Wei Lin

List of Publications by Year
in descending order

137 papers	6,961 citations	101543 36 h-index	60623 81 g-index
137 all docs	137 docs citations	137 times ranked	1994 citing authors

#	Article	IF	Citations
1	A continuous feedback approach to global strong stabilization of nonlinear systems. IEEE Transactions on Automatic Control, 2001, 46, 1061-1079.	5.7	1,034
2	Non-Lipschitz continuous stabilizers for nonlinear systems with uncontrollable unstable linearization. Systems and Control Letters, 2001, 42, 185-200.	2.3	685
3	Adaptive control of nonlinearly parameterized systems: the smooth feedback case. IEEE Transactions on Automatic Control, 2002, 47, 1249-1266.	5.7	497
4	Output feedback control of a class of nonlinear systems: a nonseparation principle paradigm. IEEE Transactions on Automatic Control, 2002, 47, 1710-1715.	5.7	473
5	Adaptive control of nonlinearly parameterized systems: a nonsmooth feedback framework. IEEE Transactions on Automatic Control, 2002, 47, 757-774.	5.7	317
6	Universal adaptive control of nonlinear systems with unknown growth rate by output feedback. Automatica, 2006, 42, 1783-1789.	5.0	251
7	Losslessness, feedback equivalence, and the global stabilization of discrete-time nonlinear systems. IEEE Transactions on Automatic Control, 1994, 39, 83-98.	5.7	238
8	Practical output tracking of nonlinear systems with uncontrollable unstable linearization. IEEE Transactions on Automatic Control, 2002, 47, 21-36.	5.7	203
9	Homogeneous Observers, Iterative Design, and Global Stabilization of High-Order Nonlinear Systems by Smooth Output Feedback. IEEE Transactions on Automatic Control, 2004, 49, 1069-1080.	5.7	186
10	Adaptive regulation of uncertain nonlinear systems by output feedback: A universal control approach. Systems and Control Letters, 2007, 56, 529-537.	2.3	142
11	Passivity and absolute stabilization of a class of discrete-time nonlinear systems. Automatica, 1995, 31, 263-267.	5.0	121
12	Robust output feedback stabilization of uncertain nonlinear systems with uncontrollable and unobservable linearization. IEEE Transactions on Automatic Control, 2005, 50, 619-630.	5.7	121
13	Adaptive output tracking of inherently nonlinear systems with nonlinear parameterization. IEEE Transactions on Automatic Control, 2003, 48, 1737-1749.	5.7	112
14	Adaptive regulation of high-order lower-triangular systems: an adding a power integrator technique. Systems and Control Letters, 2000, 39, 353-364.	2.3	103
15	Voltage and Frequency Regulation of Microgrid With Battery Energy Storage Systems. IEEE Transactions on Smart Grid, 2019, 10, 414-424.	9.0	103
16	Global asymptotic stabilization of general nonlinear systems with stable free dynamics via passivity and bounded feedback. Automatica, 1996, 32, 915-924.	5.0	102
17	Nonsmooth Feedback Control of Time-Delay Nonlinear Systems: A Dynamic Gain Based Approach. IEEE Transactions on Automatic Control, 2017, 62, 438-444.	5.7	98
18	Feedback stabilization of general nonlinear control systems: A passive system approach. Systems and Control Letters, 1995, 25, 41-52.	2.3	96

#	Article	IF	Citations
19	Robust control of uncertain systems with polynomial nonlinearity by output feedback. International Journal of Robust and Nonlinear Control, 2009, 19, 692-723.	3.7	92
20	Design of discrete-time nonlinear control systems via smooth feedback. IEEE Transactions on Automatic Control, 1994, 39, 2340-2346.	5.7	90
21	Remarks on linearization of discrete-time autonomous systems and nonlinear observer design. Systems and Control Letters, 1995, 25, 31-40.	2.3	84
22	On p-normal forms of nonlinear systems. IEEE Transactions on Automatic Control, 2003, 48, 1242-1248.	5.7	80
23	Synthesis of upper-triangular non-linear systems with marginally unstable free dynamics using state-dependent saturation. International Journal of Control, 1999, 72, 1078-1086.	1.9	72
24	Global robust stabilization of minimum-phase nonlinear systems with uncertainty. Automatica, 1997, 33, 453-462.	5.0	70
25	Robust regulation of a chain of power integrators perturbed by a lower-triangular vector field. International Journal of Robust and Nonlinear Control, 2000, 10, 397-421.	3.7	69
26	Further results on global stabilization of uncertain nonlinear systems by output feedback. International Journal of Robust and Nonlinear Control, 2005, 15, 247-268.	3.7	68
27	Smooth output feedback stabilization of planar systems without controllable/observable linearization. IEEE Transactions on Automatic Control, 2002, 47, 2068-2073.	5.7	61
28	Solutions to the output regulation problem of linear singular systems. Automatica, 1996, 32, 1713-1718.	5.0	54
29	Semi-global robust stabilization of MIMO nonlinear systems by partial state and dynamic output feedback. Automatica, 2001, 37, 1093-1101.	5.0	54
30	A remark on partial-state feedback stabilization of cascade systems using small gain theorem. IEEE Transactions on Automatic Control, 2003, 48, 497-500.	5.7	53
31	Nonsmooth adaptive stabilization of cascade systems with nonlinear parameterization via partial-state feedback. IEEE Transactions on Automatic Control, 2003, 48, 1809-1816.	5.7	51
32	discrete-time nonlinear H^{∞} control with measurement feedback. Automatica, 1995, 31, 419-434.	5.0	49
33	Global Stabilization of a Class of Nonminimum-Phase Nonlinear Systems by Sampled-Data Output Feedback. IEEE Transactions on Automatic Control, 2016, 61, 3076-3082.	5.7	48
34	Global stabilization of cascade systems by C/sup 0/ partial-state feedback. IEEE Transactions on Automatic Control, 2002, 47, 1356-1362.	5.7	44
35	Asymptotic Regulation of Time-Delay Nonlinear Systems With Unknown Control Directions. IEEE Transactions on Automatic Control, 2018, 63, 1495-1502.	5.7	42
36	Further results on global stabilization of discrete nonlinear systems. Systems and Control Letters, 1996, 29, 51-59.	2.3	36

#	Article	IF	Citations
37	Disturbance attenuation of a class of non-linear systems via output feedback. International Journal of Robust and Nonlinear Control, 2003, 13, 1359-1369.	3.7	36
38	Nonsmooth output feedback stabilization of a class of genuinely nonlinear systems in the plane. IEEE Transactions on Automatic Control, 2003, 48, 1824-1829.	5.7	34
39	Dynamic partial state feedback control of cascade systems with time-delay. Automatica, 2017, 77, 370-379.	5.0	34
40	A robust visual servo control system for narrow seam double head welding robot. International Journal of Advanced Manufacturing Technology, 2014, 71, 1849-1860.	3.0	33
41	A Dynamic Feedback Framework for Control of Time-Delay Nonlinear Systems With Unstable Zero Dynamics. IEEE Transactions on Automatic Control, 2020, 65, 3317-3332.	5.7	31
42	Semi-global stabilization of nonlinear systems by nonsmooth output feedback. International Journal of Robust and Nonlinear Control, 2014, 24, 2522-2545.	3.7	30
43	Global Stabilization by Memoryless Feedback for Nonlinear Systems With a Limited Input Delay and Large State Delays. IEEE Transactions on Automatic Control, 2021, 66, 3702-3709.	5.7	29
44	When Is a Nonlinear System Semiglobally Asymptotically Stabilizable by Digital Feedback?. IEEE Transactions on Automatic Control, 2020, 65, 4584-4599.	5.7	28
45	Memoryless linear feedback control for a class of upper-triangular systems with large delays in the state and input. Systems and Control Letters, 2020, 139, 104679.	2.3	28
46	UNIVERSAL OUTPUT FEEDBACK CONTROL OF NONLINEAR SYSTEMS WITH UNKNOWN GROWTH RATE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 1073-1078.	0.4	27
47	Voltage Regulation of DC-Microgrid With PV and Battery. IEEE Transactions on Smart Grid, 2020, 11, 4662-4675.	9.0	25
48	A note on global output regulation of nonlinear systems in the output feedback form. IEEE Transactions on Automatic Control, 2003, 48, 1049-1054.	5.7	23
49	Homogeneity with incremental degrees and global stabilisation of a class of high-order upper-triangular systems. International Journal of Control, 2012, 85, 1851-1864.	1.9	23
50	Excitation Voltage Control for Emergency Frequency Regulation of Island Power Systems With Voltage-Dependent Loads. IEEE Transactions on Power Systems, 2016, 31, 1204-1217.	6.5	23
51	A K-filter-based adaptive control for nonlinear systems with unknown parameters in state and output equations. Automatica, 2019, 105, 186-197.	5.0	23
52	Robust control of a family of uncertain nonminimumâ€phase systems via continuousâ€time and sampledâ€data output feedback. International Journal of Robust and Nonlinear Control, 2018, 28, 1440-1455.	3.7	22
53	Semiglobal Asymptotic Stabilization of Lower Triangular Systems by Digital Output Feedback. IEEE Transactions on Automatic Control, 2019, 64, 2135-2141.	5.7	22
54	On semi-global stabilizability of MIMO nonlinear systems by output feedback. Automatica, 2006, 42, 1049-1054.	5.0	21

#	Article	IF	Citations
55	A Dynamic Gain-Based Saturation Control Strategy for Feedforward Systems With Long Delays in State and Input. IEEE Transactions on Automatic Control, 2021, 66, 4357-4364.	5.7	20
56	Adaptive regulation of cascade systems with nonlinear parameterization. International Journal of Robust and Nonlinear Control, 2002, 12, 1093-1108.	3.7	19
57	Robust output feedback control of polynomial growth nonlinear systems with measurement uncertainty. International Journal of Robust and Nonlinear Control, 2019, 29, 4562-4576.	3.7	19
58	Input Delay Tolerance of Nonlinear Systems Under Smooth Feedback: A Semiglobal Control Framework. IEEE Transactions on Automatic Control, 2022, 67, 146-161.	5.7	19
59	Global regulation of a class of uncertain nonlinear systems using output feedback. , 0, , .		18
60	A Global Observer for Observable Autonomous Systems with Bounded Solution Trajectories. , 0, , .		18
61	Adaptive control of time-delay cascade systems with unknown parameters by partial state feedback. Automatica, 2018, 94, 45-54.	5.0	18
62	A global observer for autonomous systems with bounded trajectories. International Journal of Robust and Nonlinear Control, 2007, 17, 1088-1105.	3.7	17
63	Smoothing Tie-Line Power Fluctuations for Industrial Microgrids by Demand Side Control: An Output Regulation Approach. IEEE Transactions on Power Systems, 2019, 34, 3716-3728.	6.5	17
64	Asymptotic stabilization of nonlinear systems with long input delay via memoryless feedback: A linearization method. Automatica, 2021, 130, 109731.	5.0	15
65	Adaptive Robust Stabilization of a Family of Uncertain Nonlinear Systems by Output Feedback: The Non-polynomial Case. Proceedings of the American Control Conference, 2007, , .	0.0	14
66	Nonidentifierâ€based adaptive control for nonlinearly parameterized systems with measurement uncertainty. International Journal of Robust and Nonlinear Control, 2020, 30, 3055-3072.	3.7	14
67	New results and examples in semiglobal asymptotic stabilization of nonaffine systems by sampled-data output feedback. Systems and Control Letters, 2021, 148, 104850.	2.3	14
68	New results on global stabilization of feedforward systems via small feedback. , 0, , .		13
69	On discrete-time nonlinear control. , 1993, , .		11
70	L_gV-Type Adaptive Controllers for Uncertain Non-Affine Systems and Application to a DC-Microgrid with PV and Battery. IEEE Transactions on Automatic Control, 2019, 64, 2182-2189.	5.7	10
71	Static output feedback control of a chain of integrators with input constraints using multiple saturations and delays. Automatica, 2021, 125, 109457.	5.0	10
72	Zero-state observability and stability of discrete-time nonlinear systems. Automatica, 1995, 31, 269-274.	5.0	9

#	Article	IF	Citations
73	On p-normal form of nonlinear systems. , 0, , .		9
74	Error Feedback and a Servomechanism Problem for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2006, 51, 1184-1189.	5.7	9
75	Sampled-data control of a class of time-delay nonlinear systems via memoryless feedback. Systems and Control Letters, 2021, 157, 105048.	2.3	8
76	Output feedback stabilization of a class of homogeneous and high-order nonlinear systems. , 0, , .		7
77	Nonsmooth output feedback stabilization and tracking of a class of nonlinear systems. , 0, , .		7
78	A Dual Observer Method for Global Stabilization of Nonlinear Systems with Limited and Uncertain Information. Proceedings of the American Control Conference, 2007, , .	0.0	7
79	A Revisit of Marino-Tomei's Result on Output Feedback Control of a Class of Non-Minimum Phase Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 277-282.	0.4	7
80	Iterative Changing Supply Rates, Dynamic State Feedback, and Adaptive Stabilization of Time-Delay Systems. IEEE Transactions on Automatic Control, 2018, , 1-1.	5.7	7
81	Voltage Regulation of DC-Microgrid with PV and Battery: A Passivity Method. IFAC-PapersOnLine, 2019, 52, 753-758.	0.9	7
82	Digital control of a family of time-delay feedforward systems with sparse sampling. Systems and Control Letters, 2022, 163, 105200.	2.3	7
83	Finite-time stabilization in the large for uncertain nonlinear systems. , 2004, , .		6
84	Using an adaptive reduced-order observer for output feedback stabilization of uncertain cascade systems. , 2006, , .		6
85	Output feedback control of a class of nonminimum-phase nonlinear systems. International Journal of Robust and Nonlinear Control, 2016, 26, 3631-3644.	3.7	6
86	Robust stabilization of nonminimum-phase systems with uncertainty by sampled-data output feedback. , 2016, , .		6
87	Adaptive control of nonlinearly parameterized systems. , 0, , .		5
88	A Semiglobal Approach for Stabilizing Nonlinear Systems With State Delays by Memoryless Linear Feedback. IEEE Transactions on Automatic Control, 2022, 67, 6119-6126.	5.7	5
89	Using Memoryless Output Feedback to Semiglobally Stabilize a Class of SISO Nonlinear Systems With Input Delay. IEEE Transactions on Automatic Control, 2023, 68, 1870-1877.	5.7	5
90	Memoryless homogeneous control of time-delay nonlinear integrators and beyond. Automatica, 2022, 141, 110299.	5.0	5

#	ARTICLE	IF	CITATIONS
91	A further result on global stabilization of uncertain nonlinear systems by output feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 93-98.	0.4	4
92	Semi-Global Output Feedback Stabilization of Non-Uniformly Observable and Nonsmoothly Stabilizable Systems. , 0, , .		4
93	Robust stabilization of uncertain nonlinear systems by nonsmooth output feedback. , 0, , .		4
94	Robust Control of Uncertain Nonlinear Systems by Output Feedback. Proceedings of the American Control Conference, 2007, , .	0.0	4
95	Observer design for discrete-time nonlinear systems. , 2008, , .		4
96	Adaptive observer-based fault diagnosis for a class of MIMO nonlinear uncertain systems. , 2009, , .		4
97	Inverse hysteresis control for shape memory alloy micro-actuators based flap positioning system. , 2010, , .		4
98	Adaptive Regulation of Discrete-Time Nonaffine Systems With Parametric Uncertainty. IEEE Transactions on Automatic Control, 2021, 66, 2365-2371.	5.7	4
99	Sampled-Data Delayed Output Feedback Control of a Class of Nonlinear Systems. , 2022, 6, 2906-2911.		4
100	Robust Stabilization of Uncertain Systems with Measurement Sensitivity Using Output Feedback. , 2018, , .		3
101	Semi-Global Asymptotic Control by Sampled-Data Output Feedback. IFAC-PapersOnLine, 2018, 51, 596-601.	0.9	3
102	Stability Preservation of Nonlinear Systems With Sampled-Delayed Input. , 2022, 6, 2761-2766.		3
103	Adding a power integrator: a tool for global stabilization of high-order lower-triangular systems. , 0, , .		2
104	Reduced-order observer, homogeneous domination and nonsmooth output feedback stabilization of nonlinear systems. , 2008, , .		2
105	An implicit function based control scheme for discrete-time non-canonical form neural network systems. , 2017, , .		2
106	Nonsmooth feedback stabilization of a class of nonlinear systems with unknown control direction and time delay. International Journal of Robust and Nonlinear Control, 2018, 28, 5358-5374.	3.7	2
107	Adaptive Regulation of Hypersonic Vehicle Systems with Partial Nonlinear Parametrization. , 2018, , .		2
108	Global asymptotic tracking for nonminimumâ€phase nonlinear systems in output feedback form. International Journal of Robust and Nonlinear Control, 2020, 30, 4485-4502.	3.7	2

#	Article	IF	Citations
109	Semiglobal asymptotic stabilization of nonlinear systems with triangular zero dynamics by linear feedback. Automatica, 2020, 115, 108870.	5.0	2
110	Adaptive Control of Nonlinear Systems with Unknown Parameters by Output Feedback: A Non-Identifier-Based Method. , 2008, , 445-463.		2
111	ON FINITE-TIME STABILIZATION OF A CLASS OF NONSMOOTHLY STABILIZABLE SYSTEMS. , 2007, , .		2
112	Adaptive regulation of high-order cascade systems: an adding one power integrator approach. , 0, , .		1
113	Discontinuous controllers for high-order nonholonomic systems in power chained form. , 2000, , .		1
114	Non-smooth stabilizers for nonlinear systems with uncontrollable unstable linearization. , 0, , .		1
115	Output feedback stabilization of planar systems with uncontrollable/unobservable linearization. , 0, , .		1
116	Universal stabilization of a class of nonlinear systems by output feedback. , 0, , .		1
117	Remote master-slave control of a 6D manipulator for cardiac surgery application. , 2014, , .		1
118	Synchronization via sampled-data output-feedback for a class of chaotic systems. , 2014, , .		1
119	B-spline based Motion Tracking of Cardiac Surface in Minimally Invasive Surgery. , 2017, , .		1
120	Universal Adaptive Control via Output Feedback for Nonlinear Systems with Parametric and Measurement Uncertainty. , 2018, , .		1
121	Adaptive Control of a General Class of Upper Triangular Systems with Parametric Uncertainty. , 2019, , .		1
122	Linear Controllability and Observability of n-Link Underactuated Planar Revolute Robot Moving in Constantly Rotating Frame in Horizontal Plane. , 2019, , .		1
123	Relative Degrees and Implicit Function-Based Control of Discrete-Time Noncanonical Form Neural Network Systems. IEEE Transactions on Cybernetics, 2020, 50, 514-524.	9.5	1
124	Robust Control of Time-Delay Uncertain Systems by Delay-Free Output Feedback. , 2020, , .		1
125	A framework for global stabilization of nonlinear systems by continuous state feedback. , 0, , .		0
126	New results on regulation of nonlinear systems in power chained form. , 2002, , .		0

#	Article	IF	Citations
127	Adaptive stabilization of nonlinearly parameterized systems by C^0 partial-state feedback. , 0, , .		0
128	Global output regulation of cascade systems by time-varying partial state feedback. , 0, , .		0
129	Robust stabilization of uncertain high order systems via smooth output feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 65-72.	0.4	0
130	Authors' reply [to comments on 'A remark on partial-state feedback stabilization of cascade systems using small gain theorem'. IEEE Transactions on Automatic Control, 2005, 50, 928-929.	5.7	0
131	A robust servomechanism problem for uncertain nonlinear systems. , 2006, , .		0
132	Bounded control of dual-excited synchronous generator by using a passivity-based approach. , 2011, , .		0
133	Sampled-data output feedback control for a class of nonminimum-phase nonlinear systems. , 2015, , .		0
134	A novel control strategy for microgrid voltage and frequency regulation with electronic converters. , 2017, , .		0
135	Control separation based LQ disturbance rejection for output tracking. , 2017, , .		0
136	Global Stabilization of a Class of Time-Delay Nonlinear Systems with Unknown Control Directions by Nonsmooth Feedback. IFAC-PapersOnLine, 2018, 51, 78-83.	0.9	0
137	Adaptive Stabilization of Uncertain Non-Affine Systems with Nonlinear Parameterization. IFAC-PapersOnLine, 2018, 51, 616-621.	0.9	0