Jianchang Liu

List of Publications by Year in descending order

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82 papers	986 citations	516710 16 h-index	501196 28 g-index
82 all docs	82 docs citations	82 times ranked	748 citing authors

#	Article	IF	Citations
1	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
2	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
3	Hybridizing multi-objective, clustering and particle swarm optimization for multimodal optimization. Neural Computing and Applications, 2022, 34, 2247-2274.	5.6	9
4	Recursive Subspace Identification of Continuous-Time Systems Using Generalized Poisson Moment Functionals. Circuits, Systems, and Signal Processing, 2022, 41, 1848-1868.	2.0	3
5	A multimode process monitoring strategy via improved variational inference Gaussian mixture model based on locality preserving projections. Transactions of the Institute of Measurement and Control, 2022, 44, 1732-1743.	1.7	7
6	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
7	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
8	A bagging-based surrogate-assisted evolutionary algorithm for expensive multi-objective optimization. Neural Computing and Applications, 2022, 34, 12097-12118.	5.6	9
9	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. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.7	4
10	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
11	Kernel-Regularized Latent-Variable Regression Models for Dynamic Processes. Industrial & Engineering Chemistry Research, 2022, 61, 5914-5926.	3.7	5
12	Continuous-time Laguerre-based subspace identification utilising nuclear norm minimisation. International Journal of Systems Science, 2021, 52, 157-172.	5.5	4
13	A multi-objective evolutionary algorithm for steady-state constrained multi-objective optimization problems. Applied Soft Computing Journal, 2021, 101, 107042.	7.2	13
14	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
15	Closed-loop time-varying continuous-time recursive subspace-based prediction via principle angles rotation. ISA Transactions, 2021, , .	5.7	3
16	A partition-based constrained multi-objective evolutionary algorithm. Swarm and Evolutionary Computation, 2021, 66, 100940.	8.1	15
17	A multi-objective differential evolution algorithm based on domination and constraint-handling switching. Information Sciences, 2021, 579, 796-813.	6.9	11
18	An R2 indicator and weight vector-based evolutionary algorithm for multi-objective optimization. Soft Computing, 2020, 24, 5079-5100.	3.6	17

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19	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
20	Nuclear Norm Subspace System Identification and Its Application on a Stochastic Model of Plague. Journal of Systems Science and Complexity, 2020, 33, 43-60.	2.8	5
21	A Surrogate-Assisted Clustering Particle Swarm Optimizer for Expensive Optimization Under Dynamic Environment. , 2020, , .		3
22	A Matrix Adaptation Evolution Strategy Based Evolution Algorithm for Large-scale Many-objective Optimization. , 2020, , .		1
23	Discrete-time filter proportionalâ€“integralâ€“derivative controller design for linear time-invariant systems. Automatica, 2020, 116, 108918.	5.0	14
24	An affinity propagation clustering based particle swarm optimizer for dynamic optimization. Knowledge-Based Systems, 2020, 195, 105711.	7.1	37
25	A constrained multi-objective evolutionary algorithm based on decomposition and dynamic constraint-handling mechanism. Applied Soft Computing Journal, 2020, 89, 106104.	7.2	39
26	Pre-processing for single image dehazing. Signal Processing: Image Communication, 2020, 83, 115777.	3.2	7
27	Blood Glucose Prediction Based on Empirical Mode Decomposition and GA-BP Neural Network. , 2019, , .		2
28	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
29	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
30	Application of Constrained Multi-objective Evolutionary Algorithm in a Compressed-air Station Scheduling Problem. , 2019, , .		2
31	Recursive Subspace identification for time-varying continuous-time stochastic systems via distribution theory. , 2019, , .		1
32	An Adaptive Evolutionary Multi-objective Algorithm Based on R2 Indicator. , 2019, , .		0
33	A two-stage R2 indicator based evolutionary algorithm for many-objective optimization. Applied Soft Computing Journal, 2018, 67, 245-260.	7.2	76
34	Efficient recursive kernel canonical variate analysis for monitoring nonlinear timeâ€varying processes. Canadian Journal of Chemical Engineering, 2018, 96, 205-214.	1.7	12
35	Many-Objective Particle Swarm Optimization Algorithm Based on Preference. , 2018, , .		1
36	Application of Constrained Multi-objective Evolutionary Algorithm in Multi-Source Compressed-air Pipeline Optimization Problems. IFAC-PapersOnLine, 2018, 51, 168-173.	0.9	13

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37	Fault detection, classification, and location for active distribution network based on neural network and phase angle analysis. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2018, 41, 375-386.	1.1	4
38	An R2 Indicator and Decomposition Based Steady-State Evolutionary Algorithm for Many-Objective Optimization. Mathematical Problems in Engineering, 2018, 2018, 1-18.	1.1	3
39	Process monitoring method based on improved dynamic multi-scale principal component analysis. , 2018, , .		0
40	Nuclear norm subspace identification for continuous-time stochastic systems based on distribution theory method. ISA Transactions, 2018, 83, 165-175.	5.7	11
41	New Results on Eigenvalue Distribution and Controller Design for Time Delay Systems. IEEE Transactions on Automatic Control, 2017, 62, 2886-2901.	5.7	16
42	Glucose prediction for type 1 diabetes using KLMS algorithm. , 2017, , .		5
43	Research on improved particle-swarm-optimization algorithm based on ant-colony-optimization algorithm. , 2017, , .		3
44	A new weight vectors generation method for R2 indicator based evolutionary multiobjective optimization algorithm. , 2017, , .		1
45	Efficient recursive canonical variate analysis approach for monitoring timeâ€varying processes. Journal of Chemometrics, 2017, 31, e2858.	1.3	12
46	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).. IFAC-PapersOnLine, 2017, 50, 6703-6708.	0.9	7
47	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
48	Subspace identification for a stochastic model of bubonic plague. , 2016, , .		1
49	Multiâ€tracking control of heterogeneous multiâ€agent systems with singleâ€inputâ€“ singleâ€output based on complex frequency domain analysis. IET Control Theory and Applications, 2016, 10, 861-868.	2.1	15
50	Building dynamic evacuation based on a fly optimization. , 2016, , .		0
51	Subspace identification for a stochastic model of plague. International Journal of Biomathematics, 2016, 09, 1650069.	2.9	4
52	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
53	Recursive Fault Detection and Identification for Time-Varying Processes. Industrial & Engineering Chemistry Research, 2016, 55, 12149-12160.	3.7	26
54	Ultra-fast consensus of discrete-time multi-agent systems with multi-step predictive output feedback. International Journal of Systems Science, 2016, 47, 1465-1479.	5.5	7

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55	Consensus stabilization in stochastic multi-agent systems with Markovian switching topology, noises and delay. Neurocomputing, 2016, 200, 1-10.	5.9	41
56	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
57	Fault Detection Based on Diffusion Maps and <i>k</i> Nearest Neighbor Diffusion Distance of Feature Space. Journal of Chemical Engineering of Japan, 2015, 48, 756-765.	0.6	16
58	Fault diagnosis using kNN reconstruction on MRI variables. Journal of Chemometrics, 2015, 29, 399-410.	1.3	25
59	Controller design for delay systems via eigenvalue assignment â€“ on a new result in the distribution of quasi-polynomial roots. International Journal of Control, 2015, 88, 2457-2476.	1.9	4
60	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
61	Stochastic output-only state space modeling based on stable recursive canonical variate analysis. , 2015, , .		0
62	A novel multiâ€mode data processing method and its application in industrial processâ€‰monitoring. Journal of Chemometrics, 2015, 29, 126-138.	1.3	39
63	Stable recursive canonical variate state space modeling for time-varying processes. Control Engineering Practice, 2015, 36, 113-119.	5.5	27
64	Cooperative output feedback tracking control for multi-agent consensus with time-varying delays and switching topology. Transactions of the Institute of Measurement and Control, 2015, 37, 550-559.	1.7	8
65	Ultra-fast consensus of discrete-time multi-agent systems under a unified framework. International Journal of Control, 2015, 88, 1123-1132.	1.9	10
66	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
67	New result on PID controller design of LTI systems via dominant eigenvalue assignment. Automatica, 2015, 62, 93-97.	5.0	14
68	Proportional-derivative controllers for stabilisation of first-order processes with time delay. International Journal of Systems Science, 2015, 46, 1065-1079.	5.5	1
69	A progressive fault detection and diagnosis method based on dissimilarity of process data. , 2014, , .		0
70	Proportional-integral controller for stabilization of second-order delay processes. International Journal of Control, Automation and Systems, 2014, 12, 1197-1206.	2.7	7
71	All stabilizing sets for proportionalâ€“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
72	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

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73	A consensus-based multi-agent approach for estimation in robust fault detection. ISA Transactions, 2014, 53, 1562-1568.	5.7	42
74	Robust consensus algorithm for multi-agent systems with exogenous disturbances under convergence conditions. International Journal of Systems Science, 2014, 45, 1869-1879.	5.5	7
75	Research on decoupling method of thickness and tension control in rolling process. , 2014, , .		2
76	Research on continuous rolling process control system based on multi-agent. , 2011, , .		1
77	Fault diagnosis of electro-hydraulic servo valve based on neural network. , 2011, , .		0
78	Research on the MR-ILQ design method to looper control system in hot strip rolling mills. , 2010, , .		0
79	Investigation of nonlinear orthogonal signal correction algorithm and its effects on multivariate calibration. , 2008, , .		1
80	Improvement and application of Automatic Gauge Control system in hot strip rolling mills. , 2008, , .		2
81	The Application of Neural Network Based on Particle Swarm Optimization in Pattern Recognition of Flatness Signal. , 2006, , .		0
82	Fault detection of continuous glucose measurements based on modified k-medoids clustering algorithm. Neural Computing and Applications, 0, , 1.	5.6	3