Simon X Yang

List of Publications by Year
in descending order

433 papers	8,338 citations	57681 46 h-index	87275 74 g-index
444 all docs	444 docs citations	444 times ranked	6974 citing authors

#	Article	IF	Citations
1	Enhanced Reduced-Order Extended State Observer for Motion Control of Differential Driven Mobile Robot. IEEE Transactions on Cybernetics, 2023, 53, 1299-1310.	6.2	15
2	Novel Extended State Observer Design for Uncertain Nonlinear Systems via Refined Dynamic Event-Triggered Communication Protocol. IEEE Transactions on Cybernetics, 2023, 53, 1856-1867.	6.2	8
3	Consensus Formation Tracking for Multiple AUV Systems Using Distributed Bioinspired Sliding Mode Control. IEEE Transactions on Intelligent Vehicles, 2023, 8, 1081-1092.	9.4	16
4	An Intelligent Deterministic Scheduling Method for Ultralow Latency Communication in Edge Enabled Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2023, 19, 1756-1767.	7.2	29
5	A Novel Rapid-Flooding Approach With Real-Time Delay Compensation for Wireless-Sensor Network Time Synchronization. IEEE Transactions on Cybernetics, 2022, 52, 1415-1428.	6.2	15
6	Bio-Inspired Neural Network-Based Optimal Path Planning for UUVs Under the Effect of Ocean Currents. IEEE Transactions on Intelligent Vehicles, 2022, 7, 231-239.	9.4	23
7	Information Fusion Fault Diagnosis Method for Deep-Sea Human Occupied Vehicle Thruster Based on Deep Belief Network. IEEE Transactions on Cybernetics, 2022, 52, 9414-9427.	6.2	27
8	A Novel Learning Model of Driver Fatigue Features Representation for Steering Wheel Angle. IEEE Transactions on Vehicular Technology, 2022, 71, 269-281.	3.9	38
9	Path Planning of Arbitrary Shaped Mobile Robots With Safety Consideration. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16474-16483.	4.7	5
10	An Improved Deep Network-Based Scene Classification Method for Self-Driving Cars. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	2.4	34
11	The Discharge Forecasting of Multiple Monitoring Station for Humber River by Hybrid LSTM Models. Water (Switzerland), 2022, 14, 1794.	1.2	16
12	Key Region Extraction and Body Dimension Measurement of Beef Cattle Using 3D Point Clouds. Agriculture (Switzerland), 2022, 12, 1012.	1.4	5
13	Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6639-6649.	5.9	17
14	Optimizing Survival Analysis of XGBoost for Ties to Predict Disease Progression of Breast Cancer. IEEE Transactions on Biomedical Engineering, 2021, 68, 148-160.	2.5	68
15	Consensus Affinity Graph Learning for Multiple Kernel Clustering. IEEE Transactions on Cybernetics, 2021, 51, 3273-3284.	6.2	51
16	Online Gait Planning of Lower-Limb Exoskeleton Robot for Paraplegic Rehabilitation Considering Weight Transfer Process. IEEE Transactions on Automation Science and Engineering, 2021, 18, 414-425.	3.4	21
17	A Novel Algorithm of Multi-AUVs Task Assignment and Path Planning Based on Biologically Inspired Neural Network Map. IEEE Transactions on Intelligent Vehicles, 2021, 6, 333-342.	9.4	51
18	A Secure Clustering Protocol With Fuzzy Trust Evaluation and Outlier Detection for Industrial Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2021, 17, 4837-4847.	7.2	24

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19	A novel neural network approach to modeling particles distribution on vibrating screen. Powder Technology, 2021, 382, 254-261.	2.1	7
20	Improved optical-type measurement method of grain flow using array near-infrared photoelectric sensors. Computers and Electronics in Agriculture, 2021, 183, 106075.	3.7	5
21	Path planning method for unmanned underwater vehicles eliminating effect of currents based on artificial potential field. Journal of Navigation, 2021, 74, 955-967.	1.0	12
22	Low-Cost and Unobtrusive Respiratory Condition Monitoring Based on Raspberry Pi and Recurrent Neural Network. , 2021, , .		1
23	Face Mask Assistant: Detection of Face Mask Service Stage Based on Mobile Phone. IEEE Sensors Journal, 2021, 21, 11084-11093.	2.4	38
24	An Evolutionary Game-Based Secure Clustering Protocol With Fuzzy Trust Evaluation and Outlier Detection for Wireless Sensor Networks. IEEE Sensors Journal, 2021, 21, 13935-13947.	2.4	14
25	An improved neural dynamics based approach with territorial mechanism to online path planning of multi-robot systems. International Journal of Machine Learning and Cybernetics, 2021, 12, 3561.	2.3	1
26	Respiratory Consultant by Your Side: Affordable and Remote Intelligent Respiratory Rate and Respiratory Pattern Monitoring System. IEEE Internet of Things Journal, 2021, 8, 14999-15009.	5.5	5
27	Hourly road pavement surface temperature forecasting using deep learning models. Journal of Hydrology, 2021, 603, 126877.	2.3	29
28	Modeling of the Bulk Tobacco Flue-Curing Process Using a Deep Learning-Based Method. IEEE Access, 2021, 9, 140424-140436.	2.6	4
29	Backstepping and Sliding Mode Control for AUVs Aided with Bioinspired Neurodynamics. , 2021, , .		2
30	A Grasshopper Optimization-based fault-tolerant control algorithm for a human occupied submarine with the multi-thruster system. Ocean Engineering, 2021, 242, 110101.	1.9	9
31	Navigation and Visual Feedback Control for Magnetically Driven Helical Miniature Swimmers. IEEE Transactions on Industrial Informatics, 2020, 16, 477-487.	7.2	31
32	Rapid-Flooding Time Synchronization for Large-Scale Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 1581-1590.	7.2	32
33	Fast Convergence Time Synchronization in Wireless Sensor Networks Based on Average Consensus. IEEE Transactions on Industrial Informatics, 2020, 16, 1120-1129.	7.2	45
34	Novel Maximum Likelihood Estimation of Clock Skew in One-Way Broadcast Time Synchronization. IEEE Transactions on Industrial Electronics, 2020, 67, 9948-9957.	5.2	13
35	Enhanced Bioinspired Backstepping Control for a Mobile Robot With Unscented Kalman Filter. IEEE Access, 2020, 8, 125899-125908.	2.6	15
36	A new L1-LRC based model for oranges origin identification with near infrared spectra data. Evolutionary Intelligence, 2020, , 1.	2.3	2

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37	An Improved Real-Time Path Planning Method Based on Dragonfly Algorithm for Heterogeneous Multi-Robot System. IEEE Access, 2020, 8, 140558-140568.	2.6	19
38	Collaborative use of RGB and thermal imaging for remote breathing rate measurement under realistic conditions. Infrared Physics and Technology, 2020, 111, 103504.	1.3	12
39	Noise level penalizing robust Gaussian process regression for NIR spectroscopy quantitative analysis. Chemometrics and Intelligent Laboratory Systems, 2020, 201, 104014.	1.8	10
40	An Intelligent Multi-Sensor Variable Spray System with Chaotic Optimization and Adaptive Fuzzy Control. Sensors, 2020, 20, 2954.	2.1	15
41	An Improved Potential Game Theory Based Method for Multi-UAV Cooperative Search. IEEE Access, 2020, 8, 47787-47796.	2.6	31
42	A novel foraging algorithm for swarm robotics based on virtual pheromones and neural network. Applied Soft Computing Journal, 2020, 90, 106156.	4.1	15
43	Improved Deep CNN with Parameter Initialization for Data Analysis of Near-Infrared Spectroscopy Sensors. Sensors, 2020, 20, 874.	2.1	25
44	Development of a Novel Robust Control Method for Formation of Heterogeneous Multiple Mobile Robots With Autonomous Docking Capability. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1759-1776.	3.4	14
45	Control method of seedbed compactness based on fragment soil compaction dynamic characteristics. Soil and Tillage Research, 2020, 198, 104551.	2.6	11
46	Development of Novel Motion Planning and Controls for a Series of Physically Connected Robots in Dynamic Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 291-310.	2.0	6
47	A Multi-Scale Map Method Based on Bioinspired Neural Network Algorithm for Robot Path Planning. IEEE Access, 2019, 7, 142682-142691.	2.6	13
48	Bearing Capacity Model of Corroded RC Eccentric Compression Columns Based on Hermite Interpolation and Fourier Fitting. Applied Sciences (Switzerland), 2019, 9, 24.	1.3	18
49	Multi-AUV SOM task allocation algorithm considering initial orientation and ocean current environment. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 330-341.	1.5	25
50	Intelligent Control of Bulk Tobacco Curing Schedule Using LS-SVM- and ANFIS-Based Multi-Sensor Data Fusion Approaches. Sensors, 2019, 19, 1778.	2.1	10
51	HitBoost: Survival Analysis via a Multi-Output Gradient Boosting Decision Tree Method. IEEE Access, 2019, 7, 56785-56795.	2.6	6
52	A Survey on Robot Path Planning using Bio-inspired Algorithms. , 2019, , .		15
53	Fast Convergence Average Consensus-Based Time Synchronization with Innovative Implementation. , 2019, , .		0
54	Neural-Dynamics-Based Path Planning of a Bionic Robotic Fish*. , 2019, , .		1

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55	Distributed Leader-follower Formation Control of Nonholonomic Mobile Robots. IFAC-PapersOnLine, 2019, 52, 67-72.	0.5	15
56	Predictive triggered control for networked control systems with event-triggered mechanism. Cluster Computing, 2019, 22, 10185-10195.	3.5	3
57	SOFT ACTOR-CRITIC REINFORCEMENT LEARNING FOR ROBOTIC MANIPULATOR WITH HINDSIGHT EXPERIENCE REPLAY. International Journal of Robotics and Automation, 2019, 34, .	0.1	3
58	AN IMPROVED VISION-BASED SLAM APPROACH INSPIRED FROM ANIMAL SPATIAL COGNITION. International Journal of Robotics and Automation, 2019, 34, .	0.1	0
59	Contrast Limited Adaptive Histogram Equalization-Based Fusion in YIQ and HSI Color Spaces for Underwater Image Enhancement. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1854018.	0.7	78
60	Reliability-based robust dynamic positioning for a turret-moored floating production storage and offloading vessel with unknown time-varying disturbances and input saturation. ISA Transactions, 2018, 78, 66-79.	3.1	25
61	An Optimized Fuzzy Control Algorithm for Three-Dimensional AUV Path Planning. International Journal of Fuzzy Systems, 2018, 20, 597-610.	2.3	67
62	An unequal cluster-based routing scheme for multi-level heterogeneous wireless sensor networks. Telecommunication Systems, 2018, 68, 11-26.	1.6	36
63	Design and Control of an Intelligent Wheeled Robot. , 2018, , .		3
64	Research on Landing Collision Experiment of Gecko Robot with Bio-inspired Dry Adhesive Foot. , 2018, , .		1
65	Hyperspectral Remote Sensing Image Classification Based on Maximum Overlap Pooling Convolutional Neural Network. Sensors, 2018, 18, 3587.	2.1	23
66	Monitoring Method of Total Seed Mass in a Vibrating Tray Using Artificial Neural Network. Sensors, 2018, 18, 3659.	2.1	4
67	Prediction of seed distribution in rectangular vibrating tray using grey model and artificial neuralÂnetwork. Biosystems Engineering, 2018, 175, 194-205.	1.9	10
68	Support Vector Machine Optimized by Genetic Algorithm for Data Analysis of Near-Infrared Spectroscopy Sensors. Sensors, 2018, 18, 3222.	2.1	16
69	Nonlinear Dynamic Characteristic Analysis of a Landing String in Deepwater Riserless Drilling. Shock and Vibration, 2018, 2018, 1-17.	0.3	5
70	A Bio-Inspired Control Strategy for Locomotion of a Quadruped Robot. Applied Sciences (Switzerland), 2018, 8, 56.	1.3	20
71	Bridge Structure Deformation Prediction Based on GNSS Data Using Kalman-ARIMA-GARCH Model. Sensors, 2018, 18, 298.	2.1	57
72	Study on Interference Suppression Algorithms for Electronic Noses: A Review. Sensors, 2018, 18, 1179.	2.1	36

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73	Dynamic analysis and reliability design of round baler feeding device for rice straw harvest. Biosystems Engineering, 2018, 174, 10-19.	1.9	18
74	Backstepping Tracking Control Design for a Tractor Robot Pulling Multiple Trailers. , 2018, , .		12
75	Robust Adaptive Dynamic Surface Control Based on Structural Reliability for a Turret-moored Floating Production Storage and Offloading Vessel. International Journal of Control, Automation and Systems, 2018, 16, 1648-1659.	1.6	17
76	DESIGN AND ANALYSIS OF A BIONIC ADHESIVE FOOT FOR GECKO ROBOT CLIMBING THE CEILING. International Journal of Robotics and Automation, 2018, 33, .	0.1	13
77	A NOVEL SEGMENTATION METHOD BASED ON GRAYSCALE WAVE FOR UNDERWATER IMAGES. International Journal of Robotics and Automation, 2018, 33, .	0.1	0
78	A Bio-Inspired Approach to Task Assignment of Swarm Robots in 3-D Dynamic Environments. IEEE Transactions on Cybernetics, 2017, 47, 974-983.	6.2	47
79	A Robust and Fast Method for Sidescan Sonar Image Segmentation Using Nonlocal Despeckling and Active Contour Model. IEEE Transactions on Cybernetics, 2017, 47, 855-872.	6.2	61
80	An adaptive neuro-fuzzy approach to bulk tobacco flue-curing control process. Drying Technology, 2017, 35, 465-477.	1.7	13
81	Observer-Based Adaptive Neural Network Trajectory Tracking Control for Remotely Operated Vehicle. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1633-1645.	7.2	140
82	Development of a New Robust Controller With Velocity Estimator for Docked Mobile Robots: Theory and Experiments. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1287-1298.	3.7	18
83	Sensor Array Optimization of Electronic Nose for Detection of Bacteria in Wound Infection. IEEE Transactions on Industrial Electronics, 2017, 64, 7350-7358.	5.2	72
84	Total-Amount Synchronous Control Based on Terminal Sliding-Mode Control. IEEE Access, 2017, 5, 5436-5444.	2.6	17
85	Cloud Computing for Big Data Processing. Intelligent Automation and Soft Computing, 2017, 23, 545-546.	1.6	7
86	A model predictive based UUV control design from kinematic to dynamic tracking control. , 2017, , .		3
87	A correlated information removing based interference suppression technique in electronic nose for detection of bacteria. Analytica Chimica Acta, 2017, 986, 145-152.	2.6	17
88	A flood prediction method based on streaming big data processing. , 2017, , .		3
89	Adaptive Sliding Mode Control for Depth Trajectory Tracking of Remotely Operated Vehicle with Thruster Nonlinearity. Journal of Navigation, 2017, 70, 149-164.	1.0	33
90	Neural-Dynamics-Driven Complete Area Coverage Navigation Through Cooperation of Multiple Mobile Robots. IEEE Transactions on Industrial Electronics, 2017, 64, 750-760.	5.2	82

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91	Intelligent estimate of chemical compositions based on NIR spectra analysis. , 2017, , .		1
92	Adaptive fuzzy dynamic surface controller for positioning of vessels. , 2017, , .		3
93	Adaptive backstepping control based on structural reliability for a turret-moored FPSO vessel. , 2017, , .		2
94	Multiple Two-Way Time Message Exchange (TTME) Time Synchronization for Bridge Monitoring Wireless Sensor Networks. Sensors, 2017, 17, 1027.	2.1	17
95	Introduction to the focused section on sensing and perception for autonomous and networked robotics. International Journal of Intelligent Robotics and Applications, 2017, 1, 369-371.	1.6	1
96	A Dynamic Bioinspired Neural Network Based Real-Time Path Planning Method for Autonomous Underwater Vehicles. Computational Intelligence and Neuroscience, 2017, 2017, 1-16.	1.1	165
97	VERTICAL CLIMBING LOCOMOTION OF A NEW GECKO ROBOT USING DRY ADHESIVE MATERIAL. International Journal of Robotics and Automation, 2017, 32, .	0.1	5
98	A DYNAMIC VELOCITY REGULATION APPROACH TO PLANAR TRAJECTORY TRACKING CONTROL OF UNDERACTUATED AUVs. International Journal of Robotics and Automation, 2017, 32, .	0.1	0
99	Suppression of Strong Background Interference on E-Nose Sensors in an Open Country Environment. Sensors, 2016, 16, 233.	2.1	18
100	Gait Planning and Stability Control of a Quadruped Robot. Computational Intelligence and Neuroscience, 2016, 2016, 1-13.	1.1	25
101	Bioinspired Intelligent Algorithm and Its Applications for Mobile Robot Control: A Survey. Computational Intelligence and Neuroscience, 2016, 2016, 1-16.	1.1	61
102	Theory and Applications of Bioinspired Neural Intelligence for Robotics and Control. Computational Intelligence and Neuroscience, 2016, 2016, 1-2.	1.1	3
103	A Multi-Hop Energy Neutral Clustering Algorithm for Maximizing Network Information Gathering in Energy Harvesting Wireless Sensor Networks. Sensors, 2016, 16, 26.	2.1	24
104	An Inexpensive, Stable, and Accurate Relative Humidity Measurement Method for Challenging Environments. Sensors, 2016, 16, 398.	2.1	10
105	Preservation Mechanism of Chitosan-Based Coating with Cinnamon Oil for Fruits Storage Based on Sensor Data. Sensors, 2016, 16, 1111.	2.1	36
106	Optimal design of formation tracking control for a tractor-trailer robotic system with omni-directional wheels. , 2016, , .		6
107	Preparation, properties and <i>in vivo</i> antimicrobial activity in yacon roots of microencapsulation containing cinnamon oil. Materials Technology, 2016, 31, 40-46.	1.5	7
108	A PSO-Based Approach with Fuzzy Obstacle Avoidance for Cooperative Multi-Robots in Unknown Environments. International Journal of Computational Intelligence and Applications, 2016, 15, 1650001.	0.6	13

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109	Intelligent Automation with Applications to Agriculture. Intelligent Automation and Soft Computing, 2016, 22, 227-228.	1.6	3
110	Networks based computing and automation. Intelligent Automation and Soft Computing, 2016, 22, 533-534.	1.6	1
111	Improving vehicle navigation by a heading-enabled ACO approach. , 2016, , .		0
112	An integrated type-2 fuzzy sliding mode control for underactuated surface vessels. , 2016, , .		0
113	Optimal design of consensus for autonomous underwater vehicles with damping term using a directed spanning tree. , 2016, , .		2
114	A Novel Tracking Controller for Autonomous Underwater Vehicles with Thruster Fault Accommodation. Journal of Navigation, 2016, 69, 593-612.	1.0	24
115	Real-time hybrid design of tracking control and obstacle avoidance for underactuated underwater vehicles. Journal of Intelligent and Fuzzy Systems, 2016, 30, 2541-2553.	0.8	10
116	A Ranging Model Based on BP Neural Network. Intelligent Automation and Soft Computing, 2016, 22, 325-329.	1.6	11
117	Classification of Orange Growing Locations Based on the Near-infrared Spectroscopy Using Data Mining. Intelligent Automation and Soft Computing, 2016, 22, 229-236.	1.6	8
118	An Efficient Fine-to-Coarse Wayfinding Strategy for Robot Navigation in Regionalized Environments. IEEE Transactions on Cybernetics, 2016, 46, 3157-3170.	6.2	10
119	Multi-AUV Target Search Based on Bioinspired Neurodynamics Model in 3-D Underwater Environments. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2364-2374.	7.2	117
120	ADAPTIVE TERMINAL SLIDING MODE BASED SENSORLESS SPEED CONTROL FOR UNDERWATER THRUSTER. International Journal of Robotics and Automation, 2016, 31, .	0.1	2
121	DUBINS-RRT PATH PLANNING AND HEADING-VECTOR CONTROL GUIDANCE FOR A UUV RECOVERY. International Journal of Robotics and Automation, 2016, 31, .	0.1	2
122	BIOINSPIRED NEURAL NETWORK-BASED Q-LEARNING APPROACH FOR ROBOT PATH PLANNING IN UNKNOWN ENVIRONMENTS. International Journal of Robotics and Automation, 2016, 31, .	0.1	7
123	AN INTELLIGENT AND AUTOMATIC CONTROL METHOD FOR TOBACCO FLUE-CURING BASED ON MACHINE LEARNING. International Journal of Robotics and Automation, 2016, 31, .	0.1	2
124	SLAM BASED ON INFORMATION FUSION OF STEREO VISION AND ELECTRONIC COMPASS. International Journal of Robotics and Automation, 2016, 31, .	0.1	0
125	NONLINEAR MODEL PREDICTIVE CONTROL OF DYNAMIC POSITIONING OF DEEP-SEA SHIPS WITH A UNIFIED MODEL. International Journal of Robotics and Automation, 2016, 31, .	0.1	2
126	PID TRACKING CONTROL FOR NONLINEAR STOCHASTIC MARKOV JUMP SYSTEMS WITH STATE AND INPUT DELAYS. Control and Intelligent Systems, 2016, 44, .	0.3	0

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127	A Hybrid Bioinspired Backstepping Sliding Mode Tracking Control Method for Underactuated Surface Vessels. , 2016, , .		0
128	Multi-AUV Hunting Algorithm Based on Bio-inspired Neural Network in Unknown Environments. International Journal of Advanced Robotic Systems, 2015, 12, 166.	1.3	40
129	Multi-AUV target searching under ocean current based on PPSO and velocity synthesis algorithm. Underwater Technology, 2015, 33, 31-39.	0.3	18
130	Machine Learning with Applications to Autonomous Systems. Mathematical Problems in Engineering, 2015, 2015, 1-2.	0.6	5
131	A GA-fuzzy logic based extended Kalman filter for mobile robot localization. , 2015, , .		4
132	Safety aware robot coverage motion planning with virtual-obstacle-based navigation. , 2015, , .		9
133	Control of an Underactuated Three-Link Passiveâ€"Activeâ€"Active Manipulator Based on Three Stages and Stability Analysis. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	25
134	Data-Driven Optimization Control for Safety Operation of Hematite Grinding Process. IEEE Transactions on Industrial Electronics, 2015, 62, 2930-2941.	5.2	58
135	A bioinspired neural dynamics-based approach to tracking control of autonomous surface vehicles subject to unknown ocean currents. Neural Computing and Applications, 2015, 26, 1929-1938.	3.2	15
136	Systems modeling and intelligent control of meat drying process. , 2015, , .		4
137	A comparative study for least angle regression on NIR spectra analysis to determine internal qualities of navel oranges. Expert Systems With Applications, 2015, 42, 8497-8503.	4.4	31
138	Intelligent Information Technologies in Fruit Industry. Intelligent Automation and Soft Computing, 2015, 21, 265-267.	1.6	3
139	Determination of internal qualities of Newhall navel oranges based on NIR spectroscopy using machine learning. Journal of Food Engineering, 2015, 161, 16-23.	2.7	38
140	Decoupling control and energy efficient system for meat drying processing based on fuzzy-PID approaches. , 2015, , .		0
141	Annealing-based guidance of a rescue robot for rescue mission with multi-goal navigation. , 2015, , .		0
142	Stabilization of underactuated planar acrobot based on motion-state constraints. International Journal of Non-Linear Mechanics, 2015, 77, 342-347.	1.4	52
143	Fault tolerant control and tracking application of 7000Âm manned submarine vehicle. IET Electrical Systems in Transportation, 2015, 5, 135-144.	1.5	2
144	A biologically inspired approach to tracking control of underactuated surface vessels subject to unknown dynamics. Expert Systems With Applications, 2015, 42, 2153-2161.	4.4	42

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145	Further results on robust stability of bidirectional associative memory neural networks with norm-bounded uncertainties. Neurocomputing, 2015, 148, 535-543.	3.5	13
146	A neuro-fuzzy decoupling approach for real-time drying room control in meat manufacturing. Expert Systems With Applications, 2015, 42, 1039-1049.	4.4	13
147	DYNAMIC BIOINSPIRED NEURAL NETWORK FOR MULTI-ROBOT FORMATION CONTROL IN UNKNOWN ENVIRONMENTS. International Journal of Robotics and Automation, 2015, 30, .	0.1	9
148	A PSO-based approach to cooperative foraging tasks of multi-robots in completely unknown environments. , 2014, , .		0
149	A novel fuzzy control algorithm for three-dimensional AUV path planning based on sonar model. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2913-2926.	0.8	23
150	An improved PSO-based approach with dynamic parameter tuning for cooperative target searching of multi-robots. , 2014, , .		2
151	An efficient neural network based tracking controller for autonomous underwater vehicles subject to unknown dynamics. , 2014, , .		1
152	Robust Stability Analysis of Neutral-Type Hybrid Bidirectional Associative Memory Neural Networks with Time-Varying Delays. Abstract and Applied Analysis, 2014, 2014, 1-12.	0.3	0
153	A Bioinspired Neural Model Based Extended Kalman Filter for Robot SLAM. Mathematical Problems in Engineering, 2014, 2014, 1-11.	0.6	9
154	A potential field-based PSO approach for cooperative target searching of multi-robots. , 2014, , .		3
155	A Multiagent Q-Learning-Based Optimal Allocation Approach for Urban Water Resource Management System. IEEE Transactions on Automation Science and Engineering, 2014, 11, 204-214.	3.4	44
156	An effective vector-driven biologically-motivated neural network algorithm to real-time autonomous robot navigation. , 2014, , .		10
157	A novel sensor array and classifier optimization method of electronic nose based on enhanced quantum-behaved particle swarm optimization. Sensor Review, 2014, 34, 304-311.	1.0	22
158	A Bioinspired Filtered Backstepping Tracking Control of 7000-m Manned Submarine Vehicle. IEEE Transactions on Industrial Electronics, 2014, 61, 3682-3693.	5.2	125
159	Feature extraction of wound infection data for electronic nose based on a novel weighted KPCA. Sensors and Actuators B: Chemical, 2014, 201, 555-566.	4.0	63
160	Intelligent Information Processing with Applications. Intelligent Automation and Soft Computing, 2014, 20, 467-469.	1.6	0
161	A survey on distributed compressed sensing: theory and applications. Frontiers of Computer Science, 2014, 8, 893-904.	1.6	9
162	Autonomous vehicle navigation and mapping with local minima avoidance paradigm in unknown environments. , 2014, , .		2

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163	A Quadratic Lagrange Multipliers Based Approach to Feature Extraction in Face Recognition. Intelligent Automation and Soft Computing, 2014, 20, 567-574.	1.6	0
164	Improved robust stability criteria for bidirectional associative memory neural networks under parameter uncertainties. Neural Computing and Applications, 2014, 25, 1205-1214.	3.2	4
165	A novel approach for multimodal medical image fusion. Expert Systems With Applications, 2014, 41, 7425-7435.	4.4	92
166	A novel intelligent control system for flue-curing barns based on real-time image features. Biosystems Engineering, 2014, 123, 77-90.	1.9	15
167	The Path Planning of AUV Based on D-S Information Fusion Map Building and Bio-Inspired Neural Network in Unknown Dynamic Environment. International Journal of Advanced Robotic Systems, 2014, 11, 34.	1.3	24
168	Delay-dependent robust stability criteria for stochastic neural networks of neutral-type with interval time-varying delay and linear fractional uncertainties. Mathematical Structures in Computer Science, 2014, 24, .	0.5	0
169	A BIO-INSPIRED CASCADED APPROACH FOR THREE-DIMENSIONAL TRACKING CONTROL OF UNMANNED UNDERWATER VEHICLES. International Journal of Robotics and Automation, 2014, 29, .	0.1	10
170	An efficient neural network approach to tracking control of an autonomous surface vehicle with unknown dynamics. Expert Systems With Applications, 2013, 40, 1629-1635.	4.4	103
171	A practical solution for ripe tomato recognition and localisation. Journal of Real-Time Image Processing, 2013, 8, 35-51.	2.2	17
172	A novel tracking control approach for unmanned underwater vehicles based on bio-inspired neurodynamics. Journal of Marine Science and Technology, 2013, 18, 63-74.	1.3	40
173	An improved PSO-based approach with dynamic parameter tuning for cooperative multi-robot target searching in complex unknown environments. International Journal of Control, 2013, 86, 1720-1732.	1.2	42
174	A PSO-based approach to cooperative foraging multi-robots in unknown environments. , 2013, , .		4
175	Dynamic Task Assignment and Path Planning of Multi-AUV System Based on an Improved Self-Organizing Map and Velocity Synthesis Method in Three-Dimensional Underwater Workspace. IEEE Transactions on Cybernetics, 2013, 43, 504-514.	6.2	194
176	Detection of Smell Change of Flue-Cured Tobacco Based on an Electronic Nose. Intelligent Automation and Soft Computing, 2013, 19, 195-206.	1.6	4
177	Coupling analysis and control of temperature and relative humidity in a drying room. , 2013, , .		3
178	Robust stability criteria for uncertain stochastic neural networks of neutral-type with interval time-varying delays. Neural Computing and Applications, 2013, 22, 349-359.	3.2	27
179	A combined hierarchical reinforcement learning based approach for multi-robot cooperative target searching in complex unknown environments. , 2013, , .		18
180	Efficient Shortest-Path-Tree Computation in Network Routing Based on Pulse-Coupled Neural Networks. IEEE Transactions on Cybernetics, 2013, 43, 995-1010.	6.2	26

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181	HILBERTâ€"HUANG TRANSFORM FOR FEATURE EXTRACTION OF TEMPERATURE MODULATED MOS SENSORS. International Journal of Information Acquisition, 2013, 09, 1350014.	0.2	0
182	Lag Synchronization of Coupled Delayed Chaotic Neural Networks by Periodically Intermittent Control. Abstract and Applied Analysis, 2013, 2013, 1-5.	0.3	5
183	Information Security and Processing. Intelligent Automation and Soft Computing, 2013, 19, 109-110.	1.6	0
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