

Yixin Yin

List of Publications by Year in descending order

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160
papers

1,900
citations

304368

22
h-index

315357

38
g-index

164
all docs

164
docs citations

164
times ranked

1466
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time Detection of Steel Strip Surface Defects Based on Improved YOLO Detection Network. IFAC-PapersOnLine, 2018, 51, 76-81.	0.5	215
2	Leader-Follower Output Synchronization of Linear Heterogeneous Systems With Active Leader Using Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2139-2153.	7.2	109
3	Optimal Containment Control of Unknown Heterogeneous Systems With Active Leaders. IEEE Transactions on Control Systems Technology, 2019, 27, 1228-1236.	3.2	80
4	Hamiltonian-Driven Adaptive Dynamic Programming for Continuous Nonlinear Dynamical Systems. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1929-1940.	7.2	74
5	Online barrier-actor-critic learning for H^∞ control with full-state constraints and input saturation. Journal of the Franklin Institute, 2020, 357, 3316-3344.	1.9	67
6	Data-Driven Robust Control of Discrete-Time Uncertain Linear Systems via Off-Policy Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3735-3747.	7.2	63
7	Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6423-6434.	5.9	60
8	Safe Intermittent Reinforcement Learning With Static and Dynamic Event Generators. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5441-5455.	7.2	56
9	A new potential field method for mobile robot path planning in the dynamic environments. Asian Journal of Control, 2009, 11, 214-225.	1.9	54
10	A Novel Online Sequential Extreme Learning Machine for Gas Utilization Ratio Prediction in Blast Furnaces. Sensors, 2017, 17, 1847.	2.1	53
11	Data-Driven Multiobjective Optimization for Burden Surface in Blast Furnace With Feedback Compensation. IEEE Transactions on Industrial Informatics, 2020, 16, 2233-2244.	7.2	51
12	An improved ELM algorithm for the measurement of hot metal temperature in blast furnace. Neurocomputing, 2016, 174, 232-237.	3.5	46
13	Dynamic Intermittent Feedback Design for H_∞ Containment Control on a Directed Graph. IEEE Transactions on Cybernetics, 2020, 50, 3752-3765.	6.2	46
14	An Improved Genetic Algorithm of Optimum Path Planning for Mobile Robots. , 2006, , .		39
15	Online sequential ELM algorithm with forgetting factor for real applications. Neurocomputing, 2017, 261, 144-152.	3.5	34
16	The Prediction of the Gas Utilization Ratio based on TS Fuzzy Neural Network and Particle Swarm Optimization. Sensors, 2018, 18, 625.	2.1	33
17	Recognition of moving ground targets by measuring and processing seismic signal. Measurement: Journal of the International Measurement Confederation, 2005, 37, 189-199.	2.5	32
18	Active control of impulsive noise with symmetric $\hat{\pm}$ -stable distribution based on an improved step-size normalized adaptive algorithm. Mechanical Systems and Signal Processing, 2015, 56-57, 320-339.	4.4	32

#	ARTICLE	IF	CITATIONS
19	Further studies on relaxed stabilization conditions for discrete-time two-dimension Takagi-Sugeno fuzzy systems. Information Sciences, 2012, 189, 143-154.	4.0	29
20	Development of Blast Furnace Burden Distribution Process Modeling and Control. ISIJ International, 2017, 57, 1350-1363.	0.6	28
21	Safety-Aware Reinforcement Learning Framework with an Actor-Critic-Barrier Structure. , 2019, , .		28
22	Adaptive Task-Space Synchronization Control of Bilateral Teleoperation Systems With Uncertain Parameters and Communication Delays. IEEE Access, 2018, 6, 5740-5748.	2.6	26
23	Prediction of the hot metal silicon content in blast furnace based on extreme learning machine. International Journal of Machine Learning and Cybernetics, 2018, 9, 1697-1706.	2.3	26
24	The Exploration/Exploitation Tradeoff in Whale Optimization Algorithm. IEEE Access, 2019, 7, 125919-125928.	2.6	26
25	Prediction model of permeability index for blast furnace based on the improved multi-layer extreme learning machine and wavelet transform. Journal of the Franklin Institute, 2018, 355, 1663-1691.	1.9	25
26	Bilateral Teleoperation of Multiple Robots Under Scheduling Communication. IEEE Transactions on Control Systems Technology, 2020, 28, 1770-1784.	3.2	23
27	A Soft Sensing Scheme of Gas Utilization Ratio Prediction for Blast Furnace Via Improved Extreme Learning Machine. Neural Processing Letters, 2019, 50, 1191-1213.	2.0	21
28	Prediction model of hot metal temperature for blast furnace based on improved multi-layer extreme learning machine. International Journal of Machine Learning and Cybernetics, 2019, 10, 2739-2752.	2.3	20
29	Nonfragile H_{∞} and H_2 Filter Designs for Continuous-Time Linear Systems Based on Randomized Algorithms. IEEE Transactions on Industrial Electronics, 2012, 59, 4433-4442.	5.2	19
30	A modified ELM algorithm for the prediction of silicon content in hot metal. Neural Computing and Applications, 2016, 27, 241-247.	3.2	19
31	Guaranteed cost control design for delayed teleoperation systems. Journal of the Franklin Institute, 2015, 352, 5085-5105.	1.9	17
32	Parallel one-class extreme learning machine for imbalance learning based on Bayesian approach. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	17
33	Composite adaptive control for bilateral teleoperation systems without persistency of excitation. Journal of the Franklin Institute, 2020, 357, 773-795.	1.9	17
34	Klf5 Mediates Odontoblastic Differentiation through Regulating Dentin-Specific Extracellular Matrix Gene Expression during Mouse Tooth Development. Scientific Reports, 2017, 7, 46746.	1.6	16
35	An algorithmic framework of discrete particle swarm optimization. Applied Soft Computing Journal, 2012, 12, 1125-1130.	4.1	15
36	Data-driven prediction model for adjusting burden distribution matrix of blast furnace based on improved multilayer extreme learning machine. Soft Computing, 2018, 22, 3575-3589.	2.1	14

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37	On control design and tuning for first order plus time delay plants with significant uncertainties. , 2015, , .		13
38	Alumina Concentration Detection Based on the Kernel Extreme Learning Machine. Sensors, 2017, 17, 2002.	2.1	13
39	An improved potential field method for mobile robot path planning in dynamic environments. , 2008, , .		12
40	A new result on state feedback robust stabilization for discrete-time fuzzy singularly perturbed systems. Asian Journal of Control, 2012, 14, 784-794.	1.9	12
41	Data-Driven Integral Reinforcement Learning for Continuous-Time Non-Zero-Sum Games. IEEE Access, 2019, 7, 82901-82912.	2.6	12
42	Burden Surface Decision Using MODE With TOPSIS in Blast Furnace Ironmkaing. IEEE Access, 2020, 8, 35712-35725.	2.6	12
43	Neural-network-based adaptive control for bilateral teleoperation with multiple slaves under Round-Robin scheduling protocol. International Journal of Control, 2021, 94, 1461-1474.	1.2	11
44	A Specific Genetic Algorithm for Optimum Path Planning in Intelligent Transportation System. , 2006, , .		10
45	Path planning based on fuzzy logic algorithm for mobile robots in static environment. , 2013, , .		10
46	Acceleration feedback control for nonlinear teleoperation systems with time delays. International Journal of Control, 2015, 88, 507-516.	1.2	10
47	Application of the improved the ELM algorithm for prediction of blast furnace gas utilization rate. IFAC-PapersOnLine, 2018, 51, 59-64.	0.5	9
48	A New Nonlinear Process Monitoring Method Based on Linear and Nonlinear Partition. Industrial & Engineering Chemistry Research, 2019, 58, 17445-17454.	1.8	9
49	Decision-level fusion of infrared and visible images for face recognition. , 2008, , .		8
50	An improved PSO for path planning of mobile robots and its parameters discussion. , 2010, , .		8
51	Kernel online sequential ELM algorithm with sliding window subject to time-varying environments. Memetic Computing, 2018, 10, 43-52.	2.7	8
52	Containment Control of Heterogeneous Systems With Non-Autonomous Leaders: A Distributed Optimal Model Reference Approach. IEEE Access, 2018, 6, 60689-60703.	2.6	8
53	Model-Free Event-Triggered Containment Control of Multi-Agent Systems. , 2018, , .		7
54	A Cognitive Model for Learning Autonomous Nonplayer Characters. , 2006, , .		6

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55	An Imaging Algorithm for Burden Surface with T-shaped MIMO Radar in the Blast Furnace. ISIJ International, 2014, 54, 2831-2836.	0.6	6
56	Off-policy reinforcement learning for robust control of discrete-time uncertain linear systems. , 2017, , .		6
57	IMC-based Design for Teleoperation Systems with Time Delays. International Journal of Control, Automation and Systems, 2018, 16, 887-895.	1.6	6
58	Improved multi-layer online sequential extreme learning machine and its application for hot metal silicon content. Journal of the Franklin Institute, 2020, 357, 12588-12608.	1.9	6
59	An Improved ELM Algorithm Based on EM-ELM and Ridge Regression. Lecture Notes in Computer Science, 2013, , 756-763.	1.0	6
60	Distributed Neural-Network-Based Cooperation Control for Teleoperation of Multiple Mobile Manipulators Under Round-Robin Protocol. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4841-4855.	7.2	6
61	Development of low cost motion-sensing system. Measurement: Journal of the International Measurement Confederation, 2007, 40, 415-421.	2.5	5
62	Fast Automatic Target Detection System Based on a Visible Image Sensor and Ripple Algorithm. IEEE Sensors Journal, 2013, 13, 2720-2728.	2.4	5
63	An Improved Chaos Genetic Algorithm for T-Shaped MIMO Radar Antenna Array Optimization. International Journal of Antennas and Propagation, 2014, 2014, 1-6.	0.7	5
64	Prediction of Hot Metal Silicon Content for Blast Furnace Based on Multi-Layer Online Sequential Extreme Learning Machine. , 2018, , .		5
65	Multiple-Neural-Networks-Based Adaptive Control for Bilateral Teleoperation Systems with Time-Varying Delays. , 2018, , .		5
66	Safe Intermittent Reinforcement Learning for Nonlinear Systems. , 2019, , .		5
67	Adaptive singularity-free controller design of constrained nonlinear systems with prescribed performance. Neurocomputing, 2020, 417, 212-223.	3.5	5
68	Adaptive control of teleoperation systems with prescribed tracking performance: a BLF-based approach. International Journal of Control, 2022, 95, 1600-1610.	1.2	5
69	Data-Driven Nonzero-Sum Game for Discrete-Time Systems Using Off-Policy Reinforcement Learning. IEEE Access, 2020, 8, 14074-14088.	2.6	5
70	The identifier-based relative position estimation for leader-follower robotic system. , 2014, , .		4
71	Active disturbance rejection control in Stribeck friction dynamic compensation for high-accuracy servo systems. , 2016, , .		4
72	Quantitative association rule mining for blast furnace production data. , 2017, , .		4

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73	Robot Obstacle Avoidance based on an Improved Ant Colony Algorithm. , 2009, , .		3
74	Application of fuzzy pattern recognition in burden surface identification. , 2010, , .		3
75	A Specialized Particle Swarm Optimization for global path planning of mobile robots. , 2010, , .		3
76	Fuzzy static output feedback H infinity control for nonlinear systems with time-varying delay: An LMI approach. , 2010, , .		3
77	A Novel Human Motion Tracking Approach Based on a Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2013, 9, 636052.	1.3	3
78	A novel on-line alumina concentration measurement system. , 2015, , .		3
79	An ELM Based Online Soft Sensing Approach for Alumina Concentration Detection. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	3
80	Tracking of stribeck friction based on second-order linear extended state observer. , 2016, , .		3
81	Containment control of heterogeneous systems with active leaders of bounded unknown control using reinforcement learning. , 2017, , .		3
82	Composite Adaptive Control of Teleoperators With Joint Flexibility, Uncertain Parameters, and Time-Delays. IEEE Access, 2019, 7, 115673-115681.	2.6	3
83	Blast furnace condition data clustering based on combination of T-distributed stochastic neighbor embedding and spectral clustering. , 2019, , .		3
84	Visual information processing using cellular neural networks for mobile robot. , 2007, , .		2
85	Comparative Studies of Fuzzy Genetic Algorithms. Lecture Notes in Computer Science, 2007, , 251-256.	1.0	2
86	Study on Tourism Grey Forecast System Based on Multi-agents. , 2008, , .		2
87	Text Classification Based on Rule Mining by Granule Network Constructing. , 2008, , .		2
88	Chinese text sentiment classification based on granule network. , 2009, , .		2
89	The bidirectional associative memory neural network based on fault tree and its application to inverter's fault diagnosis. , 2009, , .		2
90	Task-Oriented Spoken Dialogue System for Humanoid Robot. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
91	A method of inverter circuit fault diagnosis based on BP neural network and D-S evidence theory. , 2010, , .		2
92	Vehicle Tracking Algorithm Based on Observation Feedback and Block Symmetry Particle Filter. Journal of Electrical and Computer Engineering, 2014, 2014, 1-8.	0.6	2
93	An LMI Approach to Guaranteed Cost Control Design for Teleoperation Systems. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	2
94	Research and practice on Aluminum Industry 4.0. , 2015, , .		2
95	Notice of Removal Active disturbance rejection control for nonlinear two-tank liquid level cascade systems with model uncertainties. , 2015, , .		2
96	Online monitoring system of alumina concentration in aluminum electrolytic cell. , 2016, , .		2
97	Dynamic Intermittent Suboptimal Control: Performance Quantification and Comparisons. , 2018, , .		2
98	Adaptive Control of Delayed Teleoperation Systems with Parameter Convergence. Mathematical Problems in Engineering, 2018, 2018, 1-7.	0.6	2
99	KANSEI-BASED IMAGE RETRIEVAL WITH BAYESIAN DECISION MODELS AND RELEVANCE FEEDBACK. KANSEI Engineering International, 2008, 7, 171-180.	0.2	2
100	Hamiltonian-Driven Adaptive Dynamic Programming Based on Extreme Learning Machine. Lecture Notes in Computer Science, 2017, , 197-205.	1.0	2
101	Adaptive Control of Stochastic System by Using Multiple Models. , 2006, , .		1
102	ART2-Based Approach to Judge the State of the Blast Furnace. , 2006, , .		1
103	Application of improved artificial immune network algorithm to optimization. , 2008, , .		1
104	Dynamic range criterion of THz spectrum for amino acids measurements. Frontiers of Optoelectronics in China, 2009, 2, 239-243.	0.2	1
105	Global convergence of variable step size LMS adaptive filtering algorithm based on variable region. , 2009, , .		1
106	A Novel Approach to Classify Imbalanced Dataset Based on Rare Attributes and Double Confidences. , 2009, , .		1
107	Towards Suspicious Behavior Discovery in Video Surveillance System. , 2009, , .		1
108	Temperature Identification of Electrical Heating Furnace Based on Elman Network Combined with Improved PSO. Applied Mechanics and Materials, 2010, 20-23, 82-87.	0.2	1

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109	Active Disturbance Rejection Control simulation toolbox in open-source software Scilab/Xcos. , 2011, , .		1
110	A 3-Dimensional display and process software for THz spectrum. Journal of Physics: Conference Series, 2011, 276, 012210.	0.3	1
111	Application research on data-based third-order linear extended state observer filter for hot strip width. , 2012, , .		1
112	Mobile Sensing and Simultaneously Node Localization in Wireless Sensor Networks for Human Motion Tracking. Applied Bionics and Biomechanics, 2012, 9, 367-374.	0.5	1
113	Modeling and simulation of gas scheduling system in iron and steel enterprises. , 2012, , .		1
114	Burden surface fitting and the design of simulation platform for the blast furnace burden distribution. , 2015, , .		1
115	Acceleration feedback control for teleoperation systems with asymmetric time-varying delays. , 2015, , .		1
116	Active disturbance rejection solution for single water tank systems with high-precision. , 2015, , .		1
117	Log Likelihood Monitoring for Multimode Process Using Variational Bayesian Mixture Factor Analysis Model. IEEE Access, 2019, 7, 89083-89092.	2.6	1
118	A Novel Prediction Algorithm for the Cross Temperature Estimation of Blast Furnace. IOP Conference Series: Materials Science and Engineering, 2019, 533, 012035.	0.3	1
119	Adaptive Task-Space Synchronization Control of SMMS Teleoperaiton Systems with Round-Robin Scheduling Protocol. , 2019, , .		1
120	Modeling of Generative Mechanism from Burden Surface to Burden Distribution Matrix. , 2019, , .		1
121	Adaptive Dynamic Surface Control of Constrained Nonlinear Systems. , 2020, , .		1
122	A Hierarchical Control System Based on Agent Technology. , 2006, , .		1
123	Burden Surface Temperature Field Estimation of the Blast Furnace. , 2019, , .		1
124	Cooperation control for SMMS teleoperation systems with the Round-Robin protocol. , 2020, , .		1
125	Data Mining on Patient Data. , 2005, , .		0
126	The Design of China Tourism E-Business Platform Based on J2EE Technology. , 2005, , .		0

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127	Pulsed Para-neural Networks (PPNN) Based on MEXORs and Counters. Lecture Notes in Computer Science, 2005, , 509-514.	1.0	0
128	Lip Movement Synthesis In Audio-Visual Speech Recognition System. , 0, , .		0
129	Implementation of Speaking SoftMan in Game. , 0, , .		0
130	Piecewise robust H ∞ filtering for fuzzy systems with time-varying uncertainty. , 2006, , .		0
131	Application of Neural Network Simple Adaptive Control in Multivariable Coupling System. , 2006, , .		0
132	Application of the Integrated Micro Acceleration Measurement System in Target Recognition. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0
133	An Improved Method of Sensor-Based Path Planning Using Instant Goals. , 2007, , .		0
134	A multi-agent local-learning algorithm under group enviroment. Journal of Electronics, 2009, 26, 229-236.	0.2	0
135	Human-humanoid robot interaction system based on spoken dialogue and vision. , 2010, , .		0
136	Optimizing and modeling of gas scheduling system in iron and steel enterprises. , 2011, , .		0
137	Non-fragile H ∞ static output feedback control for discrete-time linear systems. , 2011, , .		0
138	Design of Smith predictor for monitor finishing automatic width control system based on chaos optimization. , 2012, , .		0
139	Active disturbance rejection controller based on particle swarm optimization for hydraulic automatic position control system. , 2013, , .		0
140	Online detecting system for aluminum electrolytic anode current based on multi-resolution analysis. , 2015, , .		0
141	Design and implementation of online measuring instrument for aluminum electrolytic anode current distribution. , 2015, , .		0
142	Identification of single-anode model of aluminum electrolytic cell based on Levys method. , 2016, , .		0
143	Classification and the case matching algorithm of the blast furnace burden surface. AIP Conference Proceedings, 2017, , .	0.3	0
144	Hamiltonian-driven adaptive dynamic programming for nonlinear discrete-time dynamic systems. , 2017, , .		0

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145	A Modified Ensemble Framework Based on Extreme Learning Machines for Gas Utilization Ratio Prediction. , 2018, , .		0
146	Off-Policy Integral Reinforcement Learning for Semi-Global Constrained Output Regulation of Continuous-Time Linear Systems. , 2018, , .		0
147	Model-free semi-global output regulation for discrete-time linear systems subject to input amplitude saturation. , 2018, , .		0
148	Adaptive Control of Flexible Joint Manipulators with Parameter Convergence. , 2019, , .		0
149	Model-Free Temporal Difference Learning for Non-Zero-Sum Games. , 2019, , .		0
150	Fixed-time control for uncertain multi-robot systems with prescribed performance. , 2020, , .		0
151	Adaptive dynamic surface control of nonlinear systems with dead zone. , 2020, , .		0
152	Adaptive Dynamic Programming in the Hamiltonian-Driven Framework. Studies in Systems, Decision and Control, 2021, , 189-214.	0.8	0
153	Output Feedback Design with Dynamic Surface for Nonlinear Systems with Unmodeled Dynamics. , 2021, , .		0
154	Research on distributed data mining based on multi-agent. , 2008, , .		0
155	A Novel Analysis of Furnace Condition Based on Biclustering. , 2018, , .		0
156	Model-Free Solution to the Discrete-Time Coupled Riccati Equation Using Off-Policy Reinforcement Learning. , 2019, , .		0
157	Observer-based Adaptive Controller Design for Nonlinear Saturation Systems With Output Constraints. IFAC-PapersOnLine, 2020, 53, 675-680.	0.5	0
158	A New Approach Supporting Perception Guiding and Multi-objective Decision Making for Behavior Animation. , 2007, , 751-762.		0
159	On Exponential Stability of Adaptive Teleoperation Systems. , 2020, , .		0
160	Command Filtered Control for Time-Delay Systems with Asymmetric Full State Constraints. , 2021, , .		0