution images with multisensors. International Journal of Imaging Systems and Technology, 2004, 14, 75-83.	4.1	3
48	A Simplified Multivariate Markov Chain Model for the Construction and Control of Genetic Regulatory Networks. , 2008, , .		3
49	A smoothing Newton's method for the construction of a damped vibrating system from noisy test eigendata. Numerical Linear Algebra With Applications, 2009, 16, 109-128.	1.6	3
50	Option Valuation under a Multivariate Markov Chain Model. , 2010, , .		3
51	Finding optimal control policy by using dynamic programming in conjunction with state reduction. , 2011, , .		3
52	An Efficient Method of Computing Impact Degrees for Multiple Reactions in Metabolic Networks with Cycles. IEICE Transactions on Information and Systems, 2011, E94-D, 2393-2399.	0.7	3
53	Modeling genetic regulatory networks: a delay discrete dynamical model approach. Journal of Systems Science and Complexity, 2012, 25, 1052-1067.	2.8	3
54	On Perturbation Bounds for the Joint Stationary Distribution of Multivariate Markov Chain Models. East Asian Journal on Applied Mathematics, 2013, 3, 1-17.	0.9	3

#	Article	IF	Citations
55	Mechanism Design of Fashion Virtual Enterprise under Monitoring Strategy. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	3
56	On Modeling Economic Default Time: A Reduced-Form Model Approach. Computational Economics, 2016, 47, 157-177.	2.6	3
57	A Higher-order interactive hidden Markov model and its applications. OR Spectrum, 2017, 39, 1055-1069.	3.4	3
58	Discovery of Boolean metabolic networks: integer linear programming based approach. BMC Systems Biology, 2018, 12, 7.	3.0	3
59	A Semi-smooth Newton Method for Inverse Problem with Uniform Noise. Journal of Scientific Computing, 2018, 75, 713-732.	2.3	3
60	On the Complexity of Inference and Completion of Boolean Networks from Given Singleton Attractors. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 2265-2274.	0.3	3
61	A direct method for solving block-Toeplitz with near-circulant-block systems with applications to hybrid manufacturing systems. Numerical Linear Algebra With Applications, 2005, 12, 957-966.	1.6	2
62	A Stochastic Optimization Model for Consecutive Promotion. Quality Technology and Quantitative Management, 2008, 5, 403-414.	1.9	2
63	A Markovian Model for Default Risk in a Network of Sectors. , 2009, , .		2
64	Modeling default risk via a hidden Markov model of multiple sequences. Frontiers of Computer Science, 2010, 4, 187-195.	0.6	2
65	Quantity discount contract for supply chain coordination with false failure returns. , 2010, , .		2
66	On improving incentive in a supply chain: Wholesale price contract vs quantity dependent contract. , 2010, , .		2
67	Simultaneous cartoon and texture reconstruction for image restoration by bivariate function. Applicable Analysis, 2011, 90, 1275-1289.	1.3	2
68	Interacting default intensity with a hidden Markov process. Quantitative Finance, 2017, 17, 781-794.	1.7	2
69	Trading strategy with stochastic volatility in a limit order book market. Decisions in Economics and Finance, 2020, 43, 277-301.	1.8	2
70	Pricing vulnerable options under a jump-diffusion model with fast mean-reverting stochastic volatility. Journal of Industrial and Management Optimization, 2022, 18, 2077.	1.3	2
71	Quantiles on Stream: An Application to Monte Carlo Simulation. Journal of Systems Science and Information, 2016, 4, 334-342.	0.6	2
72	Classroom note: Building simple hidden Markov models. International Journal of Mathematical Education in Science and Technology, 2004, 35, 296-299.	1.4	1

#	Article	IF	Citations
73	Incentive effects of common and separate queues with multiple servers: The principal-agent perspective. , 2009, , .		1
74	A New Optimization Model for the Construction of Markov Chains. , 2009, , .		1
75	Perturbation analysis for the sign functions of regular matrix pairs. Numerical Linear Algebra With Applications, 2011, 18, 189-203.	1.6	1
76	On Infectious Models for Dependent Default Risk. , 2011, , .		1
77	Optimal Submission Problem in a Limit Order Book with VaR Constraints. , 2012, , .		1
78	Metabolite biomarker discovery for metabolic diseases by flux analysis. , 2012, , .		1
79	Asset Allocation under Regime-Switching Models. , 2012, , .		1
80	On Generating Optimal Sparse Probabilistic Boolean Networks with Maximum Entropy from a Positive Stationary Distribution. East Asian Journal on Applied Mathematics, 2012, 2, 353-372.	0.9	1
81	A semi-tensor product approach for Probabilistic Boolean Networks. , 2014, , .		1
82	A hidden Markov reduced-form risk model. , 2014, , .		1
83	Optimal projection method determination by Logdet Divergence and perturbed von-Neumann Divergence. BMC Systems Biology, 2017, 11, 115.	3.0	1
84	On Optimal Pricing Model for Multiple Dealers in a Competitive Market. Computational Economics, 2019, 53, 397-431.	2.6	1
85	On the Distribution of Successor States in Boolean Threshold Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4147-4159.	11.3	1
86	A RECURSIVE METHOD FOR SOLVING HAPLOTYPE FREQUENCIES IN MULTIPLE LOCI LINKAGE ANALYSIS. , 2005, , .		0
87	A linear control model for gene intervention in a genetic regulatory network. , 2005, , .		0
88	Finding Incoming Global States in Boolean Networks. , 2007, , .		0
89	Performance analysis based Markov theory for Hybrid control serial production lines. , 2010, , .		0
90	Analysis of Moral Hazard in Virtual Enterprise Based on Random Constraints. , 2010, , .		0

#	Article	IF	Citations
91	A modified newton's method for inverse problem of Probabilistic Boolean Networks with gene perturbations. , 2011, , .		0
92	The role of Eigen-matrix translation in classification of biological datasets. , 2012, , .		0
93	On pricing and hedging basket credit derivatives with dependent structure. , 2014, , .		0
94	On observability of attractors in Boolean Networks. , 2015, , .		0
95	On using physico-chemical properties of amino acids in string kernels for protein classification via support vector machines. Journal of Systems Science and Complexity, 2015, 28, 504-516.	2.8	0
96	Optimal Strategy for Limit Order Book Submissions in High Frequency Trading. East Asian Journal on Applied Mathematics, 2016, 6, 222-234.	0.9	0
97	On the Compressive Power of Boolean Threshold Autoencoders. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 921-931.	11.3	0
98	An average-value-at-risk criterion for Markov decision processes with unbounded costs. Frontiers of Mathematics in China, 0, , 1.	0.7	0