

Guancheng Wang

List of Publications by Year in descending order

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45
papers

2,963
citations

201575

27
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265120

42
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45
all docs

45
docs citations

45
times ranked

1013
citing authors

#	ARTICLE	IF	CITATIONS
1	Manipulability Optimization of Redundant Manipulators Using Dynamic Neural Networks. IEEE Transactions on Industrial Electronics, 2017, 64, 4710-4720.	5.2	286
2	Robot manipulator control using neural networks: A survey. Neurocomputing, 2018, 285, 23-34.	3.5	228
3	Design and Analysis of FTZNN Applied to the Real-Time Solution of a Nonstationary Lyapunov Equation and Tracking Control of a Wheeled Mobile Manipulator. IEEE Transactions on Industrial Informatics, 2018, 14, 98-105.	7.2	209
4	Distributed Task Allocation of Multiple Robots: A Control Perspective. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 693-701.	5.9	181
5	RNN Models for Dynamic Matrix Inversion: A Control-Theoretical Perspective. IEEE Transactions on Industrial Informatics, 2018, 14, 189-199.	7.2	173
6	Zeroing neural networks: A survey. Neurocomputing, 2017, 267, 597-604.	3.5	150
7	Cooperative Motion Generation in a Distributed Network of Redundant Robot Manipulators With Noises. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1715-1724.	5.9	138
8	A Noise-Suppressing Neural Algorithm for Solving the Time-Varying System of Linear Equations: A Control-Based Approach. IEEE Transactions on Industrial Informatics, 2019, 15, 236-246.	7.2	129
9	RNN for Solving Perturbed Time-Varying Underdetermined Linear System With Double Bound Limits on Residual Errors and State Variables. IEEE Transactions on Industrial Informatics, 2019, 15, 5931-5942.	7.2	127
10	Discrete-Time Zhang Neural Network for Online Time-Varying Nonlinear Optimization With Application to Manipulator Motion Generation. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1525-1531.	7.2	125
11	RNN for Solving Time-Variant Generalized Sylvester Equation With Applications to Robots and Acoustic Source Localization. IEEE Transactions on Industrial Informatics, 2020, 16, 6359-6369.	7.2	118
12	Continuous and discrete Zhang dynamics for real-time varying nonlinear optimization. Numerical Algorithms, 2016, 73, 115-140.	1.1	104
13	On Generalized RMP Scheme for Redundant Robot Manipulators Aided With Dynamic Neural Networks and Nonconvex Bound Constraints. IEEE Transactions on Industrial Informatics, 2019, 15, 5172-5181.	7.2	99
14	New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2611-2623.	5.9	80
15	Nonconvex function activated zeroing neural network models for dynamic quadratic programming subject to equality and inequality constraints. Neurocomputing, 2017, 267, 107-113.	3.5	78
16	Complex-Valued Discrete-Time Neural Dynamics for Perturbed Time-Dependent Complex Quadratic Programming With Applications. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3555-3569.	7.2	72
17	A Data-Driven Cyclic-Motion Generation Scheme for Kinematic Control of Redundant Manipulators. IEEE Transactions on Control Systems Technology, 2021, 29, 53-63.	3.2	69
18	Enhanced discrete-time Zhang neural network for time-variant matrix inversion in the presence of bias noises. Neurocomputing, 2016, 207, 220-230.	3.5	60

#	ARTICLE	IF	CITATIONS
19	Nonconvex projection activated zeroing neurodynamic models for time-varying matrix pseudoinversion with accelerated finite-time convergence. Applied Soft Computing Journal, 2018, 62, 840-850.	4.1	59
20	Neural network-based discrete-time Z-type model of high accuracy in noisy environments for solving dynamic system of linear equations. Neural Computing and Applications, 2018, 29, 1217-1232.	3.2	53
21	Discrete Computational Neural Dynamics Models for Solving Time-Dependent Sylvester Equation With Applications to Robotics and MIMO Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 6231-6241.	7.2	48
22	New Zeroing Neural Network Models for Solving Nonstationary Sylvester Equation With Verifications on Mobile Manipulators. IEEE Transactions on Industrial Informatics, 2019, 15, 5011-5022.	7.2	45
23	Tracking control of modified Lorenz nonlinear system using ZG neural dynamics with additive input or mixed inputs. Neurocomputing, 2016, 196, 82-94.	3.5	43
24	Dynamic neural networks aided distributed cooperative control of manipulators capable of different performance indices. Neurocomputing, 2018, 291, 50-58.	3.5	41
25	Modified gradient neural networks for solving the time-varying Sylvester equation with adaptive coefficients and elimination of matrix inversion. Neurocomputing, 2020, 379, 1-11.	3.5	39
26	Novel Joint-Drift-Free Scheme at Acceleration Level for Robotic Redundancy Resolution with Tracking Error Theoretically Eliminated. IEEE/ASME Transactions on Mechatronics, 2020, , 1-1.	3.7	37
27	A parallel computing method based on zeroing neural networks for time-varying complex-valued matrix Moore-Penrose inversion. Information Sciences, 2020, 524, 216-228.	4.0	33
28	Convergence and robustness of bounded recurrent neural networks for solving dynamic Lyapunov equations. Information Sciences, 2022, 588, 106-123.	4.0	23
29	Two neural dynamics approaches for computing system of time-varying nonlinear equations. Neurocomputing, 2020, 394, 84-94.	3.5	22
30	A noise-suppressing Newton-Raphson iteration algorithm for solving the time-varying Lyapunov equation and robotic tracking problems. Information Sciences, 2021, 550, 239-251.	4.0	17
31	An Integration-Implemented Newton-Raphson Iterated Algorithm With Noise Suppression for Finding the Solution of Dynamic Sylvester Equation. IEEE Access, 2020, 8, 34492-34499.	2.6	15
32	Modified Newton Integration Algorithm With Noise Tolerance Applied to Robotics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2134-2144.	5.9	10
33	Modified Newton integration neural algorithm for solving the multi-linear M -tensor equation. Applied Soft Computing Journal, 2020, 96, 106674.	4.1	9
34	Sentiment Analysis of Review Data Using Blockchain and LSTM to Improve Regulation for a Sustainable Market. Journal of Theoretical and Applied Electronic Commerce Research, 2022, 17, 1-19.	3.1	9
35	A Novel Method for Food Market Regulation by Emotional Tendencies Predictions from Food Reviews Based on Blockchain and SAEs. Foods, 2021, 10, 1398.	1.9	8
36	Modified Newton integration algorithm with noise suppression for online dynamic nonlinear optimization. Numerical Algorithms, 2021, 87, 575-599.	1.1	6

#	ARTICLE	IF	CITATIONS
37	Missing-Code-Occurrence Probability Calibration Technique for DAC Nonlinearity With Supply and Reference Circuit Analysis in a SAR ADC. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3707-3719.	3.5	4
38	An Investigation on CCT and Ra Optimization for Trichromatic White LEDs Using a Dual-Weight-Coefficient-Based Algorithm. Micromachines, 2022, 13, 276.	1.4	4
39	Gain Error Calibrations for Two-Step ADCs: Optimizations Either in Accuracy or Chip Area. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2279-2289.	2.1	3
40	Discrete-time ZNN algorithms for time-varying linear matrix-vector inequality solving. , 2012, , .		2
41	Two Modified Newton-Raphson Iteration Algorithms for Yang-Baxter-like Matrix Equation with Step-Size Analyses. , 2020, , .		2
42	A robust newton iterative algorithm for acoustic location based on solving linear matrix equations in the presence of various noises. Applied Intelligence, 2023, 53, 1219-1232.	3.3	2
43	Significant Wave Height Prediction Based on MSFD Neural Network. , 2019, , .		1
44	Noise-tolerant gradient-oriented neurodynamic model for solving the Sylvester equation. Applied Soft Computing Journal, 2021, 109, 107514.	4.1	1
45	A Generalized Complex-Valued Constrained Energy Minimization Scheme for the Arctic Sea Ice Extraction Aided With Neural Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	1