

Hojun Kim

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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.

137
papers

2,347
citations

22
h-index

44
g-index

201
ext. papers

2,902
ext. citations

3
avg. IF

5.28
L-index

#	Paper	IF	Citations
137	Robust fuzzy control of nonlinear systems with parametric uncertainties. <i>IEEE Transactions on Fuzzy Systems</i> , 2001 , 9, 369-379	8.3	291
136	Adaptive Dynamic Surface Control for Stabilization of Parametric Strict-Feedback Nonlinear Systems With Unknown Time Delays. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 2360-2365	5.9	220
135	Adaptive Neural Sliding Mode Control of Nonholonomic Wheeled Mobile Robots With Model Uncertainty. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 207-214	4.8	176
134	A Simple Adaptive Control Approach for Trajectory Tracking of Electrically Driven Nonholonomic Mobile Robots. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 1199-1206	4.8	156
133	Complete coverage navigation of cleaning robots using triangular-cell-based map. <i>IEEE Transactions on Industrial Electronics</i> , 2004 , 51, 718-726	8.9	90
132	Generalized predictive control based on self-recurrent wavelet neural network for stable path tracking of mobile robots: adaptive learning rates approach. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 1381-1394		86
131	A new intelligent digital redesign for T-S fuzzy systems: global approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2004 , 12, 274-284	8.3	76
130	Decentralized Fuzzy Observer-Based Output-Feedback Control for Nonlinear Large-Scale Systems: An LMI Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 406-419	8.3	63
129	Leaderless and leader-following consensus for heterogeneous multi-agent systems with random link failures. <i>IET Control Theory and Applications</i> , 2014 , 8, 51-60	2.5	53
128	Detection and Location of Multiple Wiring Faults via Time-Frequency-Domain Reflectometry. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2009 , 51, 131-138	2	51
127	Design of sampled-data fuzzy-model-based control systems by using intelligent digital redesign. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2002 , 49, 509-517		45
126	GA-based intelligent digital redesign of fuzzy-model-based controllers. <i>IEEE Transactions on Fuzzy Systems</i> , 2003 , 11, 35-44	8.3	40
125	Stability and stabilization for discrete-time Markovian jump fuzzy systems with time-varying delays: Partially known transition probabilities case. <i>International Journal of Control, Automation and Systems</i> , 2013 , 11, 136-146	2.9	36
124	Improvement on Nonquadratic Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems: Multiple-Parameterization Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2010 ,	8.3	33
123	A Fuzzy Lyapunov-Brasovskii Functional Approach to Sampled-Data Output-Feedback Stabilization of Polynomial Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 366-373	8.3	31
122	Robust Least Squares Approach to Passive Target Localization Using Ultrasonic Receiver Array. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 1993-2002	8.9	30
121	Further refinement on LMI-based digital redesign: delta-operator approach. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2006 , 53, 473-477		25

120	Robust observer-based fuzzy control for variable speed wind power system: LMI approach. <i>International Journal of Control, Automation and Systems</i> , 2011 , 9, 1103-1110	2.9	24
119	Decentralized Sampled-Data Fuzzy Observer Design for Nonlinear Interconnected Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 661-674	8.3	22
118	Wire Mismatch Detection Using a Convolutional Neural Network and Fault Localization Based on Time-Frequency-Domain Reflectometry. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 2102-2110	8.9	22
117	Intelligent digital redesign for nonlinear systems using a guaranteed cost control method. <i>International Journal of Control, Automation and Systems</i> , 2013 , 11, 1075-1083	2.9	22
116	Anticontrol of chaos for discrete TS fuzzy systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2002 , 49, 249-253		22
115	Robust H _∞ control for uncertain nonlinear active magnetic bearing systems via Takagi-Sugeno fuzzy models. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 636-646	2.9	21
114	GENERATING CHAOS VIA FEEDBACK CONTROL FROM A STABLE TS FUZZY SYSTEM THROUGH A SINUSOIDAL NONLINEARITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2002 , 12, 2283-2291	2	21
113	Disturbance observer-based integral fuzzy sliding-mode control and its application to wind turbine system. <i>IET Control Theory and Applications</i> , 2019 , 13, 1891-1900	2.5	20
112	Robust formation control of electrically driven nonholonomic mobile robots via sliding mode technique. <i>International Journal of Control, Automation and Systems</i> , 2011 , 9, 888-894	2.9	19
111	Practical Pinch Detection Algorithm for Smart Automotive Power Window Control Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 1376-1384	8.9	19
110	Real-Time Condition Monitoring of LOCA via Time-Frequency Domain Reflectometry. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 1864-1873	5.2	18
109	Dual-Fingered Stable Grasping Control for an Optimal Force Angle. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 256-262	6.5	18
108	Guaranteed cost sampled-data fuzzy control for non-linear systems: a continuous-time Lyapunov approach. <i>IET Control Theory and Applications</i> , 2013 , 7, 1745-1752	2.5	17
107	Robust fuzzy controller for large-scale nonlinear systems using decentralized static output-feedback. <i>International Journal of Control, Automation and Systems</i> , 2011 , 9, 649-658	2.9	17
106	Intelligent digital redesign for non-linear systems: observer-based sampled-data fuzzy control approach. <i>IET Control Theory and Applications</i> , 2016 , 10, 1-9	2.5	16
105	Decentralized Sampled-Data Tracking Control of Large-Scale Fuzzy Systems: An Exact Discretization Approach. <i>IEEE Access</i> , 2017 , 5, 12668-12681	3.5	16
104	Robust digital implementation of fuzzy control for uncertain systems and its application to active magnetic bearing system. <i>International Journal of Control, Automation and Systems</i> , 2012 , 10, 603-612	2.9	16
103	Observer-based sampled-data control for nonlinear systems: Robust intelligent digital redesign approach. <i>International Journal of Control, Automation and Systems</i> , 2014 , 12, 486-496	2.9	15

102	Cable Fault Localization Using Instantaneous Frequency Estimation in Gaussian-Enveloped Linear Chirp Reflectometry. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 129-139	5.2	15
101	Decentralized H_{∞} Sampled-Data Fuzzy Filter for Nonlinear Interconnected Oscillating Systems With Uncertain Interconnections. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 487-498	8.3	15
100	Towards a Meaningful 3D Map Using a 3D Lidar and a Camera. <i>Sensors</i> , 2018 , 18,	3.8	15
99	Condition Monitoring of Instrumentation Cable Splices Using Kalman Filtering. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015 , 64, 3490-3499	5.2	13
98	Adaptive observer-based trajectory tracking control of nonholonomic mobile robots. <i>International Journal of Control, Automation and Systems</i> , 2011 , 9, 534-541	2.9	13
97	An online fault tolerant actor-critic neuro-control for a class of nonlinear systems using neural network HJB approach. <i>International Journal of Control, Automation and Systems</i> , 2015 , 13, 311-318	2.9	12
96	Decentralised H_{∞} Fuzzy filter for non-linear large-scale systems under imperfect premise matching. <i>IET Control Theory and Applications</i> , 2015 , 9, 2704-2714	2.5	12
95	Reinforcement Q-learning based on Multirate Generalized Policy Iteration and Its Application to a 2-DOF Helicopter. <i>International Journal of Control, Automation and Systems</i> , 2018 , 16, 377-386	2.9	12
94	Decentralised sampled-data control for large-scale systems with nonlinear interconnections. <i>International Journal of Control</i> , 2016 , 89, 1951-1961	1.5	12
93	Backstepping Based Formation Control of Quadrotors with the State Transformation Technique. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1170	2.6	11
92	Input-delay approach to sampled-data control of polynomial systems based on a sum-of-square analysis. <i>IET Control Theory and Applications</i> , 2017 , 11, 1474-1484	2.5	10
91	Sampled-data Control of Fuzzy Systems Based on the Intelligent Digital Redesign Technique: An Input-delay Approach. <i>International Journal of Control, Automation and Systems</i> , 2018 , 16, 327-334	2.9	9
90	Fuzzy-model-based sampled-data chaotic synchronisation under the input constraints consideration. <i>IET Control Theory and Applications</i> , 2019 , 13, 288-296	2.5	9
89	Multiple Chirp Reflectometry for Determination of Fault Direction and Localization in Live Branched Network Cables. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 2606-2614	5.2	9
88	LMI condition for sampled-data fuzzy control of nonlinear systems. <i>Electronics Letters</i> , 2015 , 51, 29-31	1.1	9
87	Intelligent unmanned anti-theft system using network camera. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 967-974	2.9	9
86	Reduction of the blind spot in the time-frequency domain reflectometry. <i>IEICE Electronics Express</i> , 2008 , 5, 265-270	0.5	9
85	Segmentalized FCM-based tracking algorithm for zigzag maneuvering target. <i>International Journal of Control, Automation and Systems</i> , 2015 , 13, 231-237	2.9	8

84	Linear recursive passive target tracking filter for cooperative sea-skimming anti-ship missiles. <i>IET Radar, Sonar and Navigation</i> , 2014 , 8, 805-814	1.4	8
83	Fuzzy c-means clustering-based smart tracking model for three-dimensional manoeuvring target including unknown acceleration input. <i>IET Radar, Sonar and Navigation</i> , 2013 , 7, 623-634	1.4	8
82	A Less Conservative LMI Condition for Robust \mathcal{D} -Stability of Polynomial Matrix Polytopes: A Projection Approach. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 868-873	5.9	8
81	Adaptive dynamic surface control for disturbance attenuation of nonlinear systems. <i>International Journal of Control, Automation and Systems</i> , 2009 , 7, 882-887	2.9	8
80	fuzzy filter for non-linear sampled-data systems under imperfect premise matching. <i>IET Control Theory and Applications</i> , 2017 , 11, 747-755	2.5	7
79	Sampled-data control of fuzzy systems based on the intelligent digital redesign method via an improved fuzzy Lyapunov functional approach. <i>IET Control Theory and Applications</i> , 2018 , 12, 163-173	2.5	7
78	A Systematic Approach to Fuzzy-model-based Robust (H_∞) Control Design for a Quadrotor UAV Under Imperfect Premise Matching. <i>International Journal of Fuzzy Systems</i> , 2017 , 19, 1227-1237	3.6	7
77	An improved artificial potential field method with a new point of attractive force for a mobile robot 2017 ,		7
76	Inverse Optimal Design for Position Control of a Quadrotor. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 907	2.6	7
75	Adaptive control for input-constrained linear systems. <i>International Journal of Control, Automation and Systems</i> , 2012 , 10, 890-896	2.9	7
74	Local H_2 controller design for continuous-time T-S fuzzy systems. <i>International Journal of Control, Automation and Systems</i> , 2015 , 13, 1499-1507	2.9	6
73	Depth sensor and DVL-aided vertical channel damping loop design for underwater vehicles. <i>Electronics Letters</i> , 2015 , 51, 1763-1765	1.1	6
72	Intelligent digital redesign of fuzzy controller for non-linear systems with packet losses. <i>IET Control Theory and Applications</i> , 2016 , 10, 292-299	2.5	6
71	Intelligent digital redesign for T-S fuzzy systems: sampled-data filter approach. <i>IET Control Theory and Applications</i> , 2018 , 12, 1306-1317	2.5	6
70	Analysis of mobile robot navigation using vector field histogram according to the number of sectors, the robot speed and the width of the path 2014 ,		6
69	Impedance change localization for live underground cable using time-frequency domain reflectometry. <i>IEICE Electronics Express</i> , 2012 , 9, 359-364	0.5	6
68	Diagnostic method for insulated power cables based on wavelet energy. <i>IEICE Electronics Express</i> , 2013 , 10, 20130335-20130335	0.5	6
67	Selection of coefficient for equalizer in optical disc drive by golden section search. <i>IEEE Transactions on Consumer Electronics</i> , 2010 , 56, 657-662	4.8	6

66	A novel generalized value iteration scheme for uncertain continuous-time linear systems 2010 ,		6
65	Suggest a format for intelligence control and structure of holographic data storage system. <i>Microsystem Technologies</i> , 2007 , 13, 1153-1160	1.7	6
64	Design of H ₂ Controllers for Sampled-Data Systems with Input Time Delays. <i>Real-Time Systems</i> , 2004 , 26, 231-260	1.3	6
63	Relaxed stability conditions for the Takagi-Sugeno fuzzy system using a polynomial non-quadratic Lyapunov function. <i>IET Control Theory and Applications</i> , 2016 , 10, 1590-1599	2.5	6
62	Decentralised control for large-scale sampled-data systems: digital redesign approach. <i>International Journal of Control</i> , 2015 , 88, 2181-2193	1.5	5
61	Intelligent Digital Redesign for Sampled-data Fuzzy Control Systems Based on State-matching Error Cost Function Approach. <i>International Journal of Control, Automation and Systems</i> , 2018 , 16, 350-359	2.9	5
60	Stability and monotone convergence of generalised policy iteration for discrete-time linear quadratic regulations. <i>International Journal of Control</i> , 2016 , 89, 437-450	1.5	5
59	l ₁ -Fuzzy filter design for nonlinear systems with missing measurements: Fuzzy basis-dependent Lyapunov function approach. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 425-434	2.9	5
58	Blind spot reduction in wavelet transform-based time-frequency domain reflectometry using Gaussian chirp as mother wavelet. <i>IET Signal Processing</i> , 2014 , 8, 703-709	1.7	5
57	Pattern analysis for tilt servo control in holographic data storage system. <i>Microsystem Technologies</i> , 2012 , 18, 1677-1692	1.7	5
56	Integral reinforcement learning with explorations for continuous-time nonlinear systems 2012 ,		5
55	Compensated robust least-squares estimator for target localisation in sensor network using time difference of arrival measurements. <i>IET Signal Processing</i> , 2013 , 7, 664-673	1.7	5
54	Sampled-Data H_{∞} Fuzzy Observer for Uncertain Oscillating Systems With Immeasurable Premise Variables. <i>IEEE Access</i> , 2018 , 6, 58075-58085	3.5	5
53	Lane-Level Map-Matching Method for Vehicle Localization Using GPS and Camera on a High-Definition Map. <i>Sensors</i> , 2020 , 20,	3.8	4
52	Adaptive dynamic programming for discrete-time linear quadratic regulation based on multirate generalised policy iteration. <i>International Journal of Control</i> , 2018 , 91, 1223-1240	1.5	4
51	Less conservative robust stabilization conditions for the uncertain polynomial fuzzy system under perfect and imperfect premise matching. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 1588-1598	2.9	4
50	High resolution LFM CW radar system using model-based beat frequency estimation in cable fault localization. <i>IEICE Electronics Express</i> , 2014 , 11, 20130768-20130768	0.5	4
49	TDOA/FDOA based target tracking with imperfect position and velocity data of distributed moving sensors. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 1155-1166	2.9	4

48	Further relaxed stability conditions for continuous-time polynomial fuzzy system based on polynomial fuzzy Lyapunov function 2012 ,		4
47	LFuzzy filter for non-linear systems with intermittent measurement and persistent bounded disturbances. <i>IET Radar, Sonar and Navigation</i> , 2013 , 7, 489-496	1.4	4
46	New multiplexing method of holographic data storage system. <i>Microsystem Technologies</i> , 2009 , 15, 1753-1761	1.7	4
45	Digital controller design for fuzzy systems with packet loss: Intelligent digital redesign approach 2011 ,		4
44	A sensorless safety power window control system in automotive application 2008 ,		4
43	Application of time-frequency domain reflectometry for measuring load impedance. <i>IEICE Electronics Express</i> , 2008 , 5, 107-113	0.5	4
42	Gaussian mixture approach to decision making for automotive collision warning systems. <i>International Journal of Control, Automation and Systems</i> , 2015 , 13, 1182-1192	2.9	3
41	Robust fuzzy control for a hybrid magnetic bearings: the relaxed stabilization condition approach. <i>Nonlinear Dynamics</i> , 2016 , 85, 2487-2496	5	3
40	Fuzzy c-means-based intelligent tracking algorithm for an underwater manoeuvring target. <i>IET Radar, Sonar and Navigation</i> , 2014 , 8, 1042-1050	1.4	3
39	Adaptive tracking control of nonholonomic mobile robots considering actuator dynamics: Dynamic surface design approach 2009 ,		3
38	Model-free approximate dynamic programming for continuous-time linear systems 2009 ,		3
37	Policy-iteration-based adaptive optimal control for uncertain continuous-time linear systems with excitation signals 2010 ,		3
36	Load Impedance Measurement on a Coaxial Cable via Time-Frequency Domain Reflectometry 2006 ,		3
35	FIR-type state-feedback control law for discrete-time LTI systems with polytopic uncertainties. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 906-914	2.9	3
34	Fuzzy filter for nonlinear sampled-data systems: Intelligent digital redesign approach. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 603-610	2.9	2
33	Modeling and Simulation of a Wave Energy Converter INWAVE. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 99	2.6	2
32	The study on tracking algorithm for the underwater target: Applying to noise limited bi-static sonar model 2013 ,		2
31	Grasping control of 3-joint dual finger robot: Lyapunov stability approach 2009 ,		2

30	Real-time pinch detection algorithm: Robust to impulsive noise. <i>International Journal of Control, Automation and Systems</i> , 2009 , 7, 185-192	2.9	2
29	ANTICONTROL OF CHAOS FOR A CONTINUOUS-TIME TAKAGIBUGENO FUZZY SYSTEM VIA LOCAL TIME-DELAY FEEDBACK. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005 , 15, 3883-3894	2	2
28	Target Localization Using Instrumental Variable Method in Sensor Network. <i>IEICE Transactions on Communications</i> , 2013 , E96.B, 1202-1210	0.5	2
27	Stability Analysis and Fuzzy Control for Markovian Jump Nonlinear Systems with Partially Unknown Transition Probabilities. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2014 , E97.A, 587-596	0.4	2
26	An Enhanced Map-Matching Algorithm for Real-Time Position Accuracy Improvement with a Low-Cost GPS Receiver. <i>Sensors</i> , 2018 , 18,	3.8	2
25	Integral temporal difference learning for continuous-time linear quadratic regulations. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 226-238	2.9	1
24	An improved H _∞ fuzzy filter for nonlinear sampled-data systems. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 1394-1404	2.9	1
23	Reducing conservativeness in stability conditions of affine fuzzy systems using fuzzy Lyapunov function 2013 ,		1
22	Output regulation of large-scale T-S fuzzy-model-based decentralized control systems with unknown interconnection terms 2017 ,		1
21	3D LiDAR-based point cloud map registration: Using spatial location of visual features 2017 ,		1
20	Numerical Modeling and 3D Investigation of INWAVE Device. <i>Sustainability</i> , 2017 , 9, 523	3.6	1
19	A new type of wave energy converter using under-water pressure oscillation 2012 ,		1
18	Asymptotic stability of digitally redesigned control systems. <i>International Journal of Control</i> , 2010 , 83, 2463-2470	1.5	1
17	State feedback fuzzy-model-based control for discrete-time markovian jump nonlinear systems with time-varying delays 2009 ,		1
16	Fast time-frequency domain reflectometry based on the AR coefficient estimation of a chirp signal 2009 ,		1
15	Path Tracking Control for Underactuated Autonomous Underwater Vehicles Using Approach Angle. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2012 , E95.A, 760-766	0.4	1
14	Further studies on stabilization conditions for discrete-time takagibugeno fuzzy systems 2009 ,		1
13	Stochastic observer based H _∞ control of networked systems with packet dropouts 2010 ,		1

12	Fitness landscape for simple genetic algorithms supplied with adequate superior order-1 building blocks. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 135-140	2.9	1
11	Closed-Form SINR Distributions for OFDMA Cellular System using Fixed Relays 2008 ,		1
10	Decentralized dynamic output feedback controller for nonlinear interconnected systems with time delay: Fuzzy logic approaches 2008 ,		1
9	Output Feedback Fuzzy Control for Uncertain Nonlinear Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2003 , 125, 521-530	1.6	1
8	Direct adaptive control using self recurrent wavelet neural network via adaptive learning rates for stable path tracking of mobile robots		1
7	Geometric joint probabilistic data association approach to ballistic missile warhead tracking using FMCW radar seeker. <i>IET Radar, Sonar and Navigation</i> , 2016 , 10, 1422-1430	1.4	1
6	CONTROL OF THE DIFFERENTIALLY FLAT LORENZ SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001 , 11, 1989-1996	2	0
5	UL e-ICIC Scheme Using SLP-ABS for Self-Organized Heterogeneous Cellular Networks. <i>IEEE Communications Letters</i> , 2015 , 19, 86-89	3.8	
4	Encoding selection for a class of fitness functions based on locus interdependency. <i>International Journal of Control, Automation and Systems</i> , 2015 , 13, 1277-1285	2.9	
3	Augmented instrumental variable method for position and heading estimation with RDOA measurements. <i>International Journal of Control, Automation and Systems</i> , 2012 , 10, 1077-1085	2.9	
2	Optical alignment algorithm using Hadamard transformation. <i>IEICE Electronics Express</i> , 2007 , 4, 504-509	0.5	
1	Consensus for Heterogeneous Uncertain Multi-Agent Systems with Jointly Connected Topology. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2016 , E99.A, 346-354	0.4	