

Kok Kiong Tan

List of Publications by Citations

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106
papers

1,787
citations

25
h-index

38
g-index

136
ext. papers

2,242
ext. citations

4.5
avg, IF

5.26
L-index

#	Paper	IF	Citations
106	Decentralized control design for large-scale systems with strong interconnections using neural networks. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 805-810	5.9	89
105	Vision-Servo System for Automated Cell Injection. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 231-238	8.9	88
104	Fault Diagnosis and Fault-Tolerant Control in Linear Drives Using the Kalman Filter. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 4285-4292	8.9	81
103	Learning locality-constrained collaborative representation for robust face recognition. <i>Pattern Recognition</i> , 2014 , 47, 2794-2806	7.7	77
102	Development of a Genetic-Algorithm-Based Nonlinear Model Predictive Control Scheme on Velocity and Steering of Autonomous Vehicles. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 6970-6977	8.9	75
101	Modeling and Compensation of Ripples and Friction in Permanent-Magnet Linear Motor Using a Hysteretic Relay. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 , 15, 586-594	5.5	73
100	Adaptive Friction Compensation With a Dynamical Friction Model. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 133-140	5.5	71
99	Intelligent Friction Modeling and Compensation Using Neural Network Approximations. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3342-3349	8.9	66
98	Adaptive Sliding-Mode Control of Piezoelectric Actuators. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3514-3522	8.9	55
97	Design, Modeling, and Control of Piezoelectric Actuators for Intracytoplasmic Sperm Injection. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 879-890	4.8	49
96	Friction modeling and adaptive compensation using a relay feedback approach. <i>IEEE Transactions on Industrial Electronics</i> , 2001 , 48, 169-176	8.9	49
95	Integrated Mechatronic Design in the Flexure-Linked Dual-Drive Gantry by Constrained Linear Quadratic Optimization. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 2408-2418	8.9	43
94	Adaptive online correction and interpolation of quadrature encoder signals using radial basis functions. <i>IEEE Transactions on Control Systems Technology</i> , 2005 , 13, 370-377	4.8	43
93	Power-Efficient Interrupt-Driven Algorithms for Fall Detection and Classification of Activities of Daily Living. <i>IEEE Sensors Journal</i> , 2015 , 15, 1377-1387	4	39
92	Development of an Approach Toward Comprehensive Identification of Hysteretic Dynamics in Piezoelectric Actuators. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1834-1845	4.8	37
91	Data-Based Tuning of Reduced-Order Inverse Model in Both Disturbance Observer and Feedforward With Application to Tray Indexing. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5492-5501	8.9	33
90	Lumbar Ultrasound Image Feature Extraction and Classification with Support Vector Machine. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 2677-89	3.5	33

89	Vision-based approach towards lane line detection and vehicle localization. <i>Machine Vision and Applications</i> , 2016 , 27, 175-191	2.8	33
88	Sliding Mode Disturbance Observer-based Motion Control for a Piezoelectric Actuator-based Surgical Device. <i>Asian Journal of Control</i> , 2018 , 20, 1194-1203	1.7	30
87	A Family of Fuzzy Learning Algorithms for Robust Principal Component Analysis Neural Networks. <i>IEEE Transactions on Fuzzy Systems</i> , 2010 , 18, 217-226	8.3	29
86	Force estimation and failure detection based on disturbance observer for an ear surgical device. <i>ISA Transactions</i> , 2017 , 66, 476-484	5.5	28
85	Motion Control for Piezoelectric-Actuator-Based Surgical Device Using Neural Network and Extended State Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 402-412	8.9	28
84	Composite jerk feedforward and disturbance observer for robust tracking of flexible systems. <i>Automatica</i> , 2017 , 80, 253-260	5.7	27
83	Re-visiting the tympanic membrane vicinity as core body temperature measurement site. <i>PLoS ONE</i> , 2017 , 12, e0174120	3.7	27
82	An improvement on stable adaptive control for a class of nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1398-1403	5.9	26
81	Intelligent Friction Compensation: A Review. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1763-1774	3.4	25
80	Friction Modeling and Compensation of Servomechanical Systems With Dual-Relay Feedback Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 1295-1305	4.8	24
79	Internet-based monitoring of distributed control systems-An undergraduate experiment. <i>IEEE Transactions on Education</i> , 2002 , 45, 128-134	2.1	24
78	Integral terminal sliding-mode-based adaptive integral backstepping control for precision motion of a piezoelectric ultrasonic motor. <i>Mechanical Systems and Signal Processing</i> , 2020 , 144, 106856	7.8	20
77	A novel constrained H optimization algorithm for mechatronics design in flexure-linked biaxial gantry. <i>ISA Transactions</i> , 2017 , 71, 467-479	5.5	20
76	Hardware-in-the-Loop Simulation for the Development of an Experimental Linear Drive. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1167-1174	8.9	20
75	A Novel Adaptive Jerk Control With Application to Large Workspace Tracking on a Flexure-Linked Dual-Drive Gantry. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5353-5363	8.9	20
74	Contact Force Control on Soft Membrane for an Ear Surgical Device. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 9593-9603	8.9	19
73	Toward Comprehensive Modeling and Large-Angle Tracking Control of a Limited-Angle Torque Actuator With Cylindrical Halbach. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 1-1	5.5	17
72	Parameter space optimization towards integrated mechatronic design for uncertain systems with generalized feedback constraints. <i>Automatica</i> , 2019 , 105, 149-158	5.7	16

71	Development of a Spherical Air Bearing Positioning System. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3501-3509	8.9	16
70	Three Dimensional Collision Avoidance for Multi Unmanned Aerial Vehicles Using Velocity Obstacle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020 , 97, 227-248	2.9	16
69	Robust Decentralized Controller Synthesis in Flexure-Linked H-Gantry by Iterative Linear Programming. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 1698-1708	11.9	15
68	Identification of Coulomb Friction-Impeded Systems With a Triple-Relay Feedback Apparatus. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 726-737	4.8	15
67	Stabilization system on an office-based ear surgical device by force and vision feedback. <i>Mechatronics</i> , 2017 , 42, 1-10	3	14
66	Global Convergence of GHA Learning Algorithm With Nonzero-Approaching Adaptive Learning Rates. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 1557-1571		14
65	Adaptive sliding mode enhanced disturbance observer-based control of surgical device. <i>ISA Transactions</i> , 2019 , 90, 178-188	5.5	12
64	Mitigation of Vehicle Distribution in an EV Sharing Scheme for Last Mile Transportation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 2631-2641	6.1	12
63	Signal-Transformation-Based Repetitive Control of Spiral Trajectory for Piezoelectric Nanopositioning Stages. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 1634-1645	5.5	12
62	Precision motion control with a high gain disturbance compensator for linear motors. <i>ISA Transactions</i> , 2004 , 43, 399-412	5.5	12
61	Path planning of collision avoidance for unmanned ground vehicles: A nonlinear model predictive control approach. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2021 , 235, 222-236	1	12
60	A novel approach to neuraxial anesthesia: application of an automated ultrasound spinal landmark identification. <i>BMC Anesthesiology</i> , 2019 , 19, 57	2.4	11
59	Active vibration isolation based on model reference adaptive control. <i>International Journal of Systems Science</i> , 2014 , 45, 97-108	2.3	11
58	Limit cycles induced in type-1 linear systems with PID-type of relay feedback. <i>International Journal of Systems Science</i> , 2009 , 40, 1229-1239	2.3	10
57	Collision Avoidance Design on Unmanned Aerial Vehicle in 3D Space. <i>Unmanned Systems</i> , 2018 , 06, 277-295		10
56	Computation delay compensation for real time implementation of robust model predictive control. <i>Journal of Process Control</i> , 2013 , 23, 1342-1349	3.9	9
55	An RBF neural network approach to geometric error compensation with displacement measurements only. <i>Neural Computing and Applications</i> , 2017 , 28, 1235-1248	4.8	9
54	Compensation of hysteresis in piezoelectric actuator with iterative learning control. <i>Journal of Control Theory and Applications</i> , 2010 , 8, 176-180		9

53	Ultrasound guided automatic localization of needle insertion site for epidural anesthesia 2013,		8
52	Repetitive control approach towards automatic tuning of Smith predictor controllers. <i>ISA Transactions</i> , 2009 , 48, 16-23	5.5	8
51	Real-time automatic spinal level identification with ultrasound image processing 2015,		7
50	Multirate-Based Composite Controller Design of Piezoelectric Actuators for High-Bandwidth and Precision Tracking. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 816-821	4.8	7
49	Stability and Chaos of a Class of Learning Algorithms for ICA Neural Networks. <i>Neural Processing Letters</i> , 2008 , 28, 35-47	2.4	7
48	Geometrical error compensation of machines with significant random errors. <i>ISA Transactions</i> , 2005 , 44, 43-53	5.5	7
47	Adaptive parameter and gain RISE control of a flexure-based dual-drive gantry 2016,		7
46	Enhanced sensitivity shaping by data-based tuning of disturbance observer with non-binomial filter. <i>ISA Transactions</i> , 2019 , 85, 284-292	5.5	7
45	Force Feedback Control Assisted Tympanostomy Tube Insertion. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 1007-1018	4.8	6
44	Disturbance Compensation by Reference Profile Alteration With Application to Tray Indexing. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9406-9416	8.9	6
43	Autonomous vehicle velocity and steering control through nonlinear model predictive control scheme 2016,		6
42	Adaptive Control of Mechanical Systems Using Neural Networks. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2007 , 37, 897-903		6
41	Assistive technology for ultrasound-guided central venous catheter placement. <i>Journal of Medical Ultrasonics (2001)</i> , 2018 , 45, 41-57	1.4	4
40	Problem and solution of designing an air bearing system 2010,		4
39	An Innovative Design for In-Vitro Fertilization Oocyte Retrieval Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2013 , 9, 1892-1899	11.9	3
38	Vision approach towards fully self-reverse parking system 2014,		3
37	Computation delay compensation for real time implementation of robust model predictive control 2012,		3
36	Parameter Space Optimization Towards Constrained Controller Design With Application to Tray Indexing. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5575-5585	8.9	3

35	Data-Driven Model-Free Iterative Tuning Approach for Smooth and Accurate Tracking 2018 ,		3
34	Selective precision motion control using weighted sensor fusion approach 2013 ,		2
33	Disturbance observer based small force detection for an ultrasonic motor with application to a surgical device 2015 ,		2
32	Stabilization for an ear surgical device using force feedback and vision-based motion compensation 2014 ,		2
31	Fault Simulator Based on a Hardware-in-the-Loop Technique. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 1135-1139		2
30	Predictive Ratio Control for Interacting Processes. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10515-10521	3.9	2
29	Feedforward Control With Disturbance Prediction for Linear Discrete-Time Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2340-2350	4.8	2
28	Intelligent Motion Control of Ultrasonic Motor for an Ear Surgical Device 2018 ,		2
27	Predictive feedforward control 2016 ,		1
26	Robust precision positioning control on linear ultrasonic motor 2013 ,		1
25	Alignment Motion Control for an Automated Human Ear Surgery via Vision-Servoing. <i>Asian Journal of Control</i> , 2017 , 19, 482-493	1.7	1
24	A novel robust, continuous, PID-assisted control for precision tracking of flexible systems a case study on timing belts 2017 ,		1
23	Application of design of experiments to feature selection in ventilation tube applicator 2015 ,		1
22	Capacitive-Based Contact Sensing for Office-Based Ventilation Tube Applicator for Otitis Media With Effusion Treatment. <i>IEEE Sensors Journal</i> , 2015 , 15, 3926-3933	4	1
21	Mechatronic design of an office-based ventilation tube applicator for patients with Otitis Media with Effusion 2013 ,		1
20	Identification and control of linear dynamics with input Preisach hysteresis 2010 ,		1
19	Text extraction from images captured via mobile and digital devices 2009 ,		1
18	Compensation of hysteresis in piezoelectric actuator with iterative learning control 2009 ,		1

17	Relay-based force ripple and friction modeling for the permanent magnet linear motor 2008 ,		1
16	Development of an intelligent surgical instrument for otitis media with effusion. <i>ISA Transactions</i> , 2016 , 65, 567-576	5.5	1
15	Teaching of Automation and Control Engineering Practice - A Case Study 2018 ,		1
14	Machine learning approach to needle insertion site identification for spinal anesthesia in obese patients. <i>BMC Anesthesiology</i> , 2021 , 21, 246	2.4	0
13	Data-Driven Tuning Method for LQR Based Optimal PID Controller 2019 ,		0
12	Adaptive Robust Impedance Control for an Ear Surgical Device with Soft Interaction. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	0
11	Set-point manipulation approach towards online performance improvement in existing process control loops. <i>ISA Transactions</i> , 2017 , 70, 458-464	5.5	
10	Design and development of a secure multi-access, cross-platform telemedicine application □ MEETING ROOM. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2015 , 12, 194-203	0.6	
9	Decoupled tracking and thermal monitoring of non-stationary targets. <i>ISA Transactions</i> , 2009 , 48, 449-575	5.5	
8	Force-Based Supervisory Control Assisted Surgery. <i>Advances in Industrial Control</i> , 2021 , 61-84	0.3	
7	Optimal and Robust Contact Force Control on Soft Membrane. <i>Advances in Industrial Control</i> , 2021 , 109-131	0.3	
6	Stabilization System Based on Vision-Assisted Force Feedback. <i>Advances in Industrial Control</i> , 2021 , 85-108	0.3	
5	Force Position Control for Fast Tube Insertion. <i>Advances in Industrial Control</i> , 2021 , 133-156	0.3	
4	Robust Impedance Control of Constrained Piezoelectric Actuator-Based End-Effector. <i>Advances in Industrial Control</i> , 2021 , 157-178	0.3	
3	Advanced Disturbance Observer-Based Failure Detection for Force Sensor. <i>Advances in Industrial Control</i> , 2021 , 179-198	0.3	
2	Disturbance Observer-Based Force Estimation Without Force Sensors. <i>Advances in Industrial Control</i> , 2021 , 29-59	0.3	
1	Intelligent vision guide for automatic ventilation grommet insertion into the tympanic membrane. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2016 , 12, 18-31	2.9	