

Qijun Chen

List of Publications by Year in descending order

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139
papers

2,413
citations

304743

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h-index

233421

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140
all docs

140
docs citations

140
times ranked

2175
citing authors

#	ARTICLE	IF	CITATIONS
1	Observer-Based Output Feedback Event-Triggered Control for Consensus of Multi-Agent Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 4885-4894.	7.9	466
2	Supply Chain Finance Innovation Using Blockchain. IEEE Transactions on Engineering Management, 2020, 67, 1045-1058.	3.5	186
3	Codesign of Event-Triggered and Distributed H_{∞} Filtering for Active Semi-Vehicle Suspension Systems. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1047-1058.	5.8	162
4	Event-Triggered Nonsynchronized H_{∞} Filtering for Discrete-Time T-S Fuzzy Systems Based on Piecewise Lyapunov Functions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2330-2341.	9.3	91
5	A Novel Fuzzy Observer-Based Steering Control Approach for Path Tracking in Autonomous Vehicles. IEEE Transactions on Fuzzy Systems, 2018, , 1-1.	9.8	76
6	Collision-Free Navigation of Autonomous Vehicles Using Convex Quadratic Programming-Based Model Predictive Control. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1103-1113.	5.8	73
7	Fuzzy Controller Design for Nonlinear Impulsive Fuzzy Systems With Time Delay. IEEE Transactions on Fuzzy Systems, 2011, 19, 844-856.	9.8	63
8	Central Pattern Generator Inspired Control for Adaptive Walking of Biped Robots. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1206-1215.	9.3	61
9	Sampled-data control of nonlinear networked systems with time delay and quantization. International Journal of Robust and Nonlinear Control, 2016, 26, 919-933.	3.7	61
10	Survey of locomotion control of legged robots inspired by biological concept. Science in China Series F: Information Sciences, 2009, 52, 1715-1729.	1.1	60
11	Reliable Output Feedback Control for T-S Fuzzy Systems With Decentralized Event Triggering Communication and Actuator Failures. IEEE Transactions on Cybernetics, 2017, 47, 2592-2602.	9.5	59
12	An Optimized Consortium Blockchain for Medical Information Sharing. IEEE Transactions on Engineering Management, 2021, 68, 1677-1689.	3.5	57
13	Robust H_{∞} Filtering for Switched Stochastic System With Missing Measurements. IEEE Transactions on Signal Processing, 2009, 57, 3466-3474.	5.3	54
14	Distributed average filtering for sensor networks with sensor saturation. IET Control Theory and Applications, 2013, 7, 887-893.	2.1	48
15	Consensus of multi-agent systems with linear dynamics using event-triggered control. IET Control Theory and Applications, 2014, 8, 2275-2281.	2.1	47
16	Architecture Design and Implementation of an Autonomous Vehicle. IEEE Access, 2018, 6, 21956-21970.	4.2	42
17	Lithium-ion battery temperature on-line estimation based on fast impedance calculation. Journal of Energy Storage, 2019, 26, 100952.	8.1	39
18	A Novel System for Measuring Alternating Current Impedance Spectra of Series-Connected Lithium-Ion Batteries With a High-Power Dual Active Bridge Converter and Distributed Sampling Units. IEEE Transactions on Industrial Electronics, 2021, 68, 7380-7390.	7.9	38

#	ARTICLE	IF	CITATIONS
19	A New Design of Membership-Function-Dependent Controller for T-S Fuzzy Systems Under Imperfect Premise Matching. IEEE Transactions on Fuzzy Systems, 2019, 27, 1428-1440.	9.8	30
20	MBFT: A New Consensus Algorithm for Consortium Blockchain. IEEE Access, 2020, 8, 87665-87675.	4.2	30
21	Multi-Layered CPG for Adaptive Walking of Quadruped Robots. Journal of Bionic Engineering, 2018, 15, 341-355.	5.0	26
22	Fuzzy-Model-Based Output Feedback Steering Control in Autonomous Driving Subject to Actuator Constraints. IEEE Transactions on Fuzzy Systems, 2021, 29, 457-470.	9.8	25
23	CPG driven locomotion control of quadruped robot. , 2009, , .		23
24	Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2992-3003.	9.3	23
25	Prediction of building lighting energy consumption based on support vector regression. , 2013, , .		21
26	Adaptive walking control of biped robots using online trajectory generation method based on neural oscillators. Journal of Bionic Engineering, 2016, 13, 572-584.	5.0	21
27	Monocular Visual Odometry Scale Recovery Using Geometrical Constraint. , 2018, , .		21
28	Efficient frontier detection and management for robot exploration. , 2013, , .		20
29	Sampling-Based Optimal Motion Planning With Smart Exploration and Exploitation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2376-2386.	5.8	19
30	Simultaneous Stabilization and Tracking of Nonholonomic WMRs With Input Constraints: Controller Design and Experimental Validation. IEEE Transactions on Industrial Electronics, 2019, 66, 5343-5352.	7.9	18
31	Dynamic walking control of humanoid robots combining linear inverted pendulum mode with parameter optimization. International Journal of Advanced Robotic Systems, 2018, 15, 172988141774967.	2.1	17
32	Unsupervised Anomaly Segmentation Via Multilevel Image Reconstruction and Adaptive Attention-Level Transition. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	17
33	Robust \hat{x} filtering for vehicle sideslip angle estimation with sampled-data measurements. Transactions of the Institute of Measurement and Control, 2017, 39, 1059-1070.	1.7	15
34	Time series forecasting method of building energy consumption using support vector regression. , 2015, , .		14
35	A Robust Method for Detecting Parking Areas in Both Indoor and Outdoor Environments. Sensors, 2018, 18, 1903.	3.8	13
36	A Novel Depth and Color Feature Fusion Framework for 6D Object Pose Estimation. IEEE Transactions on Multimedia, 2021, 23, 1630-1639.	7.2	13

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37	Learning nonlinear dynamical system for movement primitives. , 2014, , .		12
38	A Blockchain-based Random Number Generation Algorithm and the Application in Blockchain Games. , 2019, , .		12
39	Active Balance Control of Humanoid Locomotion Based on Foot Position Compensation. Journal of Bionic Engineering, 2020, 17, 134-147.	5.0	12
40	Robust adaptive trajectory tracking independent of models for robotic manipulators. Journal of Field Robotics, 2001, 18, 545-551.	0.7	11
41	Robust Control of Semi-passive Biped Dynamic Locomotion based on a Discrete Control Lyapunov Function. Robotica, 2020, 38, 1345-1358.	1.9	11
42	Object semantic map representation for indoor mobile robots. , 2011, , .		10
43	Coupled Van Der Pol oscillators utilised as Central pattern generators for quadruped locomotion. , 2009, , .		9
44	Adaptive walking control of quadruped robots based on central pattern generator (CPG) and reflex. Journal of Control Theory and Applications, 2013, 11, 386-392.	0.8	9
45	Adaptive tracking control for wheeled mobile robots with unknown skidding. , 2015, , .		9
46	Deep metric learning autoencoder for nonlinear temporal alignment of human motion. , 2016, , .		9
47	Improving Learning-based Ego-motion Estimation with Homomorphism-based Losses and Drift Correction. , 2019, , .		9
48	Rhythmic-Reflex Hybrid Adaptive Walking Control of Biped Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 94, 603-619.	3.4	9
49	The Research and Application of LS_SVM Based on Particle Swarm Optimization. , 2007, , .		8
50	A graph-based plane segmentation approach for noisy point clouds. , 2013, , .		8
51	Trajectory Generation With Spatio-Temporal Templates Learned From Demonstrations. IEEE Transactions on Industrial Electronics, 2017, 64, 3442-3451.	7.9	8
52	Distributed regular polygon formation control and obstacle avoidance for non-holonomic wheeled mobile robots with directed communication topology. IET Control Theory and Applications, 2020, 14, 1113-1122.	2.1	8
53	A novel dual <sc>time scale</sc> life prediction method for lithium-ion batteries considering effects of temperature and state of charge. International Journal of Energy Research, 2021, 45, 14692-14709.	4.5	8
54	Semi-Supervised 6D Object Pose Estimation Without Using Real Annotations. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 5163-5174.	8.3	8

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55	Research on and pure Java realization of a Web-based mobile robot system. , 0, , .		7
56	Obstacle avoidance of autonomous vehicles with CQP-based model predictive control. , 2016, , .		7
57	Humanoid adaptive locomotion control through a bioinspired CPG-based controller. Robotica, 2022, 40, 762-779.	1.9	7
58	RoboSeg: Real-Time Semantic Segmentation on Computationally Constrained Robots. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1567-1577.	9.3	7
59	Walking control strategy for biped robots based on central pattern generator. , 2012, , .		6
60	Traffic Light Detection Based on Multi-feature Segmentation and Online Selecting Scheme. , 2014, , .		6
61	Active balance of humanoids with foot positioning compensation and non-parametric adaptation. Robotics and Autonomous Systems, 2016, 75, 297-309.	5.1	6
62	Investigation on Cell Performance and Inconsistency Evolution of Series and Parallel Lithium-ion Battery Modules. Energy Technology, 2021, 9, 2100072.	3.8	6
63	Learning based gaits evolution for an AIBO dog. , 2007, , .		5
64	Defects detecting of gloves based on machine vision. , 2016, , .		5
65	Vehicle model based visual-tag monocular ORB-SLAM. , 2017, , .		5
66	A graph based formation control of nonholonomic wheeled robots using a novel edge-weight function. , 2017, , .		5
67	Workspace Trajectory Generation Method for Humanoid Adaptive Walking With Dynamic Motion Primitives. IEEE Access, 2020, 8, 54652-54662.	4.2	5
68	Dual-Laser Goniometer: A Flexible Optical Angular Sensor for Joint Angle Measurement. IEEE Transactions on Industrial Electronics, 2021, 68, 6328-6338.	7.9	5
69	Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2332-2341.	9.3	5
70	Modeling of Multirate Input and Output Networked Control System. , 2009, , .		4
71	A Vestibular System Model for Robots and Its Application in Environment Perception. , 2010, , .		4
72	Rebalance strategies for humanoids walking by foot positioning compensator based on adaptive heteroscedastic SpGPs. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
73	Robust H_{∞} Filtering for Discrete-Time Markovian Jump Linear Systems. Asian Journal of Control, 2012, 14, 1599-1607.	3.0	4
74	A trajectory generation method for biped walking based on neural oscillators. , 2016, , .		4
75	Fuzzy-model-based H_{∞} dynamic output feedback control with feedforward for autonomous vehicle path tracking. , 2017, , .		4
76	Impulsive control and stability analysis of biped robot based on virtual constraint and adaptive optimization. Advanced Control for Applications, 2020, 2, e32.	1.7	4
77	Singular Configuration Analysis and Singularity Avoidance with Application in an Intelligent Robotic Manipulator. Sensors, 2022, 22, 1239.	3.8	4
78	HoloSeg: An Efficient Holographic Segmentation Network for Real-time Scene Parsing. , 2022, , .		4
79	Vision-based fast objects recognition and distances calculation of robots. , 2005, , .		3
80	Locomotion control of quadruped robots based on central pattern generators. , 2011, , .		3
81	Characteristic equations and gravity effects on virtual passive bipedal walking. , 2014, , .		3
82	A wireless automatic meter reading system based on digital image process and ZigBee-3G. , 2014, , .		3
83	The realization of cyclic serial port communication based on LabVIEW. , 2014, , .		3
84	Active balance of humanoid movement based on dynamic task-prior system. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771079.	2.1	3
85	Effects of back pressure fluctuation on pseudo-shock waves in a rectangular duct. Journal of Mechanical Science and Technology, 2020, 34, 4649-4655.	1.5	3
86	LiTiO ₂ coating toward enhanced nickel-rich LiNi _{0.815} Co _{0.15} Al _{0.035} O ₂ cathode in lithium-ion batteries. Ionics, 2021, 27, 961-971.	2.4	3
87	Weak Diagnosability of Discrete Event Systems. IFAC-PapersOnLine, 2020, 53, 338-343.	0.9	3
88	Locomotion control of quadruped robots based on CPG-inspired workspace trajectory generation. , 2011, , .		2
89	The research of dynamic statistics chart based on MVC design pattern. , 2014, , .		2
90	Evaluation of color space for segmentation in robot soccer. , 2014, , .		2

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91	Joint estimation of states and parameters of vehicle model using cubature Kalman filter. , 2016, , .		2
92	Force Simulation Analysis of Underground Quadrotor UAV Based on Virtual Laboratory Technology. , 2021, , .		2
93	Geometry-Constrained Scale Estimation for Monocular Visual Odometry. IEEE Transactions on Multimedia, 2022, 24, 3144-3156.	7.2	2
94	Navigation in Multi-Agent System With Side Preference Path Optimizer. IEEE Access, 2021, 9, 113944-113953.	4.2	2
95	Weak Diagnosability of Discrete-Event Systems. IEEE Transactions on Control of Network Systems, 2022, 9, 184-196.	3.7	2
96	A Novel Two-Stage Fault-Detection Method Based on Constrained RVM and Integrating LDA With Minimax Probability Machine. IEEE Transactions on Industrial Informatics, 2023, 19, 3198-3207.	11.3	2
97	Channel attention and multi-scale graph neural networks for skeleton-based action recognition. AI Communications, 2022, 35, 187-205.	1.2	2
98	Global stability analysis for some trajectory-tracking control schemes of robotic manipulators. , 2000, , .		1
99	An improved distance measurement method for four-legged robots based on the colour region. , 2008, , .		1
100	The research of parameters automatic selection reduction Tikhonov regularized SVM. , 2008, , .		1
101	Modeling and optimal control of automated trolleys. , 2009, , .		1
102	Towards a non-probabilistic approach to hybrid geometry-topological SLAM. , 2010, , .		1
103	Zenithal people counting using histogram of oriented gradients. , 2012, , .		1
104	Prediction of multiple failures for a mobile robot steering system. , 2012, , .		1
105	Design and implementation of real-time building energy visualization platform based on mixed model of B/S and C/S. , 2014, , .		1
106	Evolution of neural oscillator network for the biped walking control of a four-link robot. , 2015, , .		1
107	Simultaneous tracking and stabilization control for differential-drive mobile robots with diamond-shaped input constraints. , 2016, , .		1
108	Obstacle detection model implementation based on information fusion of ultrasonic and vision. , 2016, , .		1

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109	Self-balanced motion planning for humanoid robot based on dynamic multitasking mechanism. , 2016, , .		1
110	Efficient and robust approaches for three-dimensional sound source recognition and localization using humanoid robots sensor arrays. International Journal of Advanced Robotic Systems, 2020, 17, 172988142094135.	2.1	1
111	Real-Time Lightweight CNN in Robots with Very Limited Computational Resources: Detecting Ball in NAO. Lecture Notes in Computer Science, 2019, , 24-34.	1.3	1
112	Vibration Characteristics of Plate Structure Based on Simulation System. , 2020, , .		1
113	Robust adaptive trajectory tracking independent of models for robotic manipulators. , 2001, , .		0
114	MVC mode-based mobile telerobotic system and its java implementation. , 0, , .		0
115	Stochastic Routing In Large Scale Sensor Networks. , 0, , .		0
116	A robust L2 - L ∞ filter design for uncertain networked control systems. , 2008, , .		0
117	DECENTRALIZED ROBUST CONTROL WITH GUARANTEED COST FOR HYBRID COMPLEX NETWORKS. International Journal of Information Acquisition, 2008, 05, 283-289.	0.2	0
118	H ∞ Filtering for a class of mode-independent switch networks. , 2009, , .		0
119	Optimal control for a class of hybrid systems in manufacturing. , 2009, , .		0
120	Adaptive Output Feedback Control of Nonholonomic Systems with Strong Nonlinear Drifts. , 2009, , .		0
121	Adaptive output feedback control of uncertain nonholonomic systems with strong nonlinear drifts. , 2009, , .		0
122	Adaptive neural network control of nonholonomic systems with unknown virtual control coefficients. , 2009, , .		0
123	Delay-dependent L ∞ -L ∞ filtering for stochastic networked control system with missing measurements. , 2010, , .		0
124	A robust H ∞ filter design for networked control system with limited information. , 2010, , .		0
125	Quantized H ∞ control for networked control systems with random communication delays. , 2010, , .		0
126	Quantized robust H-two filtering for Markovian jump linear systems over networks with nonaccessible mode information. Journal of Control Theory and Applications, 2011, 9, 505-512.	0.8	0

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127	A novel parameter estimation algorithm based on RANSAC for precise omnidirectional image unwrapping. , 2011, , .		0
128	Interval analysis using least squares support vector fuzzy regression. Journal of Control Theory and Applications, 2012, 10, 458-464.	0.8	0
129	Optimal Distributed Controller Design for Nonlinear Coupled Dynamical Networks. Mathematical Problems in Engineering, 2014, 2014, 1-7.	1.1	0
130	The data organization of building energy consumption monitoring system based on data classification and tree structure. , 2014, , .		0
131	Design and implementation of energy data collection system using wireless fidelity (WiFi) module and current transformer. , 2014, , .		0
132	Design and implementation of dynamic characteristics tracking system of maglev train based on real-time target and communication interface. , 2015, , .		0
133	Learning Spatio-Temporal Feature Templates from Demonstrations for Optimization Based Trajectory Generation. , 2015, , .		0
134	Adaptive control of unicycle-type mobile robots with longitudinal slippage. , 2016, , .		0
135	A real-time robust calibration-free color segmentation method for soccer robots. , 2017, , .		0
136	Research on VSLAM of UAV in Coal Mine Based on ROS. , 2021, , .		0
137	Disturbance rejection based on momentum compensation for humanoid robots. , 2017, , .		0
138	Online Learning Upper Body Posture Control for Humanoid Walking Based on BPNN. , 2020, , .		0
139	Research on Vibration Characteristics of Parametric Shell Structure. , 2021, , .		0