

Binghuang Cai

List of Publications by Year in descending order

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33
papers

832
citations

567281

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docs citations

33
times ranked

472
citing authors

#	ARTICLE	IF	CITATIONS
1	From Zhang Neural Network to Newton Iteration for Matrix Inversion. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 1405-1415.	5.4	171
2	Zhang neural network solving for time-varying full-rank matrix Moore-Penrose inverse. Computing (Vienna/New York), 2011, 92, 97-121.	4.8	122
3	Different-Level Redundancy-Resolution and Its Equivalent Relationship Analysis for Robot Manipulators Using Gradient-Descent and Zhang 's Neural-Dynamic Methods. IEEE Transactions on Industrial Electronics, 2012, 59, 3146-3155.	7.9	93
4	Optimisation for job scheduling at automated container terminals using genetic algorithm. Computers and Industrial Engineering, 2013, 64, 511-523.	6.3	51
5	Bi-criteria optimal control of redundant robot manipulators using LVI-based primal-dual neural network. Optimal Control Applications and Methods, 2010, 31, 213-229.	2.1	35
6	Zhang neural network and its application to Newton iteration for matrix square root estimation. Neural Computing and Applications, 2012, 21, 453-460.	5.6	30
7	Rescheduling policies for large-scale task allocation of autonomous straddle carriers under uncertainty at automated container terminals. Robotics and Autonomous Systems, 2014, 62, 506-514.	5.1	30
8	Equivalence of velocity-level and acceleration-level redundancy-resolution of manipulators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3450-3453.	2.1	29
9	Infinity-norm acceleration minimization of robotic redundant manipulators using the LVI-based primal-dual neural network. Robotics and Computer-Integrated Manufacturing, 2009, 25, 358-365.	9.9	28
10	A novel artificial neural network method for biomedical prediction based on matrix pseudo-inversion. Journal of Biomedical Informatics, 2014, 48, 114-121.	4.3	27
11	Clinical relevance of short-chain acyl-CoA dehydrogenase (SCAD) deficiency: Exploring the role of new variants including the first SCAD-disease-causing allele carrying a synonymous mutation. BBA Clinical, 2016, 5, 114-119.	4.1	27
12	Bi-criteria Velocity Minimization of Robot Manipulators Using a Linear Variational Inequalities-Based Primal-Dual Neural Network and PUMA560 Example. Advanced Robotics, 2008, 22, 1479-1496.	1.8	26
13	Remedy scheme and theoretical analysis of joint-angle drift phenomenon for redundant robot manipulators. Robotics and Computer-Integrated Manufacturing, 2011, 27, 860-869.	9.9	21
14	Computational methods for ubiquitination site prediction using physicochemical properties of protein sequences. BMC Bioinformatics, 2016, 17, 116.	2.6	20
15	Multiobjective Optimization for Autonomous Straddle Carrier Scheduling at Automated Container Terminals. IEEE Transactions on Automation Science and Engineering, 2013, 10, 711-725.	5.2	19
16	Zhang neural network without using time-derivative information for constant and time-varying matrix inversion. , 2008, , .		18
17	Common Nature of Learning Exemplified by BP and Hopfield Neural Networks for Solving Online a System of Linear Equations. , 2008, , .		10
18	Self-motion planning of redundant robot manipulators based on quadratic program and shown via PA10 example. , 2008, , .		9

#	ARTICLE	IF	CITATIONS
19	A comparative analysis of methods for predicting clinical outcomes using high-dimensional genomic datasets. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2014, 21, e312-e319.	4.4	9
20	MATLAB Simulink Modeling of Zhang Neural Network Solving for Time-Varying Pseudoinverse in Comparison with Gradient Neural Network. , 2008, , .		8
21	Revealing Biological Pathways Implicated in Lung Cancer from TCGA Gene Expression Data Using Gene Set Enrichment Analysis. <i>Cancer Informatics</i> , 2014, 13s1, CIN.S13882.	1.9	8
22	Optimality principles in variable stiffness control: The VSA hammer. , 2011, , .		7
23	MATLAB Simulink Modeling and Simulation of Zhang Neural Network for Online Time-Varying Matrix Inversion. , 2008, , .		6
24	On the Variable Step-Size of Discrete-Time Zhang Neural Network and Newton Iteration for Constant Matrix Inversion. , 2008, , .		6
25	Zhang equivalence of different-level robotic schemes: An MVN case study based on PA10 robot manipulator. , 2013, , .		6
26	Common nature of learning between BP and hopfield-type neural networks for convex quadratic minimization with simplified network models. , 2009, , .		4
27	Equivalent relationship between velocity- and acceleration-level redundancy-resolution schemes exemplified via multi-link planar robot arms. , 2009, , .		3
28	Quadratic-programming based self-motion planning with no target-configuration assigned for planar robot arms. , 2010, , .		3
29	Performance analysis of LVI-based PDNN applied to real-time solution of time-varying quadratic programming. , 2014, , .		3
30	Optimisation model and exact algorithm for autonomous straddle carrier scheduling at automated container terminals. , 2011, , .		2
31	Despeckling of medical ultrasound images using multiscale weighting nonlinear diffusion. , 2014, , .		1
32	Apply signum-activated WASD neuronet to learning XOR logic via noisy input and output data. , 2015, , .		0
33	Optimisation model and exact algorithm for Autonomous Straddle Carrier Scheduling at automated container terminals. , 2011, , .		0