Hung-Yuan Chung

List of Publications by Year
in descending order

		840776	940533
47 papers	478 citations	11 h-index	16 g-index
48 all docs	48 docs citations	48 times ranked	406 citing authors

#	Article	IF	Citations
1	The adaptive control of nonlinear systems using the Sugeno-type of fuzzy logic. IEEE Transactions on Fuzzy Systems, 1999, 7, 225-229.	9.8	109
2	A self-learning fuzzy logic controller using genetic algorithms with reinforcements. IEEE Transactions on Fuzzy Systems, 1997, 5, 460-467.	9.8	72
3	Indoor Intelligent Mobile Robot Localization Using Fuzzy Compensation and Kalman Filter to Fuse the Data of Gyroscope and Magnetometer. IEEE Transactions on Industrial Electronics, 2015, 62, 6436-6447.	7.9	63
4	A Covariance Controller Design Incorporating Optimal Estimation for Nonlinear Stochastic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1996, 118, 346-349.	1.6	26
5	Improving the compression and encryption of images using FPGA-based cryptosystems. Multimedia Tools and Applications, 2006, 28, 5-22.	3.9	24
6	The Scanning Data Collection Strategy for Enhancing the Quality of Electrical Impedance Tomography. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1193-1198.	4.7	20
7	Design and Implementation of a Novel System for Correcting Posture Through the Use of a Wearable Necklace Sensor. JMIR MHealth and UHealth, 2019, 7, e12293.	3.7	17
8	A study of H_∞ norm and variance-constrained design using dynamic output feedback for linear discrete systems. International Journal of Control, 1993, 57, 473-483.	1.9	15
9	Hand gesture recognition via image processing techniques and deep CNN. Journal of Intelligent and Fuzzy Systems, 2020, 39, 4405-4418.	1.4	15
10	A distributed energy monitoring network system based on data fusion via improved PSO. Measurement: Journal of the International Measurement Confederation, 2014, 55, 362-374.	5.0	13
11	Discrete <formula formulatype="inline"><tex>H_{2}/H_{infty}</tex></formula> Nonlinear Controller Design Based on Fuzzy Region Concept and Takagi&ndash;Sugeno Fuzzy Framework. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 2838-2848.	0.1	12
12	An intelligent service robot for transporting object. , 2013, , .		12
13	A fuzzy PID controller being like parameter varying PID. , 1999, , .		11
14	Automatic Navigation of a wheeled mobile robot using Particle Swarm Optimization and Fuzzy Control. , 2013, , .		10
15	Using ABC and RRT algorithms to improve mobile robot path planning with danger degree. , 2016, , .		8
16	Continuous blood pressure measurement system based on low cuff pressure approach. , 2007, , .		5
17	Speed-control of a PMSM based on Integral-Fuzzy control. , 2013, , .		5
18	A self-learning and tuning fuzzy logic controller based on genetic algorithms and reinforcements. International Journal of Intelligent Systems, 1997, 12, 673-694.	5.7	4

#	ARTICLE	IF	CITATIONS
19	Design of Takagi-Sugeno fuzzy-region controller based on fuzzy-region concept, rule reduction and robust control technique. , 0, , .		4
20	A CPG-inspired controller for a hexapod robot with adaptive walking. , 2014, , .		4
21	Agricultural monitoring system based on ant colony algorithm with centre data aggregation. IET Communications, 2014, 8, 1132-1140.	2.2	4
22	Face detection and posture recognition in a real time tracking system. , 2017, , .		4
23	Equation of SVM-rebalancing: the point-normal form of a plane for class imbalance problem. Neural Computing and Applications, 2019, 31, 6013-6025.	5.6	4
24	Design of Takagi-Sugeno Fuzzy Region Controller Based on Rule Reduction, Robust Control, and Switching Concept. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 163-170.	1.6	3
25	An Effective Hexapod Robot Control Design Based on a Fuzzy Neural Network and a Kalman Filter. , 2018, , .		3
26	Design the T-S fuzzy controller for a class of T-S fuzzy models via genetic algorithm. , 0, , .		2
27	Sliding Mode Control for Uncertain Time-Delay Systems with Sector Nonlinearities via Fuzzy Rule. , 0, , .		2
28	Innovation of visualized interactive tools for learning molecular simulation curriculum. Computer Applications in Engineering Education, 2010, 18, 28-40.	3.4	2
29	GA-based robust S-stability output feedback controller design algorithm with hierarchical fitness function structure. , 2003, , .		1
30	GA-based robust H/sub 2/ controller design approach for active suspension systems. , 0, , .		1
31	Decoupling Adaptive Fuzzy Sliding-Mode Control with Rule Reduction for Nonlinear System. , 2006, , .		1
32	Algorithm for obstacle classification and lane line identification using LRF sensors. , 2010, , .		1
33	Using ALC-PSO algorithm with particle growing method path planning in dynamic environments. , 2014, , .		1
34	Observability Gramian Assignment for Perturbed Linear Continuous Systems Using Output Feedback. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1992, 114, 522-524.	1.6	0
35	The interfacing technology of PC-based factory automation systems. , 0, , .		0
36	Design of Hybrid Neural Network Control for MIMO Systems. , 0, , .		0

#	Article	IF	Citations
37	Static Output Feedback Fuzzy Controller Design via a Mixed Approach for Regional T-S Fuzzy System. , 2006, , .		0
38	Drug Design using the Novel Directivity Genetic Algorithms and Lyapunov Stability Theorem to Decrease the Number of Binding Sites in Order to Enhance the Docking Performance. , 2007, , .		0
39	The Design of Contactless Conductivity Sensor for Biological Tissues. , 2007, , .		0
40	Pseudo electrodes driven patterns for electrical impedance tomography. , 2007, , .		0
41	Fuzzy rules reduction for discrete-time T-S fuzzy systems based on regional piecewise approach. , 2007, , .		0
42	Wheeled robot navigation and local-map building in unknown environments. , 2013, , .		0
43	Learn and self-examination algorithm. , 2013, , .		0
44	Multi-objects tracking based on HPSO-TVAC algorithm with searching window in real time. , 2014, , .		0
45	A study of visual behavior of multidimensional scaling for kernel perceptron algorithm. Neural Computing and Applications, 2015, 26, 679-691.	5.6	0
46	An Improved Algorithm for Single Image Haze Removal. , 2018, , .		0
47	The Scanning Data Collection Strategy for Enhancing the Quality of Electrical Impedance Tomography. IEEE Transactions on Instrumentation and Measurement, 2009, , .	4.7	0