

Fuchun Sun

List of Publications by Year in descending order

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95
papers

4,426
citations

134610

34
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100
docs citations

100
times ranked

3712
citing authors

#	ARTICLE	IF	CITATIONS
1	The System Design and Robotic Manipulation Skills of Dualarm Autonomous Mobile Robot for Bomb Removing. <i>Journal of Physics: Conference Series</i> , 2022, 2188, 012006.	0.3	2
2	A review on sensory perception for dexterous robotic manipulation. <i>International Journal of Advanced Robotic Systems</i> , 2022, 19, 172988062210959.	1.3	18
3	Multimodal Continual Learning Using Online Dictionary Updating. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021, 13, 171-178.	2.6	0
4	An Interactive Perception Method for Warehouse Automation in Smart Cities. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 830-838.	7.2	16
5	Wearable sensing devices for upper limbs: A systematic review. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 117-130.	1.0	19
6	An Accurate Positioning Method for Robotic Manipulation Based on Vision and Tactile Sensors. <i>Communications in Computer and Information Science</i> , 2021, , 621-631.	0.4	0
7	A novel accurate positioning method for object pose estimation in robotic manipulation based on vision and tactile sensors. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 2999-3010.	1.5	7
8	Audiovisual cross-modal material surface retrieval. <i>Neural Computing and Applications</i> , 2020, 32, 14301-14309.	3.2	3
9	FoveaBox: Beyond Anchor-Based Object Detection. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 7389-7398.	6.0	572
10	A Survey of the Development of Wearable Devices. , 2020, , .		6
11	A Mobile Robot Hand-Arm Teleoperation System by Vision and IMU. , 2020, , .		32
12	Local receptive field based extreme learning machine with three channels for histopathological image classification. <i>International Journal of Machine Learning and Cybernetics</i> , 2019, 10, 1437-1447.	2.3	8
13	Survey of imitation learning for robotic manipulation. <i>International Journal of Intelligent Robotics and Applications</i> , 2019, 3, 362-369.	1.6	71
14	Feature Pyramid Reconfiguration With Consistent Loss for Object Detection. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 5041-5051.	6.0	31
15	A Tendon-Driven Robotic Dexterous Hand Design for Grasping. <i>Communications in Computer and Information Science</i> , 2019, , 432-444.	0.4	0
16	A glove-based system for object recognition via visual-tactile fusion. <i>Science China Information Sciences</i> , 2019, 62, 1.	2.7	11
17	Learning to Grasp Familiar Objects Based on Experience and Objects's Shape Affordance. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 2710-2723.	5.9	20
18	Dynamic Gesture Recognition Using Inertial Sensors-based Data Gloves. , 2019, , .		17

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19	Active Object Detection With Multistep Action Prediction Using Deep Q-Network. IEEE Transactions on Industrial Informatics, 2019, 15, 3723-3731.	7.2	52
20	Haptic recognition using hierarchical extreme learning machine with local-receptive-field. International Journal of Machine Learning and Cybernetics, 2019, 10, 541-547.	2.3	6
21	Barrier Lyapunov Function Based Learning Control of Hypersonic Flight Vehicle With AOA Constraint and Actuator Faults. IEEE Transactions on Cybernetics, 2019, 49, 1047-1057.	6.2	164
22	Active Visual-Tactile Cross-Modal Matching. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 176-187.	2.6	14
23	Deep Point-Wise Prediction for Action Temporal Proposal. Lecture Notes in Computer Science, 2019, , 475-487.	1.0	5
24	Lifelong learning for tactile emotion recognition. Interaction Studies, 2019, 20, 25-41.	0.4	2
25	Multimodal Measurements Fusion for Surface Material Categorization. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 246-256.	2.4	45
26	Multi-modal local receptive field extreme learning machine for object recognition. Neurocomputing, 2018, 277, 4-11.	3.5	31
27	Weakly paired multimodal fusion using multilayer extreme learning machine. Soft Computing, 2018, 22, 3533-3544.	2.1	10
28	Online Recorded Data-Based Composite Neural Control of Strict-Feedback Systems With Application to Hypersonic Flight Dynamics. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3839-3849.	7.2	89
29	Robotic Tactile Perception and Understanding. , 2018, , .		4
30	Composite Intelligent Learning Control of Strict-Feedback Systems With Disturbance. IEEE Transactions on Cybernetics, 2018, 48, 730-741.	6.2	147
31	Weakly Paired Multimodal Fusion for Object Recognition. IEEE Transactions on Automation Science and Engineering, 2018, 15, 784-795.	3.4	57
32	3D human gesture capturing and recognition by the IMMU-based data glove. Neurocomputing, 2018, 277, 198-207.	3.5	87
33	End-to-End ConvNet for Tactile Recognition Using Residual Orthogonal Tiling and Pyramid Convolution Ensemble. Cognitive Computation, 2018, 10, 718-736.	3.6	9
34	Tactile Object Recognition Using Joint Sparse Coding. , 2018, , 47-69.		0
35	Disturbance Observer Based Composite Learning Fuzzy Control of Nonlinear Systems with Unknown Dead Zone. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1854-1862.	5.9	150
36	Robotic grasping recognition using multi-modal deep extreme learning machine. Multidimensional Systems and Signal Processing, 2017, 28, 817-833.	1.7	28

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37	Structured Output-Associated Dictionary Learning for Haptic Understanding. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1564-1574.	5.9	45
38	A framework for the fusion of visual and tactile modalities for improving robot perception. Science China Information Sciences, 2017, 60, 1.	2.7	10
39	Neural-network-based sliding-mode control for multiple rigid-body attitude tracking with inertial information completely unknown. Information Sciences, 2017, 400-401, 91-104.	4.0	30
40	Robotic teleoperation systems using a wearable multimodal fusion device. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771705.	1.3	27
41	Recent progress on tactile object recognition. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771705.	1.3	46
42	Development of a Wearable Device for Motion Capturing Based on Magnetic and Inertial Measurement Units. Scientific Programming, 2017, 2017, 1-11.	0.5	19
43	Object Classification and Grasp Planning Using Visual and Tactile Sensing. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 969-979.	5.9	57
44	Object Recognition Using Tactile Measurements: Kernel Sparse Coding Methods. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 656-665.	2.4	166
45	Low-frequency robust control for singularly perturbed system. IET Control Theory and Applications, 2015, 9, 203-210.	1.2	10
46	Data Fusion-based resilient control system under DoS attacks: A game theoretic approach. International Journal of Control, Automation and Systems, 2015, 13, 513-520.	1.6	31
47	A system of robotic grasping with experience acquisition. Science China Information Sciences, 2014, 57, 1-11.	2.7	5
48	Neural robust adaptive hypersonic flight control without back-stepping. , 2014, , .		0
49	Linear dynamic system method for tactile object classification. Science China Information Sciences, 2014, 57, 1-11.	2.7	10
50	Robust control for Markovian jump delta operator systems with actuator saturation. European Journal of Control, 2014, 20, 207-215.	1.6	32
51	A survivable routing protocol for two-layered LEO/MEO satellite networks. Wireless Networks, 2014, 20, 871-887.	2.0	27
52	Dynamic Surface Control of Constrained Hypersonic Flight Models with Parameter Estimation and Actuator Compensation. Asian Journal of Control, 2014, 16, 162-174.	1.9	219
53	Sparse fuzzy c-regression models with application to T-S fuzzy systems identification. , 2014, , .		0
54	Learning and Understanding System Stability Using Illustrative Dynamic Texture Examples. IEEE Transactions on Education, 2014, 57, 4-11.	2.0	12

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55	Discrete-time hypersonic flight control based on extreme learning machine. <i>Neurocomputing</i> , 2014, 128, 232-241.	3.5	47
56	Composite Neural Dynamic Surface Control of a Class of Uncertain Nonlinear Systems in Strict-Feedback Form. <i>IEEE Transactions on Cybernetics</i> , 2014, 44, 2626-2634.	6.2	379
57	Modeling and controller design for complex flexible nonlinear systems via a fuzzy singularly perturbed approach. <i>Information Sciences</i> , 2014, 255, 187-203.	4.0	8
58	Dynamic Surface Control of Hypersonic Aircraft with Parameter Estimation. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 667-677.	0.5	1
59	New results on static output feedback H_∞ control for fuzzy singularly perturbed systems: a linear matrix inequality approach. <i>International Journal of Robust and Nonlinear Control</i> , 2013, 23, 681-694.	2.1	36
60	Routing for predictable Multi-Layered Satellite Networks. <i>Science China Information Sciences</i> , 2013, 56, 1-18.	2.7	5
61	Direct neural control of hypersonic flight vehicles with prediction model in discrete time. <i>Neurocomputing</i> , 2013, 115, 39-48.	3.5	35
62	Hierarchical Structured Sparse Representation for T^S Fuzzy Systems Identification. <i>IEEE Transactions on Fuzzy Systems</i> , 2013, 21, 1032-1043.	6.5	96
63	Virtual Topology for LEO Satellite Networks Based on Earth-Fixed Footprint Mode. <i>IEEE Communications Letters</i> , 2013, 17, 357-360.	2.5	69
64	Decentralized multi-objective robust control of interconnected fuzzy singular perturbed model with multiple perturbation parameters. , 2012, , .		3
65	Direct neural discrete control of hypersonic flight vehicle. <i>Nonlinear Dynamics</i> , 2012, 70, 269-278.	2.7	96
66	Dexterous robotic hand grasp modeling using piecewise linear dynamic model. , 2012, , .		6
67	Robust control for fuzzy singular perturbed unified model. , 2012, , .		0
68	A new result on state feedback robust stabilization for discrete-time fuzzy singularly perturbed systems. <i>Asian Journal of Control</i> , 2012, 14, 784-794.	1.9	12
69	Fusion tracking in color and infrared images using joint sparse representation. <i>Science China Information Sciences</i> , 2012, 55, 590-599.	2.7	79
70	Adaptive discrete-time controller design with neural network for hypersonic flight vehicle via back-stepping. <i>International Journal of Control</i> , 2011, 84, 1543-1552.	1.2	144
71	Mixed H_2/H_∞ control using a fuzzy singularly perturbed model with multiple perturbation parameters for gust load alleviation. <i>Tsinghua Science and Technology</i> , 2011, 16, 344-351.	4.1	7
72	Multi-objective robust control based on fuzzy singularly perturbed models for hypersonic vehicles. <i>Science China Information Sciences</i> , 2011, 54, 563-576.	2.7	17

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73	Neural network-based robust control for hypersonic flight vehicle with uncertainty modelling. International Journal of Modelling, Identification and Control, 2010, 11, 87.	0.2	14
74	A sustainable heuristic QoS routing algorithm for pervasive multi-layered satellite wireless networks. Wireless Networks, 2010, 16, 1657-1673.	2.0	77
75	A DUAL-MODEL JUMPING FUZZY SYSTEM APPROACH TO NETWORKED CONTROL SYSTEMS DESIGN. International Journal of Neural Systems, 2010, 20, 51-62.	3.2	9
76	Visual Tracking Using Sparsity Induced Similarity. , 2010, , .		20
77	Spacecraft coordination control in 6DOF based on Neural Network. , 2010, , .		0
78	Fuzzy static output feedback H infinity control for nonlinear systems with time-varying delay: An LMI approach. , 2010, , .		3
79	Attitude synchronization of spacecraft formation using neural network. , 2010, , .		0
80	Neural Network Control of Spacecraft Formation Using RISE Feedback. Lecture Notes in Electrical Engineering, 2010, , 521-528.	0.3	2
81	Vehicle tracking based on co-learning particle filter. , 2009, , .		4
82	Design of H_∞ filter for Markov jumping linear systems with non-accessible mode information. Automatica, 2008, 44, 2655-2660.	3.0	124
83	A Discrete-time Jump Fuzzy System Approach to NCS Design. , 2008, , 233-259.		0
84	Neuro-Fuzzy Dynamic-Inversion-Based Adaptive Control for Robotic Manipulators—Discrete Time Case. IEEE Industrial Electronics Magazine, 2007, 54, 1342-1351.	2.3	72
85	Robust Control for Singularly Perturbed Markov Jumping Linear Systems. , 2007, , .		0
86	A novel QoS routing protocol for LEO and MEO satellite networks. International Journal of Satellite Communications and Networking, 2007, 25, 603-617.	1.2	36
87	Controller design for Markov jumping systems subject to actuator saturation. Automatica, 2006, 42, 459-465.	3.0	133
88	Robust control of uncertain discrete-time Markovian jump systems with actuator saturation. International Journal of Control, 2006, 79, 805-812.	1.2	59
89	control for fuzzy singularly perturbed systems. Fuzzy Sets and Systems, 2005, 155, 272-291.	1.6	64
90	Neuro-fuzzy system modeling based on automatic fuzzy clustering. Journal of Control Theory and Applications, 2005, 3, 121-130.	0.8	1

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91	Stability analysis and synthesis of fuzzy singularly perturbed systems. IEEE Transactions on Fuzzy Systems, 2005, 13, 273-284.	6.5	91
92	Neuro-fuzzy adaptive control based on dynamic inversion for robotic manipulators. Fuzzy Sets and Systems, 2003, 134, 117-133.	1.6	31
93	Neural network-based adaptive controller design of robotic manipulators with an observer. IEEE Transactions on Neural Networks, 2001, 12, 54-67.	4.8	89
94	A neural network tracking controller for robot manipulators with unknown dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 719-724.	0.4	0
95	Stable neural-network-based adaptive control for sampled-data nonlinear systems. IEEE Transactions on Neural Networks, 1998, 9, 956-968.	4.8	77