

# Shun-Feng Su

## 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.

132  
papers

3,186  
citations

33  
h-index

53  
g-index

173  
ext. papers

4,217  
ext. citations

5.4  
avg, IF

6.37  
L-index

#	Paper	IF	Citations
132	Survey on Collision-Avoidance Navigation of Maritime Autonomous Surface Ships <b>2022</b> , 1-33		0
131	Neural-based adaptive control for nonlinear systems with quantized input and the output constraint. <i>Applied Mathematics and Computation</i> , <b>2022</b> , 413, 126637	2.7	3
130	Dynamic Event-Triggered Control for Interval Type-2 Fuzzy Systems Under Fading Channel. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 5342-5351	10.2	14
129	Automatic detect lung node with deep learning in segmentation and imbalance data labeling. <i>Scientific Reports</i> , <b>2021</b> , 11, 11174	4.9	4
128	Coronary artery segmentation under class imbalance using a U-Net based architecture on computed tomography angiography images. <i>Scientific Reports</i> , <b>2021</b> , 11, 14493	4.9	3
127	HMM-Based Asynchronous H Filtering for Fuzzy Singular Markovian Switching Systems With Retarded Time-Varying Delays. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 1189-1203	10.2	34
126	Novel Adaptive Fuzzy Control for Output Constrained Stochastic Nonstrict Feedback Nonlinear Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 1188-1197	8.3	38
125	Reduced Adaptive Fuzzy Decoupling Control for Lower Limb Exoskeleton. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 1099-1109	10.2	40
124	Spectral images based environmental sound classification using CNN with meaningful data augmentation. <i>Applied Acoustics</i> , <b>2021</b> , 172, 107581	3.1	20
123	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 4409-4416	7.3	9
122	Finite-Time Unknown Observer-Based Interactive Trajectory Tracking Control of Asymmetric Underactuated Surface Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 794-803	4.8	32
121	Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-10	7.3	9
120	Fault Detection for Semi-Markov Switching Systems in the Presence of Positivity Constraints. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	9
119	Pharmaceutical Blister Package Identification Based on Induced Deep Learning. <i>IEEE Access</i> , <b>2021</b> , 9, 101344-101356	3.5	0
118	Time-Driven Adaptive Control of Switched Systems With Application to Electro-Hydraulic Unit. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	3
117	Global Finite-Time Stabilization for Uncertain Systems With Unknown Measurement Sensitivity. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	2
116	Fixed-Time Adaptive Neural Network Control for Nonlinear Systems With Input Saturation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	3

115	Adaptive Fuzzy Event-Triggered Control for Single-Link Flexible-Joint Robots With Actuator Failures. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	13
114	Performance Analysis of Machine Learning Algorithms for Thyroid Disease. <i>Arabian Journal for Science and Engineering</i> , <b>2021</b> , 46, 9437-9449	2.5	5
113	Stability and Control of Fuzzy Semi-Markov Jump Systems Under Unknown Semi-Markov Kernel. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	1
112	Observer-Based Event-Triggered Adaptive Fuzzy Control for Unmeasured Stochastic Nonlinear Systems With Unknown Control Directions. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	12
111	Adaptive quantized control for uncertain nonlinear systems with unknown control directions. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 8658	3.6	2
110	Adaptive Fuzzy tracking for flexible-joint robots with random noises via command filter control. <i>Information Sciences</i> , <b>2021</b> , 575, 116-132	7.7	2
109	Event-Triggered Adaptive Fuzzy Tracking Control for Nonlinear Systems With Unknown Control Directions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-10	7.3	2
108	Neural-based adaptive event-triggered tracking control for flexible-joint robots with random noises. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> ,	3.6	2
107	Asynchronous feedback control for delayed fuzzy degenerate jump systems under observer-based event-driven characteristic. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	17
106	Finite-Time Command Filtered Event-Triggered Adaptive Fuzzy Tracking Control for Stochastic Nonlinear Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	67
105	Global Spatio-Temporal Attention for Action Recognition Based on 3D Human Skeleton Data. <i>IEEE Access</i> , <b>2020</b> , 8, 88604-88616	3.5	6
104	Environmental sound classification using a regularized deep convolutional neural network with data augmentation. <i>Applied Acoustics</i> , <b>2020</b> , 167, 107389	3.1	43
103	Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-9	7.3	12
102	Human Intelligence Meets Smart Machine: A Special Event at the IEEE International Conference on Systems, Man, and Cybernetics 2018. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , <b>2020</b> , 6, 23-31	1.6	4
101	Vision/Position Hybrid Control for a Hexa Robot Using Bacterial Foraging Optimization in Real-time Pose Adjustment. <i>Symmetry</i> , <b>2020</b> , 12, 564	2.7	3
100	Adaptive Fuzzy Event-Triggered Control for High-Order Nonlinear Systems With Prescribed Performance. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	14
99	Global Finite Time Active Disturbance Rejection Control for Parallel Manipulators With Unknown Bounded Uncertainties. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-12	7.3	8
98	Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-13	7.3	3

97	Efficient Classification of Environmental Sounds through Multiple Features Aggregation and Data Enhancement Techniques for Spectrogram Images. <i>Symmetry</i> , <b>2020</b> , 12, 1822	2.7	6
96	End-to-end identification of pharmaceutical blister packages based on one-side handheld images <b>2020</b> ,		1
95	H <sub>∞</sub> Tracking Control of Uncertain Markovian Hybrid Switching Systems: A Fuzzy Switching Dynamic Adaptive Control Approach. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	9
94	Adaptive Tracking Control of Wheeled Inverted Pendulums With Periodic Disturbances. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 1867-1876	10.2	76
93	Adaptive Fuzzy Control With High-Order Barrier Lyapunov Functions for High-Order Uncertain Nonlinear Systems With Full-State Constraints. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 3424-3432	10.2	119
92	Adaptive Finite-Time Fuzzy Control of Nonlinear Active Suspension Systems With Input Delay. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 2639-2650	10.2	59
91	Adaptive finite-time neural network control for redundant parallel manipulators. <i>Asian Journal of Control</i> , <b>2020</b> , 22, 2534-2542	1.7	1
90	Finite-time fault-tolerant trajectory tracking control of an autonomous surface vehicle. <i>Journal of the Franklin Institute</i> , <b>2020</b> , 357, 11114-11135	4	27
89	Pyramidal Lucas $\lambda$ -Based Noncontact Breath Motion Detection. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 2659-2670	7.3	7
88	Adaptive Neural Network Controller-Based Chattering-Free Sliding Mode for 6-Dof Industrial Manipulators <b>2019</b> ,		2
87	Adaptive Nonsingular Fast Terminal Sliding Mode Tracking Control for Parallel Manipulators with Uncertainties <b>2019</b> ,		3
86	Implementation of Encryption Algorithm and Wireless Image Transmission System on FPGA. <i>IEEE Access</i> , <b>2019</b> , 7, 50513-50523	3.5	7
85	Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 1-11	7.3	97
84	Fuzzy unknown observer-based robust adaptive path following control of underactuated surface vehicles subject to multiple unknowns. <i>Ocean Engineering</i> , <b>2019</b> , 176, 57-64	3.9	69
83	Accurate Trajectory Tracking of Disturbed Surface Vehicles: A Finite-Time Control Approach. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 1064-1074	5.5	121
82	Backpropagating Constraints-Based Trajectory Tracking Control of a Quadrotor With Constrained Actuator Dynamics and Complex Unknowns. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 1322-1337	7.3	58
81	Fuzzy Synchronization Control of Complex Dynamical Networks Under Network Attacks and Actuator Faults. <i>International Journal of Fuzzy Systems</i> , <b>2019</b> , 21, 2043-2053	3.6	6
80	Finite-Time Adaptive Fuzzy Tracking Control Design for Parallel Manipulators with Unbounded Uncertainties. <i>International Journal of Fuzzy Systems</i> , <b>2019</b> , 21, 545-555	3.6	12

79	Full-State Regulation Control of Asymmetric Underactuated Surface Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 8741-8750	8.9	52
78	Adaptive Fuzzy Tracking Control of Flexible-Joint Robots With Full-State Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 2201-2209	7.3	91
77	Yaw-Guided Trajectory Tracking Control of an Asymmetric Underactuated Surface Vehicle. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 3502-3513	11.9	77
76	Adaptive Chattering Free Neural Network Based Sliding Mode Control for Trajectory Tracking of Redundant Parallel Manipulators. <i>Asian Journal of Control</i> , <b>2019</b> , 21, 908-923	1.7	19
75	. <i>IEEE Access</i> , <b>2018</b> , 6, 14059-14070	3.5	66
74	. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , <b>2018</b> , 4, 6-13	1.6	3
73	A Bibliometric Overview and Visualization of the International Journal of Fuzzy Systems Between 2007 and 2017. <i>International Journal of Fuzzy Systems</i> , <b>2018</b> , 20, 1403-1422	3.6	40
72	Fuzzy Uncertainty Observer-Based Path-Following Control of Underactuated Marine Vehicles with Unmodeled Dynamics and Disturbances. <i>International Journal of Fuzzy Systems</i> , <b>2018</b> , 20, 2593-2604	3.6	29
71	Global Asymptotic Model-Free Trajectory-Independent Tracking Control of an Uncertain Marine Vehicle: An Adaptive Universe-Based Fuzzy Control Approach. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2018</b> , 26, 1613-1625	8.3	108
70	Robust Human Action Recognition Using Global Spatial-Temporal Attention for Human Skeleton Data <b>2018</b> ,		6
69	A Novel Fuzzy Modeling Structure-Decomposed Fuzzy System. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 2311-2317	7.3	26
68	Efficient Approach for RLS Type Learning in TSK Neural Fuzzy Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 2343-2352	10.2	19
67	Real time human tracking using improved CAM-shift <b>2017</b> ,		2
66	Industry 4.0: A Special Section in IEEE Access. <i>IEEE Access</i> , <b>2017</b> , 5, 12257-12261	3.5	9
65	Towards self-driving car using convolutional neural network and road lane detector <b>2017</b> ,		20
64	Adaptive PD networks tracking control with full-state constraints for redundant parallel manipulators <b>2017</b> ,		7
63	Real-time non-contact breath detection from video using adaboost and Lucas-Kanade algorithm <b>2017</b> ,		4
62	Adaptive PID tracking control based radial basic function networks for a 2-DOF parallel manipulator <b>2017</b> ,		8

61	Linewidth Reconstruction Employing a Radial Basis Function Network in Optical Scatterometry. <i>IEEE Access</i> , <b>2016</b> , 4, 6739-6748	3.5	1
60	Editorial Message: IJFS Journal Information and Best Paper Award. <i>International Journal of Fuzzy Systems</i> , <b>2016</b> , 18, 731-731	3.6	
59	Wall following and continuously stair climbing systems for a tracked robot <b>2015</b> ,		3
58	Adaptive PD fuzzy control with dynamic learning rate for two-wheeled balancing six degrees of freedom robotic arm <b>2015</b> ,		2
57	Notice of Removal: Adaptive intelligent steering control of ball-riding human transporter <b>2015</b> ,		1
56	Deep learning and its application to general image classification <b>2015</b> ,		6
55	Vision-Based Hand Gesture Recognition System for a Dynamic and Complicated Environment <b>2015</b> ,		8
54	Direct Adaptive Fuzzy Sliding Mode Control for Under-actuated Uncertain Systems. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , <b>2015</b> , 15, 240-250	1.8	15
53	Study of terminal sliding mode control with fault-tolerant design <b>2014</b> ,		1
52	Decomposed fuzzy systems and their application in direct adaptive fuzzy control. <i>IEEE Transactions on Cybernetics</i> , <b>2014</b> , 44, 1772-83	10.2	48
51	Multi-root I/O virtualization based redundant systems <b>2014</b> ,		1
50	Mobile robot self-localization system using single webcam distance measurement technology in indoor environments. <i>Sensors</i> , <b>2014</b> , 14, 2089-109	3.8	10
49	Moment Adaptive Fuzzy Control and Residue Compensation. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2014</b> , 22, 803-816	8.3	10
48	On Neural Fuzzy Systems. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , <b>2014</b> , 14, 276-287	1.8	2
47	Machine-vision based obstacle avoidance system for robot system <b>2013</b> ,		2
46	Image-based obstacle avoidance and path-planning system <b>2013</b> ,		1
45	Enhance LANDMARC from the fundamentals <b>2013</b> ,		5
44	Nonlinear rudder roll stabilization using Fuzzy Gain Scheduling - PID controller for naval vessel <b>2013</b> ,		4

43	Radial basis function networks with linear interval regression weights for symbolic interval data. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2012</b> , 42, 69-80		29
42	Learning analysis for correlation of fuzzy rules in applying RLS for neural fuzzy systems <b>2012</b> ,		3
41	Hierarchical TS fuzzy-neural control of anti-lock braking system and active suspension in a vehicle. <i>Automatica</i> , <b>2012</b> , 48, 1698-1706	5.7	39
40	Learning Error Feedback Design of Direct Adaptive Fuzzy Control Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2012</b> , 20, 536-545	8.3	37
39	Dissipative control for a class of uncertain nonlinear control systems. <i>Asian Journal of Control</i> , <b>2012</b> , 14, 835-845	1.7	
38	Modelling of emergency vehicle preemption systems using statecharts <b>2011</b> ,		6
37	CMAC-based previous step supervisory control schemes for relaxing bound in adaptive fuzzy control. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 5715-5723	7.5	9
36	Analysis of using RLS in neural fuzzy systems <b>2011</b> ,		2
35	Content-independent image processing based fall detection <b>2011</b> ,		4
34	Direct adaptive fuzzy decoupled sliding control for a class of under-actuated uncertain systems <b>2011</b> ,		1
33	Robust $L_2$ -Gain Compensative Control for Direct-Adaptive Fuzzy-Control-System Design. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2010</b> , 18, 661-673	8.3	29
32	Design of neural-fuzzy-based controller for two autonomously driven wheeled robot. <i>Neurocomputing</i> , <b>2010</b> , 73, 2478-2488	5.4	21
31	Adaptive fuzzy sliding controller design with approximate error feedback <b>2009</b> ,		2
30	Novel direct adaptive fuzzy control system design <b>2009</b> ,		1
29	Fuzzy control design for switched nonlinear systems <b>2008</b> ,		1
28	Special section on machine intelligence approaches to systems biology. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2008</b> , 38, 2-4		2
27	Self-tuning sliding mode controller design for a class of nonlinear control systems. <i>Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics</i> , <b>2008</b> ,	2	1
26	Genetic algorithm with ant colony optimization (GA-ACO) for multiple sequence alignment. <i>Applied Soft Computing Journal</i> , <b>2008</b> , 8, 55-78	7.5	137

25	A hybrid watermarking technique applied to digital images. <i>Applied Soft Computing Journal</i> , <b>2008</b> , 8, 798-808	7.5	39
24	MIMO Robust Control via T-S Fuzzy Models for Nonaffine Nonlinear Systems. <i>IEEE International Conference on Fuzzy Systems</i> , <b>2007</b> ,		2
23	A Merged Fuzzy Neural Network and Its Applications in Battery State-of-Charge Estimation. <i>IEEE Transactions on Energy Conversion</i> , <b>2007</b> , 22, 697-708	5.4	112
22	Performance Comparisons between Unsupervised Clustering Techniques for Microarray Data Analysis on Ovarian Cancer <b>2006</b> ,		1
21	A New Approach for Solving 0/1 Knapsack Problem <b>2006</b> ,		13
20	T-S Fuzzy Control for Uncertain Nonlinear Systems Using Adaptive Fuzzy Approach <b>2006</b> ,		4
19	Robust and fast learning for fuzzy cerebellar model articulation controllers. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2006</b> , 36, 203-8		39
18	Robust static output-feedback stabilization for nonlinear discrete-time systems with time delay via fuzzy control approach. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2005</b> , 13, 263-272	8.3	59
17	Static output feedback stabilization for nonlinear interval time-delay systems via fuzzy control approach. <i>Fuzzy Sets and Systems</i> , <b>2004</b> , 148, 395-410	3.7	24
16	A genetic algorithm based robust learning credit assignment cerebellar model articulation controller. <i>Applied Soft Computing Journal</i> , <b>2004</b> , 4, 357-367	7.5	29
15	Fuzzy hierarchical data fusion networks for terrain location identification problems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2004</b> , 34, 731-9		4
14	A Heuristic Genetic Algorithm for Solving Resource Allocation Problems. <i>Knowledge and Information Systems</i> , <b>2003</b> , 5, 503-511	2.4	23
13	Support vector interval regression networks for interval regression analysis. <i>Fuzzy Sets and Systems</i> , <b>2003</b> , 138, 283-300	3.7	93
12	Credit assigned CMAC and its application to online learning robust controllers. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2003</b> , 33, 202-13		54
11	An immunity-based ant colony optimization algorithm for solving weapon-target assignment problem. <i>Applied Soft Computing Journal</i> , <b>2002</b> , 2, 39-47	7.5	139
10	On the dynamical modeling with neural fuzzy networks. <i>IEEE Transactions on Neural Networks</i> , <b>2002</b> , 13, 1548-53		33
9	Robust support vector regression networks for function approximation with outliers. <i>IEEE Transactions on Neural Networks</i> , <b>2002</b> , 13, 1322-30		121
8	A high precision global prediction approach based on local prediction approaches. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2002</b> , 32, 416-425		21



7	High-precision forecast using grey models. <i>International Journal of Systems Science</i> , <b>2001</b> , 32, 609-619	2.3	39
6	Robust TSK fuzzy modeling for function approximation with outliers. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2001</b> , 9, 810-821	8.3	72
5	The annealing robust backpropagation (ARBP) learning algorithm. <i>IEEE Transactions on Neural Networks</i> , <b>2000</b> , 11, 1067-77		96
4	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>1996</b> , 12, 313-323		4
3	On the analysis of direct adaptive fuzzy controllers		1
2	Hierarchical clustering methods for semiconductor manufacturing data		1
1	Adaptive prescribed performance asymptotic tracking control for nonlinear systems with time-varying parameters. <i>International Journal of Robust and Nonlinear Control</i> ,	3.6	2