

# Okyay Kaynak

## List of Publications by Year in descending order

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257  
papers

14,279  
citations

25034

57  
h-index

21540

114  
g-index

263  
all docs

263  
docs citations

263  
times ranked

9890  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Domain Frequency Estimation With Application to Fault Diagnosis of the Unmanned Aerial Vehiclesâ€™ Blade Damage. IEEE Transactions on Industrial Electronics, 2022, 69, 5257-5266.	7.9	10
2	Event-Triggered Fuzzy Adaptive Leader-Following Tracking Control of Nonaffine Multiagent Systems With Finite-Time Output Constraint and Input Saturation. IEEE Transactions on Fuzzy Systems, 2022, 30, 933-944.	9.8	41
3	Control of an ALUV with completely unknown dynamics and multi-asymmetric input constraints via off-policy reinforcement learning. Neural Computing and Applications, 2022, 34, 5255-5265.	5.6	13
4	Fractional Order Integral Sliding Mode Controller Based on Neural Network: Theory and Electro-Hydraulic Benchmark Test. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1457-1466.	5.8	10
5	A Novel Subspace-Aided Fault Detection Approach for the Drive Systems of Rolling Mills. IEEE Transactions on Control Systems Technology, 2022, 30, 1742-1749.	5.2	8
6	Proportional integral derivative booster for neural networks-based time-series prediction: Case of water demand prediction. Engineering Applications of Artificial Intelligence, 2022, 108, 104570.	8.1	14
7	An integrated data-driven scheme for the defense of typical cyberâ€“physical attacks. Reliability Engineering and System Safety, 2022, 220, 108257.	8.9	25
8	Quo vadis artificial intelligence?. Discover Artificial Intelligence, 2022, 2, 1.	3.1	75
9	Secure Data Transmission and Trustworthiness Judgement Approaches Against Cyber-Physical Attacks in an Integrated Data-Driven Framework. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7799-7809.	9.3	56
10	Fuzzy Approximation-Based Finite-Time Control for a Robot With Actuator Saturation Under Time-Varying Constraints of Work Space. IEEE Transactions on Cybernetics, 2021, 51, 4873-4884.	9.5	66
11	Adaptive Robust Finite-Time Nonlinear Control of a Typical Autonomous Underwater Vehicle With Saturated Inputs and Uncertainties. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2517-2527.	5.8	37
12	Optimized Design of Parity Relation-Based Residual Generator for Fault Detection: Data-Driven Approaches. IEEE Transactions on Industrial Informatics, 2021, 17, 1449-1458.	11.3	114
13	A Novel Bias-Eliminated Subspace Identification Approach for Closed-Loop Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 5197-5205.	7.9	10
14	Adaptive SMO-Based Fault Estimation for Markov Jump Systems With Simultaneous Additive and Multiplicative Actuator Faults. IEEE Systems Journal, 2021, 15, 607-616.	4.6	6
15	Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3687-3698.	9.3	50
16	Optimal tracking control based on reinforcement learning value iteration algorithm for time-delayed nonlinear systems with external disturbances and input constraints. Information Sciences, 2021, 554, 84-98.	6.9	26
17	Real-Time Implementation of Plug-and-Play Process Monitoring and Control on an Experimental Three-Tank System. IEEE Transactions on Industrial Informatics, 2021, 17, 6448-6456.	11.3	9
18	Performance Supervised Plant-Wide Process Monitoring in Industry 4.0: A Roadmap. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 21-35.	6.8	82

#	ARTICLE	IF	CITATIONS
19	Rule-Based Sliding-Mode Fuzzy Logic Control. <i>Studies in Systems, Decision and Control</i> , 2021, , 89-102.	1.0	0
20	A 70-Year Industrial Electronics Society Evolution Through Industrial Revolutions: The Rise and Flourishing of Information and Communication Technologies. <i>IEEE Industrial Electronics Magazine</i> , 2021, 15, 115-126.	2.6	17
21	Guest Editorial Focused Section on Mechatronics in Unmanned Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 595-599.	5.8	0
22	A Review on Soft Sensors for Monitoring, Control, and Optimization of Industrial Processes. <i>IEEE Sensors Journal</i> , 2021, 21, 12868-12881.	4.7	252
23	Towards symbiotic autonomous systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200359.	3.4	1
24	Industrial applications of digital twins. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200360.	3.4	102
25	A novel deep neural network architecture for real-time water demand forecasting. <i>Journal of Hydrology</i> , 2021, 599, 126353.	5.4	40
26	On the philosophical, cognitive and mathematical foundations of symbiotic autonomous systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200362.	3.4	21
27	When medical images meet generative adversarial network: recent development and research opportunities. <i>Discover Artificial Intelligence</i> , 2021, 1, 1.	3.1	24
28	The golden age of Artificial Intelligence. <i>Discover Artificial Intelligence</i> , 2021, 1, 1.	3.1	10
29	Guest Editorial: Data-Driven Management of Complex Systems Through Plant-Wide Performance Supervision. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 6324-6328.	11.3	1
30	Intelligent Optimization of Sliding-Mode Fuzzy Logic Controllers. <i>Studies in Systems, Decision and Control</i> , 2021, , 213-234.	1.0	0
31	Fuzzy Logic Systems. <i>Studies in Systems, Decision and Control</i> , 2021, , 57-87.	1.0	0
32	Spatiotemporal Behind-the-Meter Load and PV Power Forecasting via Deep Graph Dictionary Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 4713-4727.	11.3	27
33	Adaptive Neural Network Control of Underwater Robotic Manipulators Tuned by a Genetic Algorithm. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 97, 657-672.	3.4	29
34	A Robust Data-Driven Fault Detection Approach for Rolling Mills With Unknown Roll Eccentricity. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 2641-2648.	5.2	48
35	Disturbance Observer-Based Neural Network Control of Cooperative Multiple Manipulators With Input Saturation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 1735-1746.	11.3	91
36	A Novel Control-Performance-Oriented Data-Driven Fault Classification Approach. <i>IEEE Systems Journal</i> , 2020, 14, 1830-1839.	4.6	8

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37	Uncertainty and Disturbance Estimator-Based Control of a Flapping-Wing Aerial Vehicle With Unknown Backlash-Like Hysteresis. IEEE Transactions on Industrial Electronics, 2020, 67, 4826-4835.	7.9	21
38	Genetic Algorithm for the Mutual Information-Based Feature Selection in Univariate Time Series Data. IEEE Access, 2020, 8, 9597-9609.	4.2	11
39	A novel fractional-order fuzzy control method based on immersion and invariance approach. Applied Soft Computing Journal, 2020, 88, 106043.	7.2	17
40	Chaos suppression in speed control for permanent-magnet-synchronous-motor drive system. Journal of the Franklin Institute, 2020, 357, 13283-13303.	3.4	14
41	Guest Editorial Special Issue on Fault Diagnosis and Adaptive Fault-Tolerant Control for Automatic Control Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3330-3332.	9.3	1
42	Dynamical Modeling and Boundary Vibration Control of a Rigid-Flexible Wing System. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2711-2721.	5.8	254
43	IEEE Access Special Section Editorial: Data-Driven Monitoring, Fault Diagnosis and Control of Cyber-Physical Systems. IEEE Access, 2020, 8, 54110-54114.	4.2	4
44	A recursive modified partial least square aided data-driven predictive control with application to continuous stirred tank heater. Journal of Process Control, 2020, 89, 108-118.	3.3	10
45	An Intelligent Fault Classification Method Based on Data-Driven Stability Margin. , 2020, , .		0
46	Robust predictive synchronization of uncertain fractional-order time-delayed chaotic systems. Soft Computing, 2019, 23, 6883-6898.	3.6	40
47	A Study of PnP Process Monitoring Technique on Three-Tank System. , 2019, , .		0
48	Fractional order sliding mode control of a pneumatic position servo system. Journal of the Franklin Institute, 2019, 356, 6160-6174.	3.4	47
49	Adaptive Backstepping Control of a Pneumatic System With Unknown Model Parameters and Control Direction. IEEE Access, 2019, 7, 64471-64482.	4.2	16
50	A novel general type-2 fuzzy controller for fractional-order multi-agent systems under unknown time-varying topology. Journal of the Franklin Institute, 2019, 356, 5151-5171.	3.4	57
51	Plug-and-Play Process Control System Design for Three-tank System with Online Tracking Performance Optimization. , 2019, , .		1
52	An Online Recursive Computational Approach for the Closed-Loop Stability Margin of the PnP Process Monitoring and Control Structure. , 2019, , .		0
53	Data-driven adaptive residual generator design using sliding window. , 2019, , .		1
54	Optimal Design of a Fractional-Order Proportional-Integer-Differential Controller for a Pneumatic Position Servo System. IEEE Transactions on Industrial Electronics, 2019, 66, 6220-6229.	7.9	69

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55	Sliding Mode Control and Observation for Complex Industrial Systems”Part II. IEEE Transactions on Industrial Electronics, 2018, 65, 830-833.	7.9	6
56	Robust Identification of LPV Time-Delay System With Randomly Missing Measurements. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2198-2208.	9.3	48
57	A Partial Least Squares Aided Intelligent Model Predictive Control Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2013-2021.	9.3	18
58	An Identification Approach for the Data-Driven SIR in the PnP Monitoring and Control Architecture. , 2018, , .		2
59	A Data-Driven Process Monitoring Approach with Disturbance Decoupling. , 2018, , .		6
60	A Data-Driven Fault Detection Approach for Periodic Rectangular Wave Disturbance. , 2018, , .		2
61	A Locally Weighted Project Regression Approach-Aided Nonlinear Constrained Tracking Control. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5870-5879.	11.3	17
62	Data-Driven Monitoring and Safety Control of Industrial Cyber-Physical Systems: Basics and Beyond. IEEE Access, 2018, 6, 47374-47384.	4.2	205
63	Adaptive Fault-Tolerant Control for Nonlinear System With Unknown Control Directions Based on Fuzzy Approximation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1909-1918.	9.3	98
64	Coordination Task Triggered Formation Control Algorithm for Multiple Marine Vessels. IEEE Transactions on Industrial Electronics, 2017, 64, 4984-4993.	7.9	48
65	An Adaptive NN-Based Approach for Fault-Tolerant Control of Nonlinear Time-Varying Delay Systems With Unmodeled Dynamics. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1902-1913.	11.3	130
66	Fault Detection for Nonlinear Process With Deterministic Disturbances: A Just-In-Time Learning Based Data Driven Method. IEEE Transactions on Cybernetics, 2017, 47, 3649-3657.	9.5	118
67	Guest Editorial A Look Into the Past and a Perspective on the Future. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1-2.	5.8	8
68	Sliding Mode Observer-Based FTC for Markovian Jump Systems With Actuator and Sensor Faults. IEEE Transactions on Automatic Control, 2017, 62, 3551-3558.	5.7	208
69	Sliding Mode Control Made Smarter: A Computational Intelligence Perspective. IEEE Systems, Man, and Cybernetics Magazine, 2017, 3, 31-34.	1.4	21
70	Industrial Cyberphysical Systems: A Backbone of the Fourth Industrial Revolution. IEEE Industrial Electronics Magazine, 2017, 11, 6-16.	2.6	275
71	A Line-Based-Clustering Approach for Ball Grid Array Component Inspection in Surface-Mount Technology. IEEE Transactions on Industrial Electronics, 2017, 64, 3030-3038.	7.9	33
72	Descriptor reduced-order sliding mode observers design for switched systems with sensor and actuator faults. Automatica, 2017, 76, 282-292.	5.0	255

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73	Adaptive configuration technique for decentralized plug-and-play process monitoring system. , 2017, , .		1
74	Rough Deep Neural Architecture for Short-Term Wind Speed Forecasting. IEEE Transactions on Industrial Informatics, 2017, 13, 2770-2779.	11.3	241
75	Sliding Mode Control and Observation for Complex Industrial Systemsâ€™Part I. IEEE Transactions on Industrial Electronics, 2017, 64, 6680-6683.	7.9	11
76	The entanglement of control and IT in 21<sup>st</sup> century: Intelligent systems. , 2017, , .		0
77	Attitude Stabilization Control of Flexible Satellites With High Accuracy: An Estimator-Based Approach. IEEE/ASME Transactions on Mechatronics, 2017, 22, 349-358.	5.8	55
78	Improving the Speed of Center of Sets Type Reduction in Interval Type-2 Fuzzy Systems by Eliminating the Need for Sorting. IEEE Transactions on Fuzzy Systems, 2017, 25, 1193-1206.	9.8	33
79	A Data-Driven Fuzzy Information Granulation Approach for Freight Volume Forecasting. IEEE Transactions on Industrial Electronics, 2017, 64, 1447-1456.	7.9	59
80	Observer-based control for robotic manipulations with uncertain kinematics and dynamics. , 2016, , .		0
81	PCA and KPCA integrated Support Vector Machine for multi-fault classification. , 2016, , .		9
82	Tracking Control of Robotic Manipulators With Uncertain Kinematics and Dynamics. IEEE Transactions on Industrial Electronics, 2016, 63, 6439-6449.	7.9	216
83	Observer-based method for synchronization of uncertain fractional order chaotic systems by the use of a general type-2 fuzzy system. Applied Soft Computing Journal, 2016, 49, 544-560.	7.2	36
84	Wheel slip regulation using fuzzy spiking neural networks. , 2016, , .		0
85	Recurrent interval type-2 neuro-fuzzy control of an electro hydraulic servo system. , 2016, , .		4
86	Industrial Cyberâ€™Physical Systems [Scanning the Issue]. Proceedings of the IEEE, 2016, 104, 899-903.	21.3	21
87	Transient-Performance-Guaranteed Robust Adaptive Control and Its Application to Precision Motion Control Systems. IEEE Transactions on Industrial Electronics, 2016, 63, 6510-6518.	7.9	123
88	Robust $H_{\infty}$ -Based Synchronization of the Fractional-Order Chaotic Systems by Using New Self-Evolving Nonsingleton Type-2 Fuzzy Neural Networks. IEEE Transactions on Fuzzy Systems, 2016, 24, 1544-1554.	9.8	49
89	A data-based KPI prediction approach for wastewater treatment processes. , 2015, , .		1
90	Fusion of Computational Intelligence Techniques and Their Practical Applications. Computational Intelligence and Neuroscience, 2015, 2015, 1-3.	1.7	5

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91	Robust adaptive control of non-linear time-delay systems with saturation constraints. IET Control Theory and Applications, 2015, 9, 103-113.	2.1	19
92	H control of stochastic switched nonlinear systems with average dwell time. , 2015, , .		0
93	Optimal sliding mode type-2 TSK fuzzy control of a 2-DOF helicopter. , 2015, , .		9
94	Direct Model Reference Adaptive Fuzzy Control of Networked SISO Nonlinear Systems. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1.	5.8	19
95	Fuzzy Interval TSK Type-2 Modeling with Parameterized Conjunctors. Asian Journal of Control, 2015, 17, 963-976.	3.0	2
96	Feedback Error Learning Control of Magnetic Satellites Using Type-2 Fuzzy Neural Networks With Elliptic Membership Functions. IEEE Transactions on Cybernetics, 2015, 45, 858-868.	9.5	47
97	Adaptive Indirect Fuzzy Sliding Mode Controller for Networked Control Systems Subject to Time-Varying Network-Induced Time Delay. IEEE Transactions on Fuzzy Systems, 2015, 23, 205-214.	9.8	128
98	Nonlinear Robust Attitude Tracking Control of a Table-Mount Experimental Helicopter Using Output Feedback. IEEE Transactions on Industrial Electronics, 2015, 62, 5665-5676.	7.9	42
99	Data-Driven Control and Process Monitoring for Industrial Applications" Part II. IEEE Transactions on Industrial Electronics, 2015, 62, 583-586.	7.9	49
100	Big Data for Modern Industry: Challenges and Trends [Point of View]. Proceedings of the IEEE, 2015, 103, 143-146.	21.3	422
101	On-line Deflection Estimation of X-axis Beam on Positioning Machine. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1.	5.8	7
102	Vibration Isolation for Active Suspensions With Performance Constraints and Actuator Saturation. IEEE/ASME Transactions on Mechatronics, 2015, 20, 675-683.	5.8	220
103	Towards Agrobots: Trajectory Control of an Autonomous Tractor Using Type-2 Fuzzy Logic Controllers. IEEE/ASME Transactions on Mechatronics, 2015, 20, 287-298.	5.8	83
104	Data-Based Techniques Focused on Modern Industry: An Overview. IEEE Transactions on Industrial Electronics, 2015, 62, 657-667.	7.9	822
105	Control of a direct drive robot using fuzzy spiking neural networks with variable structure systems-based learning algorithm. Neurocomputing, 2015, 149, 690-699.	5.9	20
106	Improved PLS Focused on Key-Performance-Indicator-Related Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2015, 62, 1651-1658.	7.9	472
107	An Investigation into Soft Error Detection Efficiency at Operating System Level. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	4
108	An LWPR-Based Data-Driven Fault Detection Approach for Nonlinear Process Monitoring. IEEE Transactions on Industrial Informatics, 2014, 10, 2016-2023.	11.3	97

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109	Improved Karnik-Mendel algorithm: Eliminating the need for sorting. , 2014, , .		4
110	A novel unmanned aerial surveillance scheme. , 2014, , .		1
111	Software-Based Control Flow Checking Against Transient Faults in Industrial Environments. IEEE Transactions on Industrial Informatics, 2014, 10, 481-490.	11.3	35
112	Trajectory tracking of a 2-DOF helicopter system using neuro-fuzzy system with parameterized conjunctors. , 2014, , .		22
113	Robust Model Predictive Control Under Saturations and Packet Dropouts With Application to Networked Flotation Processes. IEEE Transactions on Automation Science and Engineering, 2014, 11, 1056-1064.	5.2	36
114	Data-Driven Control and Process Monitoring for Industrial Applicationsâ€™Part I. IEEE Transactions on Industrial Electronics, 2014, 61, 6356-6359.	7.9	68
115	Two-mode Indirect Adaptive Control Approach for the Synchronization of Uncertain Chaotic Systems by the Use of a Hierarchical Interval Type-2 Fuzzy Neural Network. IEEE Transactions on Fuzzy Systems, 2014, 22, 1301-1312.	9.8	39
116	On Deployment of Wireless Sensors on 3-D Terrains to Maximize Sensing Coverage by Utilizing Cat Swarm Optimization With Wavelet Transform. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 111-120.	9.3	91
117	Variable-structure-systems based approach for online learning of spiking neural networks and its experimental evaluation. Journal of the Franklin Institute, 2014, 351, 3269-3285.	3.4	10
118	Network-Induced Constraints in Networked Control Systemsâ€™A Survey. IEEE Transactions on Industrial Informatics, 2013, 9, 403-416.	11.3	915
119	Guest Editorial Focused Section on Aerospace Mechatronics. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1233-1236.	5.8	1
120	Asymptotic stability and stabilisation of uncertain delta operator systems with timeâ€™varying delays. IET Control Theory and Applications, 2013, 7, 1071-1078.	2.1	79
121	Nonlinear function approximation based on fuzzy algorithms with parameterized conjunctors. , 2013, , .		1
122	A type-2 fuzzy wavelet neural network for system identification and control. Journal of the Franklin Institute, 2013, 350, 1658-1685.	3.4	50
123	Spiking Neural Networks for the control of a servo system. , 2013, , .		5
124	Optimal Selection of Parameters for Nonuniform Embedding of Chaotic Time Series Using Ant Colony Optimization. IEEE Transactions on Cybernetics, 2013, 43, 790-802.	9.5	60
125	Adaptive Backstepping Control for Active Suspension Systems With Hard Constraints. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1072-1079.	5.8	365
126	control of switched delayed systems with average dwell time. International Journal of Control, 2013, 86, 2146-2158.	1.9	26



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127	Observer-based indirect model reference fuzzy control system with application to control of chaotic systems. Journal of the Franklin Institute, 2013, 350, 419-436.	3.4	10
128	Sliding mode online learning algorithm for type-2 fuzzy CMAC networks. , 2013, , .		1
129	Guest Editorial Advances in Theories and Industrial Applications of Networked Control Systems. IEEE Transactions on Industrial Informatics, 2013, 9, 303-305.	11.3	6
130	Sliding mode type-2 fuzzy control of robotic arm using ellipsoidal membership functions. , 2013, , .		1
131	Control of Antilock Braking System using Spiking Neural Networks. , 2013, , .		1
132	Stabilization of uncertain discrete time-delayed systems via delta operator approach. , 2013, , .		5
133	AN EFFECTIVE CONTROL FLOW CHECKING METHOD FOR MULTITASK PROCESSING IN HARSH ENVIRONMENTS. Journal of Circuits, Systems and Computers, 2013, 22, 1350067.	1.5	1
134	Stabilizing multiple sliding surface control of quad-rotor rotorcraft. , 2013, , .		2
135	Guest Editorial Special Section on Soft Computing in Industrial Informatics. IEEE Transactions on Industrial Informatics, 2012, 8, 731-732.	11.3	0
136	Spiking neural networks for identification and control of dynamic plants. , 2012, , .		8
137	Intelligent control of a tractor-implement system using type-2 fuzzy neural networks. , 2012, , .		10
138	Slip control of a quarter car model based on type-1 fuzzy neural system with parameterized conjunctions. , 2012, , .		3
139	Statistical results to show the superiority of type two fuzzy logic systems over type one counterparts under noisy conditions. , 2012, , .		3
140	Extended Kalman Filter Based Learning Algorithm for Type-2 Fuzzy Logic Systems and Its Experimental Evaluation. IEEE Transactions on Industrial Electronics, 2012, 59, 4443-4455.	7.9	124
141	On pinning impulsive control of complex dynamical networks. , 2012, , .		0
142	Sliding mode incremental learning algorithm for interval type-2 Takagiâ€“Sugenoâ€“Kang fuzzy neural networks. Evolving Systems, 2012, 3, 179-188.	3.9	21
143	Optimizing RFID Network Planning by Using a Particle Swarm Optimization Algorithm With Redundant Reader Elimination. IEEE Transactions on Industrial Informatics, 2012, 8, 900-912.	11.3	114
144	Sliding mode control theoryâ€“based algorithm for online learning in typeâ€“2 fuzzy neural networks: application to velocity control of an electro hydraulic servo system. International Journal of Adaptive Control and Signal Processing, 2012, 26, 645-659.	4.1	30

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145	Control and synchronization of chaotic systems using a novel indirect model reference fuzzy controller. <i>Soft Computing</i> , 2012, 16, 1253-1265.	3.6	21
146	Sliding Mode Control Approach for Online Learning as Applied to Type-2 Fuzzy Neural Networks and Its Experimental Evaluation. <i>IEEE Transactions on Industrial Electronics</i> , 2012, 59, 3510-3520.	7.9	67
147	Comparative Results on Stabilization of the Quad-rotor Rotorcraft Using Bounded Feedback Controllers. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012, 65, 389-408.	3.4	20
148	A novel training method based on variable structure systems theory for fuzzy neural networks. , 2011, , .		3
149	Experimental evaluation of a type-2 fuzzy control algorithm on an Anti-Lock Braking System. , 2011, , .		1
150	Design of a fuzzy variable structure controller for controlling satellite attitude suffering from sensor data delay. , 2011, , .		5
151	A novel training method based on variable structure systems approach for interval type-2 fuzzy neural networks. , 2011, , .		8
152	Levenberg marquardt algorithm for the training of type-2 fuzzy neuro systems with a novel type-2 fuzzy membership function. , 2011, , .		20
153	Finite Frequency $H_{\infty}$ Control for Vehicle Active Suspension Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2011, 19, 416-422.	5.2	370
154	Analysis of the Noise Reduction Property of Type-2 Fuzzy Logic Systems Using a Novel Type-2 Membership Function. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011, 41, 1395-1406.	5.0	81
155	Looking Back at 60 Years of IES [Historical]. <i>IEEE Industrial Electronics Magazine</i> , 2011, 5, 64-68.	2.6	2
156	Direct Model Reference Takagi-Sugeno Fuzzy Control of SISO Nonlinear Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2011, 19, 914-924.	9.8	54
157	A servo system control with time-varying and nonlinear load conditions using type-2 TSK fuzzy neural system. <i>Applied Soft Computing Journal</i> , 2011, 11, 5735-5744.	7.2	43
158	Fuzzy Logic Based Approach to Design of Autonomous Landing System for Unmanned Aerial Vehicles. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2011, 61, 239-250.	3.4	17
159	A type-2 neuro-fuzzy system based on clustering and gradient techniques applied to system identification and channel equalization. <i>Applied Soft Computing Journal</i> , 2011, 11, 1396-1406.	7.2	85
160	Single-step ahead prediction based on the principle of concatenation using grey predictors. <i>Expert Systems With Applications</i> , 2011, 38, 9499-9505.	7.6	20
161	Neuro-fuzzy control of antilock braking system using sliding mode incremental learning algorithm. <i>Neurocomputing</i> , 2011, 74, 1883-1893.	5.9	61
162	Potential field-based navigation task for autonomous flight control of unmanned aerial vehicles. <i>International Journal of Automation and Control</i> , 2011, 5, 1.	0.5	13

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163	An Extended Sliding Mode Learning Algorithm for Type-2 Fuzzy Neural Networks. Lecture Notes in Computer Science, 2011, , 52-63.	1.3	3
164	Neuro-adaptive Approach for Controlling a Quad-rotor Helicopter Using Sliding Mode Learning Algorithm. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 94-99.	0.4	1
165	FUZZY LOGIC BASED AUTONOMOUS LANDING SYSTEM FOR UNMANNED AERIAL VEHICLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 63-70.	0.4	0
166	Adaptive neuro-fuzzy inference system based autonomous flight control of unmanned air vehicles. Expert Systems With Applications, 2010, 37, 1229-1234.	7.6	186
167	Grey system theory-based models in time series prediction. Expert Systems With Applications, 2010, 37, 1784-1789.	7.6	662
168	Design of an adaptive interval type-2 fuzzy logic controller for the position control of a servo system with an intelligent sensor. , 2010, , .		18
169	Identification of interval fuzzy models using recursive least square method. , 2010, , .		1
170	An adaptive neuro-fuzzy architecture for intelligent control of a servo system and its experimental evaluation. , 2010, , .		4
171	Type 2 Fuzzy Neural Structure for Identification and Control of Time-Varying Plants. IEEE Transactions on Industrial Electronics, 2010, 57, 4147-4159.	7.9	186
172	A novel type-2 fuzzy membership function: application to the prediction of noisy data. , 2010, , .		35
173	An Efficient Ant Colony System Based on Receding Horizon Control for the Aircraft Arrival Sequencing and Scheduling Problem. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 399-412.	8.0	129
174	Error modification of grey models using principle of concatenation. , 2010, , .		0
175	A servo system control with time-varying load using type-2 fuzzy neural system. , 2010, , .		0
176	Fuzzy Logic Based Approach to Design of Autonomous Landing System for Unmanned Aerial Vehicles. , 2010, , 239-250.		2
177	Trajectory control of unmanned aerial vehicle using neural nets with a stable learning algorithm. , 2009, , .		5
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