

Ying Tan

List of Publications by Year in descending order

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173
papers

3,146
citations

201674

27
h-index

175258

52
g-index

174
all docs

174
docs citations

174
times ranked

1852
citing authors

#	ARTICLE	IF	CITATIONS
1	On non-local stability properties of extremum seeking control. <i>Automatica</i> , 2006, 42, 889-903.	5.0	501
2	A composite energy function-based learning control approach for nonlinear systems with time-varying parametric uncertainties. <i>IEEE Transactions on Automatic Control</i> , 2002, 47, 1940-1945.	5.7	181
3	On the choice of dither in extremum seeking systems: A case study. <i>Automatica</i> , 2008, 44, 1446-1450.	5.0	148
4	Iterative Learning Control With Mixed Constraints for Point-to-Point Tracking. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 604-616.	5.2	143
5	Iterative learning control design based on composite energy function with input saturation. <i>Automatica</i> , 2004, 40, 1371-1377.	5.0	139
6	Robust optimal design and convergence properties analysis of iterative learning control approaches. <i>Automatica</i> , 2002, 38, 1867-1880.	5.0	100
7	Optimal iterative learning control design for multi-agent systems consensus tracking. <i>Systems and Control Letters</i> , 2014, 69, 80-89.	2.3	99
8	Unified frameworks for sampled-data extremum seeking control: Global optimisation and multi-unit systems. <i>Automatica</i> , 2013, 49, 2720-2733.	5.0	86
9	Distributed Deception Attack Detection in Platoon-Based Connected Vehicle Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 4609-4620.	6.3	75
10	Deception Attack Detection and Estimation for a Local Vehicle in Vehicle Platooning Based on a Modified UFIR Estimator. <i>IEEE Internet of Things Journal</i> , 2020, 7, 3693-3705.	8.7	64
11	A practical 3D-printed soft robotic prosthetic hand with multi-articulating capabilities. <i>PLoS ONE</i> , 2020, 15, e0232766.	2.5	62
12	Nonlinear Adaptive Wavelet Control Using Constructive Wavelet Networks. <i>IEEE Transactions on Neural Networks</i> , 2007, 18, 115-127.	4.2	58
13	On the P-type and Newton-type ILC schemes for dynamic systems with non-affine-in-input factors. <i>Automatica</i> , 2002, 38, 1237-1242.	5.0	56
14	On Designing Event-Triggered Schemes for Networked Control Systems Subject to One-Step Packet Dropout. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 902-910.	11.3	45
15	Convergence analysis of feedback-based iterative learning control with input saturation. <i>Automatica</i> , 2019, 101, 44-52.	5.0	45
16	Robustness analysis of leader-follower consensus. <i>Journal of Systems Science and Complexity</i> , 2009, 22, 186-206.	2.8	43
17	Multidimensional global extremum seeking via the DIRECT optimisation algorithm. <i>Automatica</i> , 2013, 49, 1970-1978.	5.0	43
18	Overcoming overshoot performance limitations of linear systems with reset control. <i>Automatica</i> , 2019, 101, 27-35.	5.0	43

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19	Unified iterative learning control schemes for nonlinear dynamic systems with nonlinear input uncertainties. <i>Automatica</i> , 2012, 48, 3173-3182.	5.0	42
20	Multi-agent source seeking via discrete-time extremum seeking control. <i>Automatica</i> , 2014, 50, 2312-2320.	5.0	42
21	A non-gradient approach to global extremum seeking: An adaptation of the Shubert algorithm. <i>Automatica</i> , 2013, 49, 809-815.	5.0	41
22	Extremum Seeking for Constrained Inputs. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 2405-2410.	5.7	41
23	Decentralized PID Control Design for Magnetic Levitation Systems Using Extremum Seeking. <i>IEEE Access</i> , 2018, 6, 3059-3067.	4.2	39
24	Interaction Force Estimation Using Extended State Observers: An Application to Impedance-Based Assistive and Rehabilitation Robotics. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 1156-1161.	5.1	36
25	On extremum seeking in bioprocesses with multivalued cost functions. <i>Biotechnology Progress</i> , 2009, 25, 683-689.	2.6	34
26	Learning control in robot-assisted rehabilitation of motor skills – a review. <i>Journal of Control and Decision</i> , 2016, 3, 19-43.	1.6	32
27	Synchronization of Heterogeneous Multi-Agent Systems by Adaptive Iterative Learning Control. <i>Asian Journal of Control</i> , 2015, 17, 2091-2104.	3.0	29
28	Magnetic-based Soft Tactile Sensors with Deformable Continuous Force Transfer Medium for Resolving Contact Locations in Robotic Grasping and Manipulation. <i>Sensors</i> , 2019, 19, 4925.	3.8	29
29	Extremum seeking of dynamical systems via gradient descent and stochastic approximation methods. <i>Automatica</i> , 2015, 56, 44-52.	5.0	28
30	On global extremum seeking in the presence of local extrema. , 2006, , .		26
31	Stability and Persistent Excitation in Signal Sets. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 1188-1203.	5.7	25
32	Analyzing the Stability of Switched Systems Using Common Zeroing-Output Systems. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 5138-5153.	5.7	25
33	EMU: A transparent 3D robotic manipulandum for upper-limb rehabilitation. , 2017, 2017, 771-776.		21
34	Dual-loop iterative optimal control for the finite horizon LQR problem with unknown dynamics. <i>Systems and Control Letters</i> , 2018, 111, 49-57.	2.3	21
35	Robustness analysis of leader-follower consensus for multi-agent systems characterized by double integrators. <i>Systems and Control Letters</i> , 2012, 61, 1103-1115.	2.3	20
36	Modulation of shoulder muscle and joint function using a powered upper-limb exoskeleton. <i>Journal of Biomechanics</i> , 2018, 72, 7-16.	2.1	20

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37	Feedback-Based Iterative Learning Design and Synthesis With Output Constraints for Robotic Manipulators. , 2018, 2, 513-518.		20
38	Distributed Stochastic Model Predictive Control for Heterogeneous Vehicle Platoons Subject to Modeling Uncertainties. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 25-40.	3.8	20
39	Modeling Individual Human Motor Behavior Through Model Reference Iterative Learning Control. IEEE Transactions on Biomedical Engineering, 2012, 59, 1892-1901.	4.2	18
40	Revisit of LQG Control—A New Paradigm with Recovered Robustness. , 2019, , .		18
41	Point-to-point iterative learning control with mixed constraints. , 2011, , .		17
42	Integral sliding mode control design for systems with fast sensor dynamics. Automatica, 2020, 119, 109093.	5.0	17
43	Flexible mechanical metamaterials enabling soft tactile sensors with multiple sensitivities at multiple force sensing ranges. Scientific Reports, 2021, 11, 24125.	3.3	16
44	Enhancing trajectory tracking for a class of process control problems using iterative learning. Engineering Applications of Artificial Intelligence, 2002, 15, 53-64.	8.1	15
45	Tactile Feedback in Closed-Loop Control of Myoelectric Hand Grasping: Conveying Information of Multiple Sensors Simultaneously via a Single Feedback Channel. Frontiers in Neuroscience, 2020, 14, 348.	2.8	15
46	Model-Guided Extremum Seeking for Diesel Engine Fuel Injection Optimization. IEEE/ASME Transactions on Mechatronics, 2018, 23, 936-946.	5.8	14
47	Invariance Principles and Observability in Switched Systems With an Application in Consensus. IEEE Transactions on Automatic Control, 2021, 66, 5128-5143.	5.7	14
48	Iterative learning control and repetitive control. International Journal of Control, 2011, 84, 1193-1195.	1.9	13
49	Modeling and Control of Local Electromagnetic Actuation for Robotic-Assisted Surgical Devices. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2449-2460.	5.8	13
50	Compatible Formation Set for UAVs with Visual Sensing Constraint. , 2018, , .		13
51	On the convergence speed of a class of higher-order ILC schemes. , 0, , .		13
52	A suboptimal learning control scheme for non-linear systems with time-varying parametric uncertainties. Optimal Control Applications and Methods, 2001, 22, 111-126.	2.1	12
53	Dynamic practical stabilization of sampled-data linear distributed parameter systems. , 2009, , .		12
54	A unifying framework for analysis and design of extremum seeking controllers. , 2012, , .		12

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55	Open problems in reset control. , 2013, , .		12
56	Extremum Seeking Control With Input Dead-Zone. IEEE Transactions on Automatic Control, 2020, 65, 3184-3190.	5.7	12
57	Personalized Online Adaptation of Kinematic Synergies for Human-Prosthesis Interfaces. IEEE Transactions on Cybernetics, 2021, 51, 1070-1084.	9.5	12
58	Evaluating Rehabilitation Progress Using Motion Features Identified by Machine Learning. IEEE Transactions on Biomedical Engineering, 2021, 68, 1417-1428.	4.2	12
59	Unilateral Manipulability Quality Indices: Generalized Manipulability Measures for Unilaterally Actuated Robots. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	12
60	A refinement of Matrosovâ€™s theorem for differential inclusions. Automatica, 2016, 68, 378-383.	5.0	11
61	Pressure Sensor Data-Driven Optimization of Combustion Phase in a Diesel Engine. IEEE/ASME Transactions on Mechatronics, 2020, 25, 694-704.	5.8	11
62	Model-Guided Data-Driven Decentralized Control for Magnetic Levitation Systems. IEEE Access, 2018, 6, 43546-43562.	4.2	10
63	New stability criteria for switched time-varying systems: Output-persistently exciting conditions. , 2011, , .		9
64	An investigation into the reliability of upper-limb robotic exoskeleton measurements for clinical evaluation in neurorehabilitation. , 2015, , .		9
65	Upper Limb Dewatering Using Underactuated End-Effector-Based Backdrivable Manipulanda. IEEE Robotics and Automation Letters, 2018, 3, 2116-2122.	5.1	9
66	Task-Space Synergies for Reaching Using Upper-Limb Prostheses. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2966-2977.	4.9	9
67	Online calibration of combustion phase in a diesel engine. Control Theory and Technology, 2017, 15, 129-137.	1.6	8
68	Model-based optimal auto-transition and control synthesis for tail-sitter UAV KH-Lion. , 2017, , .		8
69	Detectability and Uniform Global Asymptotic Stability in Switched Nonlinear Time-Varying Systems. IEEE Transactions on Automatic Control, 2020, 65, 2123-2138.	5.7	8
70	Improving $\hat{\sigma}_2$ Gain Performance of Linear Systems by Reset Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6400-6405.	0.4	7
71	Nonlinear model reference observer design for feedback control of a low temperature combustion diesel engine. , 2015, , .		7
72	Modeling of Endpoint Feedback Learning Implemented Through Point-to-Point Learning Control. IEEE Transactions on Control Systems Technology, 2017, 25, 1576-1585.	5.2	6

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73	Spatial Resolution of Visual Stimuli in SSVEP-based Brain-Computer Interface. , 2019, , .		6
74	Exploiting Inherent Human Motor Behaviour in the Online Personalisation of Human-Prosthetic Interfaces. IEEE Robotics and Automation Letters, 2021, 6, 1973-1980.	5.1	6
75	Learning based nonlinear internal model control. , 0, , .		5
76	Convergence and robustness of a point-to-point iterative learning control algorithm. , 2012, , .		5
77	Effects of robotic exoskeleton dynamics on joint recruitment in a neurorehabilitation context. , 2015, , .		5
78	Effect of sensory experience on motor learning strategy. Journal of Neurophysiology, 2015, 113, 1077-1084.	1.8	5
79	On detectability conditions in signal sets with application to switched systems. , 2016, , .		5
80	On V-shaped flight formation of bird flocks with visual communication constraints. , 2017, , .		5
81	Disturbance Rejection in Multi-DOF Local Magnetic Actuation for the Robotic Abdominal Surgery. IEEE Robotics and Automation Letters, 2018, 3, 1568-1575.	5.1	5
82	On-line Synergy Identification for Personalized Active Arm Prosthesis: a Feasibility Study. , 2018, , .		5
83	Input and Output Constraints in Iterative Learning Control Design for Robotic Manipulators. Unmanned Systems, 2018, 06, 197-208.	3.6	5
84	On implementation of feedback-based PD-type iterative learning control for robotic manipulators with hard input constraints. , 2019, , .		5
85	Effective Assessments of a Short-Duration Poor Posture on Upper Limb Muscle Fatigue Before Physical Exercise. Frontiers in Physiology, 2020, 11, 541974.	2.8	5
86	Promoting clinical best practice in a user-centred design study of an upper limb rehabilitation robot. Disability and Rehabilitation: Assistive Technology, 2022, 17, 531-538.	2.2	5
87	Remote State Estimation With Enhanced Robustness in the Presence of Data Packet Dropouts. IEEE Transactions on Automatic Control, 2022, 67, 6552-6566.	5.7	5
88	A dual Iterative Learning Control loops for cascade systems. , 2012, , .		4
89	On sign-definite pairs of functions. , 2014, , .		4
90	Electromagnetic Actuator Across Abdominal Wall for Minimally Invasive Robotic Surgery1. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.7	4

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91	Speed control of non-collocated stator-rotor synchronous motor with application in robotic surgery. , 2015, , .		4
92	A diesel engine combustion phasing optimization using a model guided extremum seeking approach. , 2016, , .		4
93	On the Relationship Between Human Motor Control Performance and Kinematic Synergies in Upper Limb Prosthetics. , 2018, 2018, 3194-3197.		4
94	Direct versus Indirect Visual Feedback: the Effect of Technology in Neurorehabilitation. , 2019, , .		4
95	On Model-guided Neural Networks for System Identification. , 2019, , .		4
96	Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. IEEE Transactions on Control of Network Systems, 2020, 7, 758-769.	3.7	4
97	Extremum Seeking Methods for Online Automotive Calibration. Lecture Notes in Control and Information Sciences, 2014, , 23-39.	1.0	4
98	On iterative learning control with high-order internal models. , 2009, , .		3
99	A dual-loop iterative learning control for nonlinear systems with hysteresis input uncertainty. , 2009, , .		3
100	Averaging for nonlinear systems on Riemannian manifolds. , 2013, , .		3
101	On on-line sampled-data optimal learning for dynamic systems with uncertainties. , 2013, , .		3
102	Multi-agent gradient climbing via extremum seeking control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9973-9978.	0.4	3
103	On robustness analysis of a vibrational control system: Input-to-state practical stability. , 2016, , .		3
104	Spatial Iterative Learning Control: Systems with input saturation. , 2017, , .		3
105	Feature Learning in Assistive Rehabilitation Robotic Systems. , 2018, 2018, 2511-2514.		3
106	Iterative Learning Control for Linear Time-varying Systems with Input and Output Constraints. , 2018, , .		3
107	Effects of varying the rest period on the onset angle of lumbar flexion-relaxation in simulated sheep shearing: a preliminary study. , 2019, 2019, 83-88.		3
108	On the Efficiency of Haptic Based Object Identification: Determining Where to Grasp to Get the Most Distinguishing Information. Frontiers in Robotics and AI, 2021, 8, 686490.	3.2	3

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109	Application of the extended technology acceptance model to explore clinician likelihood to use robotics in rehabilitation. <i>Disability and Rehabilitation: Assistive Technology</i> , 2024, 19, 52-59.	2.2	3
110	Separability of Input Features and the Resulting Accuracy in Classifying Target Poses for Active Transhumeral Prosthetic Interfaces. , 2021, 2021, 4615-4618.		3
111	New iterative learning control approaches for nonlinear non-affine MIMO dynamic systems. , 2001, , .		2
112	Nonlinear adaptive wavelet control using constructive wavelet networks. , 2001, , .		2
113	A new pointwise adaptive control approach for time-varying parameters with known periodicity. , 0, , .		2
114	On Stability Properties of A Simple Extremum Seeking Scheme. , 2006, , .		2
115	Modelling and control for an EMS system with two inputs. <i>International Journal of Modelling, Identification and Control</i> , 2012, 16, 190.	0.2	2
116	Assessment of gradient-based point-to-point ILC for MIMO systems with varying interaction. , 2012, , .		2
117	Point-to-point learning in human motor systems. , 2013, , .		2
118	Coordination of blind agents on Lie groups. , 2015, , .		2
119	Quantifying task similarity for skill generalisation in the context of human motor control. , 2016, , .		2
120	On non-local vibrational stabilization of nonlinear systems. , 2017, , .		2
121	A new condition for output-persistent-excitation of switched nonlinear time-varying systems. , 2017, , .		2
122	Time Scale Framework for Hybrid Systems. , 2018, , .		2
123	Robustness of Nonlinear Vibrational Control Systems based on Sampling Lyapunov Method. , 2018, , .		2
124	Generalized Switched Systems with Application to Hybrid Systems. , 2019, , .		2
125	Indirect Robotic Movement Shaping through Motor Cost Influence. , 2019, 2019, 977-982.		2
126	Model-Guided Data-Driven Optimization for Automotive Compression Ignition Engine Systems. <i>Mechanical Engineering</i> , 2019, 141, S16-S23.	0.1	2

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127	Limiting Behavior of Hybrid Time-Varying Systems. IEEE Transactions on Automatic Control, 2022, 67, 5777-5792.	5.7	2
128	Comparing the Outcomes of Population-averaged and Personalised Input Feature Selection for Transhumeral Prosthetic Interfaces. , 2021, , .		2
129	Task-Driven Formation of Nonholonomic Vehicles With Communication Constraints. IEEE Transactions on Control Systems Technology, 2023, 31, 442-450.	5.2	2
130	On a constructive adaptive wavelet control approach. , 2001, , .		1
131	Iterative learning control design based on composite energy function with input saturation. , 0, , .		1
132	Performance analysis of iterative algorithms for sylvester equations. , 2010, , .		1
133	Closeness of solutions and averaging for nonlinear systems on Riemannian manifolds. , 2013, , .		1
134	On iterative learning control for synchronization of MIMO heterogeneous systems. , 2013, , .		1
135	Trajectory-based proofs for sampled-data extremum seeking control. , 2013, , .		1
136	Extremum seeking control for nonlinear systems on compact Riemannian manifolds. , 2014, , .		1
137	Model-based predictive sampled-data control and its robustness. , 2015, , .		1
138	Calibration free upper limb joint motion estimation algorithm with wearable sensors. , 2016, , .		1
139	An Algorithm to Find Common Zeroing-Output Systems of Arbitrarily Switched Linear Time-Invariant Systems. IFAC-PapersOnLine, 2017, 50, 14867-14872.	0.9	1
140	Extended State Observer for Nonlinear Time-Varying Dynamic Systems. , 2018, , .		1
141	Optimization Methods on Riemannian Manifolds via Extremum Seeking Algorithms. SIAM Journal on Control and Optimization, 2018, 56, 3867-3892.	2.1	1
142	Reference State Trajectory Generation for Output Tracking with Constraints using Search Trees. , 2018, , .		1
143	On Feedback-Based Iterative Learning Control for Nonlinear Systems Without Global Lipschitz Continuity. , 2018, , .		1
144	Analysis and experimental verification of a current-cycle iterative learning control for robotic manipulators with output constraints. , 2019, , .		1

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145	An Iterative Learning Control Synthesis for Nonlinear Systems with Hard Input and Output Constraints. , 2019, , .		1
146	Inducing Human Motor Adaptation Without Explicit Error Feedback: A Motor Cost Approach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1403-1412.	4.9	1
147	Robustness of Vibrational Control in the Presence of Additive Disturbances. IEEE Transactions on Automatic Control, 2022, 67, 3112-3119.	5.7	1
148	Coverage control of mobile sensor networks with directional sensing. Mathematical Biosciences and Engineering, 2022, 19, 2913-2934.	1.9	1
149	Web Tension and Speed Control in Rewinding Systems using Active Disturbance Rejection Control. , 2021, , .		1
150	Model-guided extremum seeking case studies. International Journal of Adaptive Control and Signal Processing, 2022, 36, 708-728.	4.1	1
151	Beta Mixture Model for the Uncertainties in Robotic Haptic Object Identification. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1955-1963.	5.8	1
152	Analysis and robust optimal design of iteration learning control. , 0, , .		0
153	ON AUTOMATIC SEEKING OF OPTIMAL STEADY-STATES IN BIOCHEMICAL PROCESSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 733-738.	0.4	0
154	Sufficient Conditions for Stabilization of Sampled-data Linear Spatially Distributed Parameter Systems via Discrete time Approximations. , 2007, , .		0
155	Point-wise Extremum Seeking Control Scheme Under Repeatable Control Environment. , 2007, , .		0
156	Trajectory redundancy iterative learning control. , 2013, , .		0
157	On sampled-data extremum seeking control via stochastic approximation methods. , 2013, , .		0
158	Modeling and Control of Complex Networked Systems. Mathematical Problems in Engineering, 2014, 2014, 1-2.	1.1	0
159	On a new uniform dynamic coding algorithm for model-based networked control systems. , 2014, , .		0
160	Output feedback consensus tracking for second-order nonlinear multi-agent systems with directed communication graphs. , 2017, , .		0
161	Design of feedback gain in feedback-based iterative learning control. , 2017, , .		0
162	Sampled-data leader-following rendezvous with input saturation. , 2017, , .		0

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163	Editorial: Special Issue in Memory of the Late Professor Jian-Xin Xu. Unmanned Systems, 2018, 06, 145-146.	3.6	0
164	New Control Design for Switched Linear Time-Invariant Systems under Arbitrary Switching. , 2019, , .		0
165	Extremum Seeking Control in the Presence of Actuator Hysteresis. , 2019, , .		0
166	Psychometric Evaluation of Multi-Point Bone-Conducted Tactile Stimulation on the Three Bony Landmarks of the Elbow. , 2020, , .		0
167	Sensorless Force Estimator in Rehabilitation Robotics. Biosystems and Biorobotics, 2019, , 180-184.	0.3	0
168	Stability and Robustness Analysis of Switched Vibrational Control. , 2020, , .		0
169	A Generalized Matrosov Theorem for Signal Sets on Time Scales. , 2021, , .		0
170	A practical 3D-printed soft robotic prosthetic hand with multi-articulating capabilities. , 2020, 15, e0232766.		0
171	A practical 3D-printed soft robotic prosthetic hand with multi-articulating capabilities. , 2020, 15, e0232766.		0
172	A practical 3D-printed soft robotic prosthetic hand with multi-articulating capabilities. , 2020, 15, e0232766.		0
173	A practical 3D-printed soft robotic prosthetic hand with multi-articulating capabilities. , 2020, 15, e0232766.		0