

# Fuchun Sun

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

241  
papers

4,185  
citations

31  
h-index

58  
g-index

306  
ext. papers

5,426  
ext. citations

3.7  
avg, IF

6.08  
L-index

#	Paper	IF	Citations
241	Multi-Agent Embodied Visual Semantic Navigation With Scene Prior Knowledge. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 3154-3161	4.2	1
240	REVE-CE: Remote Embodied Visual Referring Expression in Continuous Environment. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 1494-1501	4.2	0
239	Multifingered Grasping Based on Multimodal Reinforcement Learning. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 7, 1174-1181	4.2	3
238	Robust Stability Analysis and Feedback Control for Uncertain Systems With Time-Delay and External Disturbance. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2022</b> , 1-1	8.3	
237	Motion Planning and Cooperative Manipulation for Mobile Robots With Dual Arms. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2022</b> , 1-12	4.1	1
236	Improving Object Grasp Performance via Transformer-Based Sparse Shape Completion. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2022</b> , 104, 1	2.9	0
235	Tactile-based Fabric Defect Detection Using Convolutional Neural Network with Attention Mechanism. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	4
234	A review on sensory perception for dexterous robotic manipulation. <i>International Journal of Advanced Robotic Systems</i> , <b>2022</b> , 19, 172988062210959	1.4	2
233	Predictor-Based Fuzzy Adaptive Containment Control for Nonlinear Multi-Agent Systems with Actuator Nonlinearity and Unmeasurable States. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	2
232	Fabric defect detection using tactile information <b>2021</b> ,		2
231	Multi-modal broad learning for material recognition. <i>Cognitive Computation and Systems</i> , <b>2021</b> , 3, 123-130		0
230	Semantic visual SLAM in dynamic environment. <i>Autonomous Robots</i> , <b>2021</b> , 45, 493	3	5
229	Cough Recognition Based on Mel-Spectrogram and Convolutional Neural Network. <i>Frontiers in Robotics and AI</i> , <b>2021</b> , 8, 580080	2.8	6
228	Multimode Grasping Soft Gripper Achieved by Layer Jamming Structure and Tendon-Driven Mechanism. <i>Soft Robotics</i> , <b>2021</b> ,	9.2	4
227	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> , <b>2021</b> , 116, 2999-3010	3.2	2
226	Soft Robotic Finger Embedded with Visual Sensor for Bending Perception. <i>Robotica</i> , <b>2021</b> , 39, 378-390	2.1	3
225	Toward Image-to-Tactile Cross-Modal Perception for Visually Impaired People. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 521-529	4.9	2

224	Active Object Discovery and Localization Using Sound-Induced Attention. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 2021-2029	11.9	0
223	An Interactive Perception Method for Warehouse Automation in Smart Cities. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 830-838	11.9	5
222	Personal-specific gait recognition based on latent orthogonal feature space. <i>Cognitive Computation and Systems</i> , <b>2021</b> , 3, 61-69	1.2	1
221	Smart Bracelet System for Temperature Monitoring and Movement Tracking Analysis. <i>Journal of Healthcare Engineering</i> , <b>2021</b> , 2021, 8347261	3.7	3
220	Robust H <sub>∞</sub> output feedback control for type-2 Takagi-Sugeno fuzzy systems with multiple time-delays and disturbances: A descriptor redundancy approach. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 6095-6122	3.6	2
219	Cross-Individual Gesture Recognition Based on Long Short-Term Memory Networks. <i>Scientific Programming</i> , <b>2021</b> , 2021, 1-11	1.4	1
218	Visual Affordance Guided Tactile Material Recognition for Waste Recycling. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-9	4.9	0
217	A petal-array capacitive tactile sensor with micro-pin for robotic fingertip sensing <b>2020</b> ,		1
216	H-infinity stability analysis and output feedback control for fuzzy stochastic networked control systems with time-varying communication delays and multipath packet dropouts. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 14733-14751	4.8	3
215	Multi-agent Embodied Question Answering in Interactive Environments. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 663-678	0.9	2
214	A Mobile Robot Hand-Arm Teleoperation System by Vision and IMU <b>2020</b> ,		11
213	A Boundary Based Out-of-Distribution Classifier for Generalized Zero-Shot Learning. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 572-588	0.9	2
212	Layer jamming-based soft robotic hand with variable stiffness for compliant and effective grasping. <i>Cognitive Computation and Systems</i> , <b>2020</b> , 2, 44-49	1.2	7
211	Cross-Modal Material Perception for Novel Objects: A Deep Adversarial Learning Method. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2020</b> , 17, 697-707	4.9	6
210	FoveaBox: Beyond Anchor-Based Object Detection. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 7389-7398	8.7	234
209	Single Satellite Optical Imagery Dehazing using SAR Image Prior Based on conditional Generative Adversarial Networks <b>2020</b> ,		9
208	Gait Neural Network for Human-Exoskeleton Interaction. <i>Frontiers in Neurorobotics</i> , <b>2020</b> , 14, 58	3.4	11
207	Edge Computing-Based Collaborative Vehicles 3D Mapping in Real Time. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 12470-12481	6.8	2

206	Embodied tactile perception and learning. <i>Brain Science Advances</i> , <b>2020</b> , 6, 132-158	2	4
205	Cross-modal learning for material perception using deep extreme learning machine. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2020</b> , 11, 813-823	3.8	1
204	Audiovisual cross-modal material surface retrieval. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 14301-14309	14.8	0
203	PointNetGPD: Detecting Grasp Configurations from Point Sets <b>2019</b> ,		66
202	Lifelong Learning for Heterogeneous Multi-Modal Tasks <b>2019</b> ,		5
201	Sound-Indicated Visual Object Detection for Robotic Exploration <b>2019</b> ,		2
200	Survey of imitation learning for robotic manipulation. <i>International Journal of Intelligent Robotics and Applications</i> , <b>2019</b> , 3, 362-369	1.7	24
199	Cross-Modal Surface Material Retrieval Using Discriminant Adversarial Learning. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 4978-4987	11.9	15
198	Autoencoder-based transfer learning in brain-computer interface for rehabilitation robot. <i>International Journal of Advanced Robotic Systems</i> , <b>2019</b> , 16, 172988141984086	1.4	9
197	Adaptive Cutoff Distance Based Density Peak Pivot for Metric Space Outlier Detection. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 393-405	0.3	
196	Attention-based Transfer Learning for Brain-computer Interface <b>2019</b> ,		4
195	Multimodal grasp data set: A novel visual-tactile data set for robotic manipulation. <i>International Journal of Advanced Robotic Systems</i> , <b>2019</b> , 16, 172988141882157	1.4	10
194	A glove-based system for object recognition via visual-tactile fusion. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	5
193	Local receptive field based extreme learning machine with three channels for histopathological image classification. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2019</b> , 10, 1437-1447	3.8	6
192	LDS-FCM: A Linear Dynamical System Based Fuzzy C-Means Method for Tactile Recognition. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2019</b> , 27, 72-83	8.3	10
191	Automatic Object Searching and Behavior Learning for Mobile Robots in Unstructured Environment by Deep Belief Networks. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , <b>2019</b> , 11, 395-404	3	9
190	Interactive video summarization with human intentions. <i>Multimedia Tools and Applications</i> , <b>2019</b> , 78, 1737-1755	2.5	1
189	Attention Based Visual Analysis for Fast Grasp Planning With a Multi-Fingered Robotic Hand. <i>Frontiers in Neurorobotics</i> , <b>2019</b> , 13, 60	3.4	2

188	Autonomous robot navigation using Retinex algorithm for multiscale image adaptability in low-light environment. <i>Intelligent Service Robotics</i> , <b>2019</b> , 12, 359-369	2.6	8
187	Notice of Violation of IEEE Publication Principles: A Miniaturized Five-Axis Isotropic Tactile Sensor for Robotic Manipulation. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 10243-10252	4	6
186	A novel multi-modal tactile sensor design using thermochromic material. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3.4	6
185	Vision-Based Tactile Perception for Soft Robotic Hand* <b>2019</b> ,		4
184	Learning cross-modal visual-tactile representation using ensembled generative adversarial networks. <i>Cognitive Computation and Systems</i> , <b>2019</b> , 1, 40-44	1.2	7
183	Deep Reinforcement Learning for Robotic Pushing and Picking in Cluttered Environment <b>2019</b> ,		15
182	Making Sense of Audio Vibration for Liquid Height Estimation in Robotic Pouring <b>2019</b> ,		8
181	Open-Environment Robotic Acoustic Perception for Object Recognition. <i>Frontiers in Neurorobotics</i> , <b>2019</b> , 13, 96	3.4	3
180	Dynamic Gesture Recognition Using Inertial Sensors-based Data Gloves <b>2019</b> ,		7
179	Surface Material Retrieval Using Weakly Paired Cross-Modal Learning. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2019</b> , 16, 781-791	4.9	16
178	Robotic Material Perception Using Active Multimodal Fusion. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9878-9886	8.9	22
177	An adaptive PNN-DS approach to classification using multi-sensor information fusion. <i>Neural Computing and Applications</i> , <b>2019</b> , 31, 693-705	4.8	1
176	Haptic recognition using hierarchical extreme learning machine with local-receptive-field. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2019</b> , 10, 541-547	3.8	6
175	Fused Fuzzy Petri Nets: A Shared Control Method for Brain-Computer Interface Systems. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , <b>2019</b> , 11, 188-199	3	5
174	Weakly paired multimodal fusion using multilayer extreme learning machine. <i>Soft Computing</i> , <b>2018</b> , 22, 3533-3544	3.5	8
173	Material Identification Using Tactile Perception: A Semantics-Regularized Dictionary Learning Method. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 1050-1058	5.5	20
172	Active object recognition using hierarchical local-receptive-field-based extreme learning machine. <i>Memetic Computing</i> , <b>2018</b> , 10, 233-241	3.4	18
171	Surface Material Recognition Using Active Multi-modal Extreme Learning Machine. <i>Cognitive Computation</i> , <b>2018</b> , 10, 937-950	4.4	6

170	Small sample learning with high order contractive auto-encoders and application in SAR images. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3-4	1
169	End-to-End ConvNet for Tactile Recognition Using Residual Orthogonal Tiling and Pyramid Convolution Ensemble. <i>Cognitive Computation</i> , <b>2018</b> , 10, 718-736	4-4	7
168	A Review of EEG-Based Brain-Computer Interface Systems Design. <i>Brain Science Advances</i> , <b>2018</b> , 4, 156-167	167	21
167	Experiment on impedance adaptation of under-actuated gripper using tactile array under unknown environment. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3-4	5
166	Brain-inspired Multimodal Learning Based on Neural Networks. <i>Brain Science Advances</i> , <b>2018</b> , 4, 61-72	2	5
165	Wood material recognition for industrial applications. <i>Systems Science and Control Engineering</i> , <b>2018</b> , 6, 346-358	2	1
164	A Dual-Modal Vision-Based Tactile Sensor for Robotic Hand Grasping <b>2018</b> ,		19
163	A novel mode controllable hybrid valve pressure control method for soft robotic gripper. <i>International Journal of Advanced Robotic Systems</i> , <b>2018</b> , 15, 172988141880214	1-4	4
162	Adaptive Adversarial Transfer Learning for Electroencephalography Classification <b>2018</b> ,		3
161	Active Object Detection Using Double DQN and Prioritized Experience Replay <b>2018</b> ,		3
160	Deep Transfer Learning for EEG-Based Brain Computer Interface <b>2018</b> ,		10
159	Visual-Tactile Fusion for Object Recognition. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2017</b> , 14, 996-1008	4-9	140
158	Disturbance Observer Based Composite Learning Fuzzy Control of Nonlinear Systems with Unknown Dead Zone. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1854-1862	7-3	110
157	Robotic grasping recognition using multi-modal deep extreme learning machine. <i>Multidimensional Systems and Signal Processing</i> , <b>2017</b> , 28, 817-833	1-8	21
156	Denosing deep extreme learning machine for sparse representation. <i>Memetic Computing</i> , <b>2017</b> , 9, 199-212	2-12	13
155	Structured Output-Associated Dictionary Learning for Haptic Understanding. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1564-1574	7-3	40
154	Spatial and spectral features fusion for EEG classification during motor imagery in BCI <b>2017</b> ,		7
153	Advancing the incremental fusion of robotic sensory features using online multi-kernel extreme learning machine. <i>Frontiers of Computer Science</i> , <b>2017</b> , 11, 276-289	2-2	2

152	Operation action recognition using wearable devices with inertial sensors <b>2017</b> ,		2
151	An Asynchronous Mi-Based BCI for Brain-Actuated Robot Grasping Control <b>2017</b> ,		1
150	A hybrid deep architecture for robotic grasp detection <b>2017</b> ,		56
149	Neural-network-based integral sliding-mode tracking control of second-order multi-agent systems with unmatched disturbances and completely unknown dynamics. <i>International Journal of Control, Automation and Systems</i> , <b>2017</b> , 15, 1925-1935	2.9	15
148	Deep vision networks for real-time robotic grasp detection. <i>International Journal of Advanced Robotic Systems</i> , <b>2017</b> , 14, 172988141668270	1.4	17
147	Robotic Room-Level Localization Using Multiple Sets of Sonar Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 2-13	5.2	58
146	The consensus region design and analysis of fractional-order multi-agent systems. <i>International Journal of Systems Science</i> , <b>2017</b> , 48, 629-636	2.3	16
145	BrainMachine Interfacing-Based Teleoperation of Multiple Coordinated Mobile Robots. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 5161-5170	8.9	21
144	RON: Reverse Connection with Objectness Prior Networks for Object Detection <b>2017</b> ,		210
143	Learning to detect slip for stable grasping <b>2017</b> ,		2
142	Development of a Wearable Device for Motion Capturing Based on Magnetic and Inertial Measurement Units. <i>Scientific Programming</i> , <b>2017</b> , 2017, 1-11	1.4	11
141	Cluster consensus of high-order multi-agent systems with switching topologies. <i>International Journal of Systems Science</i> , <b>2016</b> , 47, 2859-2868	2.3	9
140	Virtual Strategy QoS routing in satellite networks. <i>Science China Information Sciences</i> , <b>2016</b> , 59, 1	3.4	1
139	Cognitively Inspired 6D Motion Estimation of a Noncooperative Target Using Monocular RGB-D Images. <i>Cognitive Computation</i> , <b>2016</b> , 8, 105-113	4.4	1
138	Object Classification and Grasp Planning Using Visual and Tactile Sensing. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2016</b> , 46, 969-979	7.3	42
137	Video key-frame extraction for smart phones. <i>Multimedia Tools and Applications</i> , <b>2016</b> , 75, 2031-2049	2.5	4
136	Resilient control of cyber-physical systems against intelligent attacker: a hierarchal stackelberg game approach. <i>International Journal of Systems Science</i> , <b>2016</b> , 47, 2067-2077	2.3	59
135	3D Moth-inspired chemical plume tracking and adaptive step control strategy. <i>Adaptive Behavior</i> , <b>2016</b> , 24, 52-65	1.1	14

134	Object Recognition Using Tactile Measurements: Kernel Sparse Coding Methods. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 656-665	5.2	142
133	Discovery of Topical Objects from Video: A Structured Dictionary Learning Approach. <i>Cognitive Computation</i> , <b>2016</b> , 8, 519-528	4.4	6
132	Scaled cluster consensus of discrete-time multi-agent systems with general directed topologies. <i>International Journal of Systems Science</i> , <b>2016</b> , 47, 3839-3845	2.3	16
131	Complexity of Routing in Store-and-Forward LEO Satellite Networks. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 89-92	3.8	10
130	Low-Rank Linear Dynamical Systems for Motor Imagery EEG. <i>Computational Intelligence and Neuroscience</i> , <b>2016</b> , 2016, 2637603	3	7
129	Object discovery and grasp detection with a shared convolutional neural network <b>2016</b> ,		16
128	An effective method for grasp planning on objects with complex geometry combining human experience and analytical approach. <i>Science China Information Sciences</i> , <b>2016</b> , 59, 1	3.4	2
127	A novel data glove for fingers motion capture using inertial and magnetic measurement units <b>2016</b> ,		3
126	RRT-GD: An efficient rapidly-exploring random tree approach with goal directionality for redundant manipulator path planning <b>2016</b> ,		4
125	Learning Cooperative Primitives with physical Human-Robot Interaction for a HUMAN-powered Lower EXOskeleton <b>2016</b> ,		8
124	HyperNet: Towards Accurate Region Proposal Generation and Joint Object Detection <b>2016</b> ,		387
123	A statistical learning based image denoising approach. <i>Frontiers of Computer Science</i> , <b>2015</b> , 9, 713-719	2.2	0
122	Data Fusion-based resilient control system under DoS attacks: A game theoretic approach. <i>International Journal of Control, Automation and Systems</i> , <b>2015</b> , 13, 513-520	2.9	25
121	Resilient control in the presence of DoS attack: Switched system approach. <i>International Journal of Control, Automation and Systems</i> , <b>2015</b> , 13, 1423-1435	2.9	40
120	Non-blind deblurring of structured images with geometric deformation. <i>Visual Computer</i> , <b>2015</b> , 31, 131-140	2.9	6
119	Extended-state-observer-based adaptive control for synchronisation of multi-agent systems with unknown nonlinearities. <i>International Journal of Systems Science</i> , <b>2015</b> , 46, 2520-2530	2.3	15
118	3D moth-inspired chemical plume tracking <b>2015</b> ,		1
117	Consensus of second-order multi-agent systems with time-varying delays and antagonistic interactions. <i>Tsinghua Science and Technology</i> , <b>2015</b> , 20, 205-211	3.4	2



116	Low-frequency robust control for singularly perturbed system. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 203-210	2.5	7
115	HMAX model: A survey <b>2015</b> ,		4
114	Transmissive optical pretouch sensing for robotic grasping <b>2015</b> ,		6
113	Stabilization and Separation Principle of Networked Control Systems Using the TB Fuzzy Model Approach. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2015</b> , 23, 1832-1843	8.3	16
112	A survivable routing protocol for two-layered LEO/MEO satellite networks. <i>Wireless Networks</i> , <b>2014</b> , 20, 871-887	2.5	16
111	Joint Block Structure Sparse Representation For Multi-Input Multi-Output (MIMO) TB Fuzzy System Identification. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2014</b> , 22, 1387-1400	8.3	19
110	Adaptive Fuzzy Control for Multilateral Cooperative Teleoperation of Multiple Robotic Manipulators Under Random Network-Induced Delays. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2014</b> , 22, 437-450	8.3	135
109	Sliding-Mode Predictive Control of Networked Control Systems Under a Multiple-Packet Transmission Policy. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 6234-6243	8.9	40
108	Gain Scheduling Control of Delta Operator System Using Network-Based Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2014</b> , 63, 538-547	5.2	8
107	Fast Low-Rank Subspace Segmentation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2014</b> , 26, 1293-1297	4.2	31
106	Attitude tracking control for hypersonic vehicles based on type-2 fuzzy dynamic characteristic modeling method <b>2014</b> ,		3
105	A system of robotic grasping with experience acquisition. <i>Science China Information Sciences</i> , <b>2014</b> , 57, 1-11	3.4	4
104	Implementation of fuzzy color extractor on NI myRIO embedded device <b>2014</b> ,		3
103	Vessel track information mining using AIS data <b>2014</b> ,		11
102	Architecture and navigation strategy of BCI based semi-autonomous mobile robot <b>2014</b> ,		1
101	Stationary and dynamic consensus of second-order multi-agent systems with Markov jumping input delays. <i>IET Control Theory and Applications</i> , <b>2014</b> , 8, 1905-1913	2.5	9
100	Stabilisation of networked delta operator systems with uncertainty. <i>IET Control Theory and Applications</i> , <b>2014</b> , 8, 2289-2296	2.5	4
99	A QoS-Oriented Congestion Control Mechanism for Satellite Networks. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-13	1.1	2

98	Secure the control system against DoS attacks: A JDL data fusion method <b>2014</b> ,		1
97	Fuzzy Adaptive Disturbance-Observer-Based Robust Tracking Control of Electrically Driven Free-Floating Space Manipulator. <i>IEEE Systems Journal</i> , <b>2014</b> , 8, 343-352	4.3	50
96	Linear dynamic system method for tactile object classification. <i>Science China Information Sciences</i> , <b>2014</b> , 57, 1-11	3.4	6
95	Multitask Extreme Learning Machine for Visual Tracking. <i>Cognitive Computation</i> , <b>2014</b> , 6, 391-404	4.4	13
94	New results on static output feedback H <sub>∞</sub> control for fuzzy singularly perturbed systems: a linear matrix inequality approach. <i>International Journal of Robust and Nonlinear Control</i> , <b>2013</b> , 23, 681-694	3.6	28
93	Routing for predictable Multi-Layered Satellite Networks. <i>Science China Information Sciences</i> , <b>2013</b> , 56, 1-18	3.4	2
92	Supervised Low-Rank Matrix Recovery for Traffic Sign Recognition in Image Sequences. <i>IEEE Signal Processing Letters</i> , <b>2013</b> , 20, 241-244	3.2	15
91	An adaptive P300 model for controlling a humanoid robot with mind <b>2013</b> ,		8
90	Resilient control of cyber-physical systems against Denial-of-Service attacks <b>2013</b> ,		49
89	A grasp synthesis and grasp synergy analysis for anthropomorphic hand <b>2013</b> ,		1
88	Rectification of Optical Characters as Transform Invariant Low-Rank Textures <b>2013</b> ,		3
87	Multiple Geometry Transform Estimation from Single Camera-Captured Text Image <b>2013</b> ,		2
86	Dynamic Fault-Tolerant Routing Based on FSA for LEO Satellite Networks. <i>IEEE Transactions on Computers</i> , <b>2013</b> , 62, 1945-1958	2.5	20
85	Delay-Dependent Fuzzy Control of Networked Control Systems and Its Application. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-9	1.1	
84	Virtual Topology for LEO Satellite Networks Based on Earth-Fixed Footprint Mode. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 357-360	3.8	38
83	An OpenViBE-based brainwave control system for Cerebot <b>2013</b> ,		6
82	Fusion tracking in color and infrared images using joint sparse representation. <i>Science China Information Sciences</i> , <b>2012</b> , 55, 590-599	3.4	54
81	A Fast and Robust Sparse Approach for Hyperspectral Data Classification Using a Few Labeled Samples. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2012</b> , 50, 2287-2302	8.1	110

80	Decentralized multi-objective robust control of interconnected fuzzy singular perturbed model with multiple perturbation parameters <b>2012</b> ,		1
79	Direct neural discrete control of hypersonic flight vehicle. <i>Nonlinear Dynamics</i> , <b>2012</b> , 70, 269-278	5	71
78	A dynamic T-S fuzzy systems identification algorithm based on sparsity regularization <b>2012</b> ,		1
77	A Novel Distributed Routing Algorithm for LEO Satellite Network <b>2012</b> ,		3
76	Information fusion-based mobile robot path control <b>2012</b> ,		1
75	Dexterous robotic hand grasp modeling using piecewise linear dynamic model <b>2012</b> ,		4
74	Person re-identification based on visual saliency <b>2012</b> ,		10
73	Peaking Free HGO Based Neural Hypersonic Flight Vehicle Control <b>2012</b> ,		1
72	A new result on state feedback robust stabilization for discrete-time fuzzy singularly perturbed systems. <i>Asian Journal of Control</i> , <b>2012</b> , 14, 784-794	1.7	9
71	Maximal terminal region approach for MPC using subsets sequence. <i>Frontiers of Electrical and Electronic Engineering</i> , <b>2012</b> , 7, 270-278		
70	Robust consensus for networked mechanical systems with coupling time delay. <i>International Journal of Control, Automation and Systems</i> , <b>2012</b> , 10, 227-237	2.9	14
69	An efficient population diversity measure for improved particle swarm optimization algorithm <b>2012</b> ,		2
68	Estimating viewing angles in mobile street view search <b>2012</b> ,		1
67	Adaptive discrete-time controller design with neural network for hypersonic flight vehicle via back-stepping. <i>International Journal of Control</i> , <b>2011</b> , 84, 1543-1552	1.5	102
66	A novel routing algorithm based on dynamic clustering for LEO satellite networks <b>2011</b> ,		1
65	Gain-Scheduling-Based State Feedback Integral Control for Networked Control Systems. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 2465-2472	8.9	46
64	Mixed H <sub>2</sub> /H <sub>∞</sub> control using a fuzzy singularly perturbed model with multiple perturbation parameters for gust load alleviation. <i>Tsinghua Science and Technology</i> , <b>2011</b> , 16, 344-351	3.4	6
63	Multi-objective robust control based on fuzzy singularly perturbed models for hypersonic vehicles. <i>Science China Information Sciences</i> , <b>2011</b> , 54, 563-576	3.4	16

62	Optimal four-impulse rendezvous between coplanar elliptical orbits. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2011</b> , 54, 792-802	3.6	4
61	Pulse coupled neural network edge-based algorithm for image text locating. <i>Tsinghua Science and Technology</i> , <b>2011</b> , 16, 22-30	3.4	5
60	EDA-based output tracking control for networked control systems with time delays and packet losses <b>2011</b> ,		1
59	Passive four-channel multilateral shared control architecture in teleoperation <b>2010</b> ,		7
58	A Multi-QoS Objective Optimization Routing for Hierarchical Satellite Networks <b>2010</b> ,		1
57	A QoS Routing Scheme Based on Ground Station for LEO Satellite Networks <b>2010</b> ,		1
56	Distributed 6DOF coordination control of spacecraft formation with coupling time delay <b>2010</b> ,		4
55	Visual Tracking Using Sparsity Induced Similarity <b>2010</b> ,		14
54	Active fault-tolerant control design for T-S fuzzy systems with application to a near space vehicle <b>2010</b> ,		2
53	Quotient space-based boundary condition for particle swarm optimization algorithm <b>2010</b> ,		1
52	Flight behavior recognizing in terminal area based on support vector machine <b>2010</b> ,		1
51	Online chaotic time series prediction using unbiased composite kernel machine via Cholesky factorization. <i>Soft Computing</i> , <b>2010</b> , 14, 931-944	3.5	9
50	A robust training algorithm of discrete-time MIMO RNN and application in fault tolerant control of robotic system. <i>Neural Computing and Applications</i> , <b>2010</b> , 19, 1013-1027	4.8	13
49	The direct adaptive control based on the singularly perturbed model with the unknown consequence parameters. <i>International Journal of Control, Automation and Systems</i> , <b>2010</b> , 8, 238-243	2.9	2
48	A sustainable heuristic QoS routing algorithm for pervasive multi-layered satellite wireless networks. <i>Wireless Networks</i> , <b>2010</b> , 16, 1657-1673	2.5	59
47	Space teleoperation with large time delay based on vision feedback and virtual reality <b>2009</b> ,		1
46	Two Novel Kernel-Based Semi-Supervised Clustering Methods by Seeding <b>2009</b> ,		4
45	Semi-supervised ensemble tracking <b>2009</b> ,		2

44	An adaptive PNN-DS approach to classification using multi-sensor information fusion. <i>Neural Computing and Applications</i> , <b>2009</b> , 18, 455-467	4.8	6
43	Ciphertext verification security of symmetric encryption schemes. <i>Science in China Series F: Information Sciences</i> , <b>2009</b> , 52, 1617-1631		5
42	Using IND-CVA for constructing secure communication. <i>Science in China Series F: Information Sciences</i> , <b>2009</b> , 52, 1801-1811		
41	A new approach to fuzzy modeling and control for nonlinear dynamic systems: Neuro-fuzzy dynamic characteristic modeling and adaptive control mechanism. <i>International Journal of Control, Automation and Systems</i> , <b>2009</b> , 7, 123-132	2.9	10
40	Dependent controllability for two time-scale systems. <i>Tsinghua Science and Technology</i> , <b>2009</b> , 14, 271-280		
39	Decentralized UAV formation tracking flight control using gyroscopic force <b>2009</b> ,		2
38	Color vision-based multi-level analysis and fusion for road area detection <b>2008</b> ,		2
37	Fuzzy Particle Filtering for Uncertain Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2008</b> , 16, 1114-1129	8.3	16
36	AQoS routing based on heuristic algorithm for Double-Layered Satellite Networks <b>2008</b> ,		3
35	Fusion tracking in color and infrared images using sequential belief propagation <b>2008</b> ,		1
34	An adaptive feature fusion framework for multi-class classification based on SVM. <i>Soft Computing</i> , <b>2008</b> , 12, 685-691	3.5	7
33	A novel QoS routing protocol for LEO and MEO satellite networks. <i>International Journal of Satellite Communications and Networking</i> , <b>2007</b> , 25, 603-617	1.7	25
32	Vehicle tracking using stochastic fusion-based particle filter <b>2007</b> ,		1
31	A Constructive Approach to Approximate Linear Periodic Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 541-546	5.9	3
30	Symmetry-Aided Particle Filter for Vehicle Tracking. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , <b>2007</b> ,		5
29	Neuro-Fuzzy Dynamic-Inversion-Based Adaptive Control for Robotic Manipulators Discrete Time Case. <i>IEEE Industrial Electronics Magazine</i> , <b>2007</b> , 54, 1342-1351	6.2	54
28	Universal Approximation for Takagi-Sugeno Fuzzy Systems Using Dynamically Constructive Method-SISO Cases <b>2007</b> ,		1
27	Online Route Planner for Unmanned Air Vehicle Navigation in Unknown Battlefield Environment <b>2006</b> ,		4

26	A Writer Recognition approach Based on SVM <b>2006</b> ,		4
25	Fuzzy Characteristic Model Based Intelligent Adaptive Control for Aerospace Craft <b>2006</b> ,		1
24	Cloud Model-based Controller Design for Flexible-Link Manipulators <b>2006</b> ,		3
23	Robust control of uncertain discrete-time Markovian jump systems with actuator saturation. <i>International Journal of Control</i> , <b>2006</b> , 79, 805-812	1.5	43
22	Benchmarking of Routing Protocols for Layered Satellite Networks <b>2006</b> ,		2
21	Stable Fuzzy Adaptive Controller Design For Nonlinear Singularly Perturbed Systems <b>2006</b> ,		1
20	Fuzzy clustering with novel separable criterion. <i>Tsinghua Science and Technology</i> , <b>2006</b> , 11, 50-53	3.4	17
19	Stability analysis and synthesis of fuzzy singularly perturbed systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2005</b> , 13, 273-284	8.3	75
18	Evolutionary route planner for unmanned air vehicles <b>2005</b> , 21, 609-620		182
17	Neuro-fuzzy system modeling based on automatic fuzzy clustering. <i>Journal of Control Theory and Applications</i> , <b>2005</b> , 3, 121-130		1
16	Optimal Trajectory Planning of a Flexible Dual-Arm Space Robot with Vibration Reduction. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2004</b> , 40, 147-163	2.9	16
15	Design of reduced-order H/sub /spl infin// filter for Markovian jumping systems with time delay. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , <b>2004</b> , 51, 607-612		61
14	Neural network-based adaptive controller design of robotic manipulators with an observer. <i>IEEE Transactions on Neural Networks</i> , <b>2001</b> , 12, 54-67		65
13	Path control of a surface ship in restricted waters using sliding mode. <i>IEEE Transactions on Control Systems Technology</i> , <b>2000</b> , 8, 722-732	4.8	43
12	Stable Neuro-Adaptive Control for Robots with the Upper Bound Estimation on the Neural Approximation Errors. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>1999</b> , 26, 91-100 <sup>9</sup>		9
11	Stable Sampled-data Adaptive Control of Robot Arms Using Neural Networks. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>1997</b> , 20, 131-155	2.9	7
10	The adaptive sliding mode control based on a fuzzy neural network for manipulators		4
9	A multirate adaptive composite controller for flexible-link robots using neural networks		1

8	Guaranteed cost control for NCSs via a discrete-time jump fuzzy system approach	1
7	H $\infty$ Feedback Control of Fuzzy Singular Perturbed System	1
6	Space robot modeling and control considering the effect of orbital mechanics	2
5	Fuzzy control for nonlinear singularly perturbed systems with time-delay	2
4	Improved validation index for fuzzy clustering	8
3	Path control of a surface ship in restricted waters using sliding mode	7
2	Towards Embodied Scene Description	4
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