

Jianchang Liu

List of Publications by Year in descending order

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82
docs citations

82
times ranked

748
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-stage R2 indicator based evolutionary algorithm for many-objective optimization. Applied Soft Computing Journal, 2018, 67, 245-260.	7.2	76
2	A multi-objective differential evolutionary algorithm for constrained multi-objective optimization problems with low feasible ratio. Applied Soft Computing Journal, 2019, 80, 42-56.	7.2	71
3	A consensus-based multi-agent approach for estimation in robust fault detection. ISA Transactions, 2014, 53, 1562-1568.	5.7	42
4	Consensus stabilization of stochastic multi-agent system with Markovian switching topologies and stochastic communication noise. Journal of the Franklin Institute, 2015, 352, 3684-3700.	3.4	42
5	Consensus stabilization in stochastic multi-agent systems with Markovian switching topology, noises and delay. Neurocomputing, 2016, 200, 1-10.	5.9	41
6	Surrogate-Assisted Multipopulation Particle Swarm Optimizer for High-Dimensional Expensive Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4671-4684.	9.3	41
7	A novel multi-mode data processing method and its application in industrial process monitoring. Journal of Chemometrics, 2015, 29, 126-138.	1.3	39
8	A constrained multi-objective evolutionary algorithm based on decomposition and dynamic constraint-handling mechanism. Applied Soft Computing Journal, 2020, 89, 106104.	7.2	39
9	An affinity propagation clustering based particle swarm optimizer for dynamic optimization. Knowledge-Based Systems, 2020, 195, 105711.	7.1	37
10	Stable recursive canonical variate state space modeling for time-varying processes. Control Engineering Practice, 2015, 36, 113-119.	5.5	27
11	Recursive Fault Detection and Identification for Time-Varying Processes. Industrial & Engineering Chemistry Research, 2016, 55, 12149-12160.	3.7	26
12	Consensus Tracking Algorithm Via Observer-Based Distributed Output Feedback for Multi-Agent Systems Under Switching Topology. Circuits, Systems, and Signal Processing, 2014, 33, 3037-3052.	2.0	25
13	Fault diagnosis using kNN reconstruction on MRI variables. Journal of Chemometrics, 2015, 29, 399-410.	1.3	25
14	Single phase fault diagnosis and location in active distribution network using synchronized voltage measurement. International Journal of Electrical Power and Energy Systems, 2020, 117, 105572.	5.5	24
15	An R2 indicator and weight vector-based evolutionary algorithm for multi-objective optimization. Soft Computing, 2020, 24, 5079-5100.	3.6	17
16	A Decision Variable Assortment-Based Evolutionary Algorithm for Dominance Robust Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3360-3375.	9.3	17
17	Fault Detection Based on Diffusion Maps and k -Nearest Neighbor Diffusion Distance of Feature Space. Journal of Chemical Engineering of Japan, 2015, 48, 756-765.	0.6	16
18	Consensus gain conditions of stochastic multi-agent system with communication noise. International Journal of Control, Automation and Systems, 2016, 14, 1223-1230.	2.7	16

#	ARTICLE	IF	CITATIONS
19	New Results on Eigenvalue Distribution and Controller Design for Time Delay Systems. IEEE Transactions on Automatic Control, 2017, 62, 2886-2901.	5.7	16
20	Supervised convolutional autoencoder-based fault-relevant feature learning for fault diagnosis in industrial processes. Journal of the Taiwan Institute of Chemical Engineers, 2022, 132, 104200.	5.3	16
21	Ultra-fast formation control of high-order discrete-time multi-agent systems based on multi-step predictive mechanism. ISA Transactions, 2015, 58, 165-172.	5.7	15
22	Multi-tracking control of heterogeneous multi-agent systems with single-input single-output based on complex frequency domain analysis. IET Control Theory and Applications, 2016, 10, 861-868.	2.1	15
23	A partition-based constrained multi-objective evolutionary algorithm. Swarm and Evolutionary Computation, 2021, 66, 100940.	8.1	15
24	New result on PID controller design of LTI systems via dominant eigenvalue assignment. Automatica, 2015, 62, 93-97.	5.0	14
25	Handling many-objective optimisation problems with R2 indicator and decomposition-based particle swarm optimiser. International Journal of Systems Science, 2019, 50, 320-336.	5.5	14
26	Discrete-time filter proportional-integral-derivative controller design for linear time-invariant systems. Automatica, 2020, 116, 108918.	5.0	14
27	Application of Constrained Multi-objective Evolutionary Algorithm in Multi-Source Compressed-air Pipeline Optimization Problems. IFAC-PapersOnLine, 2018, 51, 168-173.	0.9	13
28	A multi-objective evolutionary algorithm for steady-state constrained multi-objective optimization problems. Applied Soft Computing Journal, 2021, 101, 107042.	7.2	13
29	Efficient recursive canonical variate analysis approach for monitoring time-varying processes. Journal of Chemometrics, 2017, 31, e2858.	1.3	12
30	Efficient recursive kernel canonical variate analysis for monitoring nonlinear time-varying processes. Canadian Journal of Chemical Engineering, 2018, 96, 205-214.	1.7	12
31	Fault diagnosis of nonlinear and large-scale processes using novel modified kernel Fisher discriminant analysis approach. International Journal of Systems Science, 2016, 47, 1095-1109.	5.5	11
32	Nuclear norm subspace identification for continuous-time stochastic systems based on distribution theory method. ISA Transactions, 2018, 83, 165-175.	5.7	11
33	A multi-objective differential evolution algorithm based on domination and constraint-handling switching. Information Sciences, 2021, 579, 796-813.	6.9	11
34	Ultra-fast consensus of discrete-time multi-agent systems under a unified framework. International Journal of Control, 2015, 88, 1123-1132.	1.9	10
35	Industrial process fault detection and diagnosis framework based on enhanced supervised kernel entropy component analysis. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111181.	5.0	10
36	Hybridizing multi-objective, clustering and particle swarm optimization for multimodal optimization. Neural Computing and Applications, 2022, 34, 2247-2274.	5.6	9

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37	A bagging-based surrogate-assisted evolutionary algorithm for expensive multi-objective optimization. <i>Neural Computing and Applications</i> , 2022, 34, 12097-12118.	5.6	9
38	Cooperative output feedback tracking control for multi-agent consensus with time-varying delays and switching topology. <i>Transactions of the Institute of Measurement and Control</i> , 2015, 37, 550-559.	1.7	8
39	Proportional-integral controller for stabilization of second-order delay processes. <i>International Journal of Control, Automation and Systems</i> , 2014, 12, 1197-1206.	2.7	7
40	Robust consensus algorithm for multi-agent systems with exogenous disturbances under convergence conditions. <i>International Journal of Systems Science</i> , 2014, 45, 1869-1879.	5.5	7
41	Ultra-fast consensus of discrete-time multi-agent systems with multi-step predictive output feedback. <i>International Journal of Systems Science</i> , 2016, 47, 1465-1479.	5.5	7
42	New Results on PID Controller Design of Discrete-time Systems via Pole Placement * *This work was supported in part by the National Natural Science Foundation of China (NSFC) (No. 61374137), the IAPI Fundamental Research Funds (2013ZCX02-03), and the Fundamental Research Funds for the Central Universities (N160403003).. <i>IFAC-PapersOnLine</i> , 2017, 50, 6703-6708.	0.9	7
43	Pre-processing for single image dehazing. <i>Signal Processing: Image Communication</i> , 2020, 83, 115777.	3.2	7
44	A multimode process monitoring strategy via improved variational inference Gaussian mixture model based on locality preserving projections. <i>Transactions of the Institute of Measurement and Control</i> , 2022, 44, 1732-1743.	1.7	7
45	Glucose prediction for type 1 diabetes using KLMS algorithm. , 2017, , .		5
46	Nuclear Norm Subspace System Identification and Its Application on a Stochastic Model of Plague. <i>Journal of Systems Science and Complexity</i> , 2020, 33, 43-60.	2.8	5
47	Kernel-Regularized Latent-Variable Regression Models for Dynamic Processes. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5914-5926.	3.7	5
48	Controller design for delay systems via eigenvalue assignment " on a new result in the distribution of quasi-polynomial roots. <i>International Journal of Control</i> , 2015, 88, 2457-2476.	1.9	4
49	Subspace identification for a stochastic model of plague. <i>International Journal of Biomathematics</i> , 2016, 09, 1650069.	2.9	4
50	Fault detection, classification, and location for active distribution network based on neural network and phase angle analysis. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2018, 41, 375-386.	1.1	4
51	Continuous-time Laguerre-based subspace identification utilising nuclear norm minimisation. <i>International Journal of Systems Science</i> , 2021, 52, 157-172.	5.5	4
52	A Data Augmentation Method for Prohibited Item X-Ray Pseudocolor Images in X-Ray Security Inspection Based on Wasserstein Generative Adversarial Network and Spatial-and-Channel Attention Block. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-14.	1.7	4
53	Research on improved particle-swarm-optimization algorithm based on ant-colony-optimization algorithm. , 2017, , .		3
54	An R2 Indicator and Decomposition Based Steady-State Evolutionary Algorithm for Many-Objective Optimization. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-18.	1.1	3

#	ARTICLE	IF	CITATIONS
55	A Surrogate-Assisted Clustering Particle Swarm Optimizer for Expensive Optimization Under Dynamic Environment. , 2020, , .		3
56	Fault detection of continuous glucose measurements based on modified k-medoids clustering algorithm. Neural Computing and Applications, 0, , 1.	5.6	3
57	Closed-loop time-varying continuous-time recursive subspace-based prediction via principle angles rotation. ISA Transactions, 2021, , .	5.7	3
58	Synchronisation of linear high-order multi-agent systems via event-triggered control with limited communication. International Journal of Systems Science, 2017, 48, 2428-2439.	5.5	3
59	Recursive Subspace Identification of Continuous-Time Systems Using Generalized Poisson Moment Functionals. Circuits, Systems, and Signal Processing, 2022, 41, 1848-1868.	2.0	3
60	Improvement and application of Automatic Gauge Control system in hot strip rolling mills. , 2008, , .		2
61	Research on decoupling method of thickness and tension control in rolling process. , 2014, , .		2
62	Blood Glucose Prediction Based on Empirical Mode Decomposition and GA-BP Neural Network. , 2019, , .		2
63	Application of Constrained Multi-objective Evolutionary Algorithm in a Compressed-air Station Scheduling Problem. , 2019, , .		2
64	Investigation of nonlinear orthogonal signal correction algorithm and its effects on multivariate calibration. , 2008, , .		1
65	Research on continuous rolling process control system based on multi-agent. , 2011, , .		1
66	All stabilizing sets for proportional+integral controller of high-order delay processes. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 393-405.	1.0	1
67	Proportional-derivative controllers for stabilisation of first-order processes with time delay. International Journal of Systems Science, 2015, 46, 1065-1079.	5.5	1
68	Subspace identification for a stochastic model of bubonic plague. , 2016, , .		1
69	A new weight vectors generation method for R2 indicator based evolutionary multiobjective optimization algorithm. , 2017, , .		1
70	Many-Objective Particle Swarm Optimization Algorithm Based on Preference. , 2018, , .		1
71	Recursive Subspace identification for time-varying continuous-time stochastic systems via distribution theory. , 2019, , .		1
72	A Matrix Adaptation Evolution Strategy Based Evolution Algorithm for Large-scale Many-objective Optimization. , 2020, , .		1

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73	Closed-loop delta-operator-based subspace identification for continuous-time systems utilising the parity space. International Journal of Systems Science, 2021, 52, 3323-3334.	5.5	1
74	A Lightweight Dangerous Liquid Detection Method Based on Depthwise Separable Convolution for X-Ray Security Inspection. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	1
75	The Application of Neural Network Based on Particle Swarm Optimization in Pattern Recognition of Flatness Signal. , 2006, , .		0
76	Research on the MR-ILQ design method to looper control system in hot strip rolling mills. , 2010, , .		0
77	Fault diagnosis of electro-hydraulic servo valve based on neural network. , 2011, , .		0
78	A progressive fault detection and diagnosis method based on dissimilarity of process data. , 2014, , .		0
79	Stochastic output-only state space modeling based on stable recursive canonical variate analysis. , 2015, , .		0
80	Building dynamic evacuation based on a fly optimization. , 2016, , .		0
81	Process monitoring method based on improved dynamic multi-scale principal component analysis. , 2018, , .		0
82	An Adaptive Evolutionary Multi-objective Algorithm Based on R2 Indicator. , 2019, , .		0