Tong Heng Lee

List of Publications by Year in Descending Order

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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.

143
papers2,464
citations26
h-index46
g-index196
ext. papers3,133
ext. citations4.9
avg, IF5.28
L-index

#	Paper	IF	Citations
143	Practical Time-Synchronized Attitude Control for Disturbed Spacecraft 2022 , 221-250		
142	Time-Synchronized Spacecraft Control in Rendezvous and Docking 2022 , 189-220		
141	Time-Synchronized Stability 2022 , 11-41		
140	Time-Synchronized Consensus of Network Systems 2022 , 165-187		
139	Fixed-Time-Synchronized Control with Settling Time Estimation 2022 , 133-163		
138	Time-Synchronized Sliding Modes 2022 , 43-60		
137	Fixed-Time-Synchronized Control with Singularity Avoidance 2022 , 101-131		
136	Time-Synchronized Control for Disturbed Systems 2022 , 61-99		1
135	Hybrid Active-Passive Robust Control Framework of a Flexure-Joint Dual-Drive Gantry Robot for High-Precision Contouring Tasks. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	1
134	Online Optimal Power Scheduling of a Microgrid via Imitation Learning. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	1
133	. IEEE Transactions on Automatic Control, 2021 , 66, 5554-5560	5.9	13
132	Fixed-Time-Synchronized Consensus Control of Multiagent Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 8, 89-98	4	25
131	Iterative Super-Twisting Sliding Mode Control for Tray Indexing System With Unknown Dynamics. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9855-9865	8.9	6
130	Set Invariance and Optimal Set Stabilization of Boolean Control Networks: A Graphical Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2021 , 8, 400-412	4	2
129	On Robust Stability and Performance With a Fixed-Order Controller Design for Uncertain Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-13	7.3	5
128	. IEEE/ASME Transactions on Mechatronics, 2021 , 1-1	5.5	6
127	Simultaneous-Arrival-to-Origin Convergence: Sliding-Mode Control through the Norm-Normalized Sign Function. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	10

126	. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021 , 1-14	7.3	15
125	Adaptive Robust Impedance Control for an Ear Surgical Device with Soft Interaction. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	O
124	. IEEE Transactions on Industrial Electronics, 2021 , 1-1	8.9	2
123	Convex Inner Approximation for Mixed H2/H-Infinity Control with Application to a 2-DoF Flexure-Based Nano-Positioning System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
122	. IEEE Transactions on Intelligent Transportation Systems, 2021 , 1-12	6.1	2
121	Sequential Convex Programming for Collaboration of Connected and Automated Vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , 2021 , 1-1	5	Ο
120	Trajectory Generation by Chance-Constrained Nonlinear MPC With Probabilistic Prediction. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3616-3629	10.2	10
119	Finite-Horizon Optimal Control of Boolean Control Networks: A Unified Graph-Theoretical Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	2
118	. IEEE/ASME Transactions on Mechatronics, 2020 , 25, 1961-1970	5.5	15
117	Unsupervised Cross-domain Fault Diagnosis Using Feature Representation Alignment Networks for Rotating Machinery. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 1-1	5.5	17
116	Semi-Proximal ADMM for Model Predictive Control Problem with Application to a UAV System 2020 ,		2
115	Infinite-Horizon Optimal Control of Switched Boolean Control Networks With Average Cost: An Efficient Graph-Theoretical Approach. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	6
114	Learning Asynchronous Boolean Networks From Single-Cell Data Using Multiobjective Cooperative Genetic Programming. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	1
	Cooperative Circumnavigation Control of Networked Microsatellites. IEEE Transactions on		
113	Cybernetics, 2020, 50, 4550-4555	10.2	16
113		8.9	6
	Cybernetics, 2020, 50, 4550-4555 Disturbance Compensation by Reference Profile Alteration With Application to Tray Indexing. IEEE		
112	Cybernetics, 2020, 50, 4550-4555 Disturbance Compensation by Reference Profile Alteration With Application to Tray Indexing. IEEE Transactions on Industrial Electronics, 2019, 66, 9406-9416		6

108	Data-driven identification and control of nonlinear systems using multiple NARMA-L2 models. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 3806-3833	3.6	7
107	GPS/odometry/map fusion for vehicle positioning using potential function. <i>Autonomous Robots</i> , 2018 , 42, 99-110	3	4
106	Role playing learning for socially concomitant mobile robot navigation. <i>CAAI Transactions on Intelligence Technology</i> , 2018 , 3, 49-58	9.7	22
105	Efficient Boolean Modeling of Gene Regulatory Networks via Random Forest Based Feature Selection and Best-Fit Extension 2018 ,		5
104	Teaching of Automation and Control Engineering Practice - A Case Study 2018,		1
103	Geometric Map-Assisted Localization for Mobile Robots Based on Uniform-Gaussian Distribution. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 789-795	4.2	10
102	Adaptive Control of Robotic Manipulators With Unified Motion Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 184-194	7.3	43
101	Adaptive control for robot navigation in human environments based on social force model 2016,		3
100	Long-term cooperative tracking using multiple unmanned aerial vehicles 2016,		1
99	Integrated Servo-Mechanical Design of Robust Mechatronics Based on Ambiguous Chance Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2449-2456	4.8	3
99 98		4.8	3
	Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2449-2456 Power-Efficient Interrupt-Driven Algorithms for Fall Detection and Classification of Activities of		
98	Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2449-2456 Power-Efficient Interrupt-Driven Algorithms for Fall Detection and Classification of Activities of Daily Living. <i>IEEE Sensors Journal</i> , 2015 , 15, 1377-1387		39
98 97	Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2449-2456 Power-Efficient Interrupt-Driven Algorithms for Fall Detection and Classification of Activities of Daily Living. <i>IEEE Sensors Journal</i> , 2015 , 15, 1377-1387 Wide area surveillance of urban environments using multiple Mini-VTOL UAVs 2015 , Design and Implementation of Integral Sliding-Mode Control on an Underactuated Two-Wheeled	4	39
98 97 96	Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2449-2456 Power-Efficient Interrupt-Driven Algorithms for Fall Detection and Classification of Activities of Daily Living. <i>IEEE Sensors Journal</i> , 2015 , 15, 1377-1387 Wide area surveillance of urban environments using multiple Mini-VTOL UAVs 2015 , Design and Implementation of Integral Sliding-Mode Control on an Underactuated Two-Wheeled Mobile Robot. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 3671-3681 Integrated servo-mechanical design of robust mechatronics based on low-order moments and	4	39 2 198
98 97 96 95	Constraints. IEEE Transactions on Control Systems Technology, 2015, 23, 2449-2456 Power-Efficient Interrupt-Driven Algorithms for Fall Detection and Classification of Activities of Daily Living. IEEE Sensors Journal, 2015, 15, 1377-1387 Wide area surveillance of urban environments using multiple Mini-VTOL UAVs 2015, Design and Implementation of Integral Sliding-Mode Control on an Underactuated Two-Wheeled Mobile Robot. IEEE Transactions on Industrial Electronics, 2014, 61, 3671-3681 Integrated servo-mechanical design of robust mechatronics based on low-order moments and support 2014, Active vibration isolation based on model reference adaptive control. International Journal of	8.9	39 2 198
98 97 96 95 94	Constraints. IEEE Transactions on Control Systems Technology, 2015, 23, 2449-2456 Power-Efficient Interrupt-Driven Algorithms for Fall Detection and Classification of Activities of Daily Living. IEEE Sensors Journal, 2015, 15, 1377-1387 Wide area surveillance of urban environments using multiple Mini-VTOL UAVs 2015, Design and Implementation of Integral Sliding-Mode Control on an Underactuated Two-Wheeled Mobile Robot. IEEE Transactions on Industrial Electronics, 2014, 61, 3671-3681 Integrated servo-mechanical design of robust mechatronics based on low-order moments and support 2014, Active vibration isolation based on model reference adaptive control. International Journal of Systems Science, 2014, 45, 97-108 Systematic Design and Implementation of a Micro Unmanned Quadrotor System. Unmanned	8.9	39 2 198 1

(2012-2014)

90	On computation of stabilizing loop gain and delay ranges for bi-proper delay systems. <i>ISA Transactions</i> , 2014 , 53, 1705-15	5.5	3
89	Frequency-domain L 2-stability conditions for time-varying linear and nonlinear MIMO systems. <i>Control Theory and Technology</i> , 2014 , 12, 13-34	1	5
88	Robust adaptive output feedback control of a class of discrete-time nonlinear systems with nonlinear uncertainties and unknown control directions. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 1472-1495	3.6	18
87	Integrated servo-mechanical design of high-performance mechatronics using generalized KYP Lemma. <i>Microsystem Technologies</i> , 2013 , 19, 1549-1557	1.7	5
86	Aliased Narrow-Band Disturbance Rejection Using Phase-Stabilization Above Nyquist Frequency. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2693-2696	2	2
85	Continuous critic learning for robot control in physical human-robot interaction 2013,		6
84	Design and Implementation of a TakagiBugeno-Type Fuzzy Logic Controller on a Two-Wheeled Mobile Robot. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 5717-5728	8.9	73
83	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
82	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
81	Neural networks impedance control of robots interacting with environments. <i>IET Control Theory and Applications</i> , 2013 , 7, 1509-1519	2.5	20
81		2.5	20
	and Applications, 2013 , 7, 1509-1519	2.5	
80	and Applications, 2013, 7, 1509-1519 Region tracking control for multi-agent systems with high-order dynamics 2013, Convex separable parametrization in integrated servo-mechanical design for high-performance	2.5	2
80 79	and Applications, 2013, 7, 1509-1519 Region tracking control for multi-agent systems with high-order dynamics 2013, Convex separable parametrization in integrated servo-mechanical design for high-performance mechatronics 2013,	2.5 5.9	2
80 79 78	Region tracking control for multi-agent systems with high-order dynamics 2013, Convex separable parametrization in integrated servo-mechanical design for high-performance mechatronics 2013, Platform design and mathematical modeling of an ultralight quadrotor micro aerial vehicle 2013, Identification of Unknown Parameters for a Class of Two-Level Quantum Systems. IEEE Transactions		2 4 7
80 79 78 77	Region tracking control for multi-agent systems with high-order dynamics 2013, Convex separable parametrization in integrated servo-mechanical design for high-performance mechatronics 2013, Platform design and mathematical modeling of an ultralight quadrotor micro aerial vehicle 2013, Identification of Unknown Parameters for a Class of Two-Level Quantum Systems. IEEE Transactions on Automatic Control, 2013, 58, 1805-1810		2 4 7 9
80 79 78 77 76	Region tracking control for multi-agent systems with high-order dynamics 2013, Convex separable parametrization in integrated servo-mechanical design for high-performance mechatronics 2013, Platform design and mathematical modeling of an ultralight quadrotor micro aerial vehicle 2013, Identification of Unknown Parameters for a Class of Two-Level Quantum Systems. IEEE Transactions on Automatic Control, 2013, 58, 1805-1810 A smooth hybrid symbolic control for the formation of UAVs over a partitioned space 2013, Fault Diagnosis and Fault-Tolerant Control in Linear Drives Using the Kalman Filter. IEEE	5.9	2 4 7 9

72	Design and mathematical modeling of a 4-standard-propeller (4SP) quadrotor 2012,		18
71	Integral Resonant Control for Suppression of Micro-Actuator Resonance in Dual Stage Actuator. IEEE Transactions on Magnetics, 2012, 48, 4614-4617	2	1
70	Computation delay compensation for real time implementation of robust model predictive control 2012 ,		3
69	Adaptive Friction Compensation With a Dynamical Friction Model. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 133-140	5.5	71
68	Adaptive Neural Network Control of Hard Disk Drives With Hysteresis Friction Nonlinearity. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 351-358	4.8	26
67	Feedback stabilization for planar switched linear systems with two subsystems under arbitrary switching 2011 ,		2
66	Allocating Resources in Multiagent Flowshops With Adaptive Auctions. <i>IEEE Transactions on Automation Science and Engineering</i> , 2011 , 8, 732-743	4.9	7
65	Identification and control of a two-level open quantum system 2011,		3
64	Identification and control of linear dynamics with input Preisach hysteresis 2010,		1
63	Identification and control of nonlinear systems using piecewise affine models 2010,		2
62	Identification of piecewise affine systems and nonlinear systems using multiple models 2010,		2
61	Adaptive control of a class of discrete-time MIMO nonlinear systems with uncertain couplings. <i>International Journal of Control</i> , 2010 , 83, 2120-2133	1.5	43
60	Identification and control of nonlinear systems via piecewise affine approximation 2010,		2
59	Compensation of hysteresis in piezoelectric actuator with iterative learning control. <i>Journal of</i>		9
	Control Theory and Applications, 2010 , 8, 176-180		
58	Dynamic modeling and control of extracellular ATP concentration on vascular endothelial cells via shear stress modulation. <i>Journal of Control Theory and Applications</i> , 2010 , 8, 326-332		2
58 57	Dynamic modeling and control of extracellular ATP concentration on vascular endothelial cells via		2 41
	Dynamic modeling and control of extracellular ATP concentration on vascular endothelial cells via shear stress modulation. <i>Journal of Control Theory and Applications</i> , 2010 , 8, 326-332 Adaptive dynamic surface control for a class of strict-feedback nonlinear systems with unknown		

54	Semi-parametric adaptive control of discrete-time nonlinear systems 2009,		2
53	Adaptive control of a class of strict-feedback discrete-time nonlinear systems with unknown control gains and preceded by hysteresis 2009 ,		5
52	Decentralized supervisory control: Nondeterministic transitions versus deterministic moves 2009,		1
51	A general framework for least-squares based identification of time-varying system using multiple models 2009 ,		4
50	Decentralized adaptive control of a class of discrete-time multi-agent systems for hidden leader following problem 2009 ,		10
49	Improved disturbance rejection with online adaptive pole-zero compensation on a Eshaped PZT active suspension. <i>Microsystem Technologies</i> , 2009 , 15, 1499-1508	1.7	7
48	Predictive Ratio Control for Interacting Processes. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10515-10521	3.9	2
47	Developments in hybrid modeling and control of Unmanned Aerial Vehicles 2009,		2
46	Text extraction from images captured via mobile and digital devices 2009,		1
45	Compensation of hysteresis in piezoelectric actuator with iterative learning control 2009,		1
44	Adaptive Sliding-Mode Control of Piezoelectric Actuators. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3514-3522	8.9	55
43	A sliding mode control scheme for an underactuated unicycle 2009 ,		1
42	EXISTENCE ANALYSIS FOR LIMIT CYCLES OF RELAY FEEDBACK SYSTEMS. <i>Asian Journal of Control</i> , 2008 , 6, 428-431	1.7	1
41	Forecast Forex with ANN Using Fundamental Data 2008,		10
40	Stable adaptive neural network control of MIMO nonaffine nonlinear discrete-time systems 2008,		1
40	Stable adaptive neural network control of MIMO nonaffine nonlinear discrete-time systems 2008 , \$H_{infty} \$ Filter Design for Nonlinear Systems With Time-Delay Through TB Fuzzy Model Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2008 , 16, 739-746	8.3	103
	\$H_{infty} \$ Filter Design for Nonlinear Systems With Time-Delay Through TB Fuzzy Model	8.3	

36	Adaptive neural control for uncertain nonlinear systems in pure-feedback form with hysteresis input 2008 ,		6
35	Adaptive model reference control of a class of MIMO discrete-time systems with compensation of nonparametric uncertainty 2008 ,		5
34	Adaptive neural control of SISO non-affine nonlinear time-delay systems with unknown hysteresis input 2008 ,		2
33	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
32	Enhanced disturbance suppression in sampled-data systems and its application to high density data storage servos. <i>Microsystem Technologies</i> , 2007 , 13, 911-921	1.7	2
31	Hard Disk Drives Control in Mobile Applications. <i>Journal of Systems Science and Complexity</i> , 2007 , 20, 215-224	1	8
30	Fuzzy Weighting-Dependent Approach to \$H_{infty}\$ Filter Design for Time-Delay Fuzzy Systems. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 2746-2751	4.8	88
29	Piezoelectric Actuator for Intra-Cytoplasmic Sperm Injection. <i>Recent Patents on Engineering</i> , 2007 , 1, 147-152	0.3	1
28	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
27	A Smith-Like Control Design for Performance Enhancement of Systems with RHP Zeros. <i>Journal of Chemical Engineering of Japan</i> , 2007 , 40, 128-138	0.8	
26	Line Tracking of the Gyrobot - a Gyroscopically Stabilized Single-Wheeled Robot 2006,		7
25	A less conservative robust stability test for linear uncertain time-delay systems. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 87-91	5.9	184
24	Iterative learning control for systems with input deadzone. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 1455-1459	5.9	31
23	Robust normalization and stabilization of Uncertain Descriptor systems with norm-Bounded Perturbations. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 515-520	5.9	69
22	On nonlinear H Isliding mode control for a class of nonlinear cascade systems. <i>International Journal of Systems Science</i> , 2005 , 36, 983-992	2.3	12
21	Robust adaptive control for a class of perturbed strict-feedback nonlinear systems 2004,		4
20	Stability criteria and bounds for limit cycles of relay feedback systems. <i>Dynamical Systems</i> , 2004 , 19, 16	161.80	3
19	Analysis and comparison of iterative learning control schemes. <i>Engineering Applications of Artificial</i> Intelligence, 2004 , 17, 675-686	7.2	32

18	Fuzzy behavior-based control of mobile robots. <i>IEEE Transactions on Fuzzy Systems</i> , 2004 , 12, 559-564	8.3	47
17	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
16	Relay Feedback: A Complete Analysis for First-Order Systems. <i>Industrial & Description of the Mistry Research</i> , 2004 , 43, 8400-8402	3.9	20
15	A modular control scheme for PMSM speed control with pulsating torque minimization. <i>IEEE Transactions on Industrial Electronics</i> , 2004 , 51, 526-536	8.9	124
14	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
13	Internet-based monitoring of distributed control systems-An undergraduate experiment. <i>IEEE Transactions on Education</i> , 2002 , 45, 128-134	2.1	24
12	New interpolation method for quadrature encoder signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2002 , 51, 1073-1079	5.2	72
11	Output tracking control of MIMO fuzzy nonlinear systems using variable structure control approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2002 , 10, 686-697	8.3	62
10	Local stability of limit cycles for time-delay relay-feedback systems. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2002 , 49, 1870-1875		10
9	Robust PI controller design for nonlinear systems via fuzzy modeling approach. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans,</i> 2001 , 31, 666-675		40
8	Micro-positioning of linear-piezoelectric motors based on a learning nonlinear PID controller. <i>IEEE/ASME Transactions on Mechatronics</i> , 2001 , 6, 428-436	5.5	76
7	Nanoposition sensing and control in HDD dual-stage servo systems		9
6	Robust adaptive control of nonlinear systems with unknown time delays		2
5	A multirate iterative learning control scheme		1
4	On the design of multivariable PID controllers via LMI approach		1
3	Application of evolutionary artificial potential field in robot soccer system		16
2	A parameter optimization approach to solving quasi-LMI problems		2
1	Robust PI controller design for nonlinear systems via fuzzy modelling approach		2