

Kk Tan

List of Publications by Year in descending order

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86
papers

2,225
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201674

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86
docs citations

86
times ranked

1417
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust adaptive numerical compensation for friction and force ripple in permanent-magnet linear motors. IEEE Transactions on Magnetics, 2002, 38, 221-228.	2.1	211
2	Multistability of Discrete-Time Recurrent Neural Networks With Unsaturating Piecewise Linear Activation Functions. IEEE Transactions on Neural Networks, 2004, 15, 329-336.	4.2	111
3	Micro-positioning of linear-piezoelectric motors based on a learning nonlinear PID controller. IEEE/ASME Transactions on Mechatronics, 2001, 6, 428-436.	5.8	101
4	New interpolation method for quadrature encoder signals. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 1073-1079.	4.7	95
5	Adaptive motion control using neural network approximations. Automatica, 2002, 38, 227-233.	5.0	93
6	Adaptive feedforward compensation of force ripples in linear motors. Control Engineering Practice, 2005, 13, 1081-1092.	5.5	87
7	Adaptive friction compensation using neural network approximations. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2000, 30, 551-557.	2.9	82
8	Tool wear detection and fault diagnosis based on cutting force monitoring. International Journal of Machine Tools and Manufacture, 2007, 47, 444-451.	13.4	80
9	Online automatic tuning of a proportional integral derivative controller based on an iterative learning control approach. IET Control Theory and Applications, 2007, 1, 90-96.	2.1	77
10	Iterative learning control of permanent magnet linear motor with relay automatic tuning. Mechatronics, 2000, 10, 169-190.	3.3	74
11	Convergence Analysis of a Deterministic Discrete Time System of Oja's PCA Learning Algorithm. IEEE Transactions on Neural Networks, 2005, 16, 1318-1328.	4.2	72
12	Nonlinear Adaptive Control of Interconnected Systems Using Neural Networks. IEEE Transactions on Neural Networks, 2006, 17, 243-246.	4.2	66
13	Dynamic modeling and adaptive control of a H-type gantry stage. Mechatronics, 2007, 17, 361-367.	3.3	61
14	Further results on adaptive control for a class of nonlinear systems using neural networks. IEEE Transactions on Neural Networks, 2003, 14, 719-722.	4.2	59
15	Combined PID and adaptive nonlinear control for servo mechanical systems. Mechatronics, 2004, 14, 701-714.	3.3	50
16	Coordinated Motion Control of Moving Gantry Stages for Precision Applications Based on an Observer-Augmented Composite Controller. IEEE Transactions on Control Systems Technology, 2004, 12, 984-991.	5.2	44
17	Improved critical point estimation using a preload relay. Journal of Process Control, 2006, 16, 445-455.	3.3	40
18	Adaptive neural network algorithm for control design of rigid-link electrically driven robots. Neurocomputing, 2008, 71, 885-894.	5.9	38

#	ARTICLE	IF	CITATIONS
19	Development of a GPC-based PID controller for unstable systems with deadtime. ISA Transactions, 2000, 39, 57-70.	5.7	36
20	Adaptive robust motion control for precise trajectory tracking applications. ISA Transactions, 2001, 40, 57-71.	5.7	36
21	A combined PID/adaptive controller for a class of nonlinear systems. Automatica, 2001, 37, 611-618.	5.0	35
22	Force ripple suppression in iron-core permanent magnet linear motors using an adaptive dither. Journal of the Franklin Institute, 2004, 341, 375-390.	3.4	32
23	Geometrical error compensation of precision motion systems using radial basis function. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 984-991.	4.7	31
24	On-line relay identification, assessment and tuning of PID controller. Journal of Process Control, 2001, 11, 483-496.	3.3	30
25	A decentralized control of interconnected systems using neural networks. IEEE Transactions on Neural Networks, 2002, 13, 1554-1557.	4.2	30
26	Adaptive control of ram velocity for the injection moulding machine. IEEE Transactions on Control Systems Technology, 2001, 9, 663-671.	5.2	29
27	An Improvement on Stable Adaptive Control for a Class of Nonlinear Systems. IEEE Transactions on Automatic Control, 2004, 49, 1398-1403.	5.7	29
28	Predictive PI versus Smith control for dead-time compensation. ISA Transactions, 2001, 40, 17-29.	5.7	28
29	Necessary and sufficient condition for convergence of iterative learning algorithm. Automatica, 2002, 38, 1257-1260.	5.0	28
30	A modified relay-based technique for improved critical point estimation in process control. IEEE Transactions on Control Systems Technology, 1995, 3, 330-337.	5.2	27
31	Robust on-line relay automatic tuning of PID control systems. ISA Transactions, 2000, 39, 219-232.	5.7	27
32	Development of an integrated and open-architecture precision motion control system. Control Engineering Practice, 2002, 10, 757-772.	5.5	26
33	Learning-enhanced PI control of ram velocity in injection molding machines. Engineering Applications of Artificial Intelligence, 2002, 15, 65-72.	8.1	26
34	Optimal intra-cytoplasmic sperm injection with a piezo micromanipulator. , 0, , .		23
35	Adaptive GPC control of melt temperature in injection moulding. ISA Transactions, 1999, 38, 361-373.	5.7	21
36	Adaptive force ripple suppression in iron-core permanent magnet linear motors. , 0, , .		20

#	ARTICLE	IF	CITATIONS
37	Geometrical Error Modeling and Compensation Using Neural Networks. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 797-809.	2.9	19
38	Global convergence of Oja's PCA learning algorithm with a non-zero-approaching adaptive learning rate. Theoretical Computer Science, 2006, 367, 286-307.	0.9	19
39	Two-degree-of-freedom controller incorporating RBF adaptation for precision motion control applications. , 1999, , .		16
40	A discrete-time iterative learning algorithm for linear time-varying systems. Engineering Applications of Artificial Intelligence, 2003, 16, 185-190.	8.1	16
41	Neural-Network-Based Predictive Learning Control of Ram Velocity in Injection Molding. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2004, 34, 363-368.	2.9	16
42	Task-Oriented Developmental Learning for Humanoid Robots. IEEE Transactions on Industrial Electronics, 2005, 52, 906-914.	7.9	14
43	Disturbance compensation incorporated in predictive control system using a repetitive learning approach. Systems and Control Letters, 2007, 56, 75-82.	2.3	13
44	Convergence analysis of Xu's LMSER learning algorithm via deterministic discrete time system method. Neurocomputing, 2006, 70, 362-372.	5.9	12
45	Dynamic S-function for geometrical error compensation based on neural network approximations. Measurement: Journal of the International Measurement Confederation, 2003, 34, 143-156.	5.0	10
46	Neural network learning algorithm for a class of interconnected nonlinear systems. Neurocomputing, 2009, 72, 1071-1077.	5.9	10
47	Micro-positioning of linear piezoelectric motors based on a learning nonlinear PID controller. , 0, , .		9
48	Learning Enhanced Motion Control of Permanent Magnet Linear Motor. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 359-364.	0.4	8
49	Automatic Tuning of Two-Degree-of-Freedom Control for D.C. Servo Motor Systems. Intelligent Automation and Soft Computing, 2000, 6, 281-289.	2.1	8
50	Evolutionary tuning of a fuzzy dispatching system for automated guided vehicles. IEEE Transactions on Systems, Man, and Cybernetics, 2000, 30, 632-636.	5.0	8
51	Robust self-tuning PID controller for nonlinear systems. , 0, , .		7
52	Dynamic Modeling and Adaptive Control of a Multi-Axial Gantry Stage. , 0, , .		7
53	Geometrical error compensation and control of an XY table using neural networks. Control Engineering Practice, 2006, 14, 59-69.	5.5	7
54	Simulation of an evolutionary tuned fuzzy dispatching system for automated guided vehicles. , 0, , .		6

#	ARTICLE	IF	CITATIONS
55	Precision motion control system for ultra-precision semiconductor and electronic components manufacturing. , 0, , .		6
56	Autonomous robot navigation via intrinsic evolution. , 0, , .		6
57	Remotely operated experiment for mechatronics: monitoring of DCS on the Internet. , 0, , .		5
58	Application of vibration sensing in monitoring and control of machine health. , 0, , .		5
59	Feedforward suppression of force ripple based on a simplex-optimized dither signal. ISA Transactions, 2003, 42, 19-27.	5.7	5
60	Intelligent compensation of friction, ripple, and hysteresis via a regulated chatter. ISA Transactions, 2006, 45, 419-433.	5.7	5
61	Autonomous robot navigation based on fuzzy sensor fusion and reinforcement learning. , 0, , .		4
62	Adaptive Precision Control of Permanent Magnet Linear Motors. Asian Journal of Control, 2002, 4, 193-198.	3.0	4
63	A new approach to analysis and design of Smith-predictor controllers. , 0, , .		3
64	Adaptive Control of Ram Velocity for the Injection Moulding Machine. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 6854-6859.	0.4	2
65	Adaptive friction compensation with time-delay friction model. , 0, , .		2
66	Decentralized adaptive control of nonlinear systems using neural networks. , 0, , .		2
67	Iterative reference adjustment for high precision and repetitive motion control applications. , 0, , .		2
68	Speed non-circular piston turning using extracted computer numerical control (CNC) approach high. , 0, , .		2
69	Automatic PID Controller Tuning " the Nonparametric Approach. , 2005, , 147-181.		2
70	Automated haematopoietic stem cells harvesting machine. , 2009, , .		2
71	Fabrication of Electronics Devices with Multi-material Drop-on-Demand Dispensing System. , 2010, , .		2
72	Robust model-reaching control of high-precision linear motion systems. , 0, , .		1

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73	PID-augmented adaptive control of a gyro mirror LOS system. , 0, , .		1
74	Relay-based friction identification in frequency domain. , 0, , .		1
75	Mechatronic experiment on remote vibration signature analysis via the Internet. , 0, , .		1
76	PID control incorporating RBFneural network for servo mechanical systems. , 0, , .		1
77	Dynamic Geometric Compensation for Gantry Stage using Iterative Learning Control. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	1
78	Mechatronic experiment via the Internet. , 0, , .		0
79	Some dynamical properties for a class of discrete recurrent neural networks. , 0, , .		0
80	Development of an Internet home control system. , 0, , .		0
81	Remote adaptive control and monitoring. , 0, , .		0
82	Relay-assisted friction modeling technique. , 0, , .		0
83	Partially-Rotating Piezoelectric Actuator to Assist Cell Penetration in Intra-Cytoplasmic Sperm Injection. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
84	PID-Augmented Adaptive Control of a Gyro Mirror Los System. Asian Journal of Control, 2008, 4, 240-245.	3.0	0
85	Predictive Ratio Control of Multizone Thermal Processing System in Lithography. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 10863-10868.	0.4	0
86	Fault Detection and Accommodation Control for a Class of Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12763-12768.	0.4	0