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	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
2	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
3	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
4	Digital control of a family of time-delay feedforward systems with sparse sampling. Systems and Control Letters, 2022, 163, 105200.	2.3	7
5	Memoryless homogeneous control of time-delay nonlinear integrators and beyond. Automatica, 2022, 141, 110299.	5.0	5
6	Stability Preservation of Nonlinear Systems With Sampled-Delayed Input. , 2022, 6, 2761-2766.		3
7	Sampled-Data Delayed Output Feedback Control of a Class of Nonlinear Systems. , 2022, 6, 2906-2911.		4
8	Adaptive Regulation of Discrete-Time Nonaffine Systems With Parametric Uncertainty. IEEE Transactions on Automatic Control, 2021, 66, 2365-2371.	5.7	4
9	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
10	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
11	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
12	Static output feedback control of a chain of integrators with input constraints using multiple saturations and delays. Automatica, 2021, 125, 109457.	5.0	10
13	Asymptotic stabilization of nonlinear systems with long input delay via memoryless feedback: A linearization method. Automatica, 2021, 130, 109731.	5.0	15
14	Sampled-data control of a class of time-delay nonlinear systems via memoryless feedback. Systems and Control Letters, 2021, 157, 105048.	2.3	8
15	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
16	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
17	Robust Control of Time-Delay Uncertain Systems by Delay-Free Output Feedback. , 2020, , .		1
18	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

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19	Voltage Regulation of DC-Microgrid With PV and Battery. IEEE Transactions on Smart Grid, 2020, 11, 4662-4675.	9.0	25
20	Nonidentifier‐based adaptive control for nonlinearly parameterized systems with measurement uncertainty. International Journal of Robust and Nonlinear Control, 2020, 30, 3055-3072.	3.7	14
21	Semiglobal asymptotic stabilization of nonlinear systems with triangular zero dynamics by linear feedback. Automatica, 2020, 115, 108870.	5.0	2
22	When Is a Nonlinear System Semiglobally Asymptotically Stabilizable by Digital Feedback?. IEEE Transactions on Automatic Control, 2020, 65, 4584-4599.	5.7	28
23	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
24	Semiglobal Asymptotic Stabilization of Lower Triangular Systems by Digital Output Feedback. IEEE Transactions on Automatic Control, 2019, 64, 2135-2141.	5.7	22
25	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
26	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
27	Adaptive Control of a General Class of Upper Triangular Systems with Parametric Uncertainty. , 2019, , .		1
28	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
29	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
30	Linear Controllability and Observability of n-Link Underactuated Planar Revolute Robot Moving in Constantly Rotating Frame in Horizontal Plane. , 2019, , .		1
31	Voltage Regulation of DC-Microgrid with PV and Battery: A Passivity Method. IFAC-PapersOnLine, 2019, 52, 753-758.	0.9	7
32	Voltage and Frequency Regulation of Microgrid With Battery Energy Storage Systems. IEEE Transactions on Smart Grid, 2019, 10, 414-424.	9.0	103
33	Adaptive control of time-delay cascade systems with unknown parameters by partial state feedback. Automatica, 2018, 94, 45-54.	5.0	18
34	Robust control of a family of uncertain nonminimum‐phase systems via continuous‐time and sampled‐data output feedback. International Journal of Robust and Nonlinear Control, 2018, 28, 1440-1455.	3.7	22
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	Universal Adaptive Control via Output Feedback for Nonlinear Systems with Parametric and Measurement Uncertainty. , 2018, , .		1

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37	Robust Stabilization of Uncertain Systems with Measurement Sensitivity Using Output Feedback. , 2018, , .		3
38	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
39	Adaptive Stabilization of Uncertain Non-Affine Systems with Nonlinear Parameterization. IFAC-PapersOnLine, 2018, 51, 616-621.	0.9	0
40	Semi-Global Asymptotic Control by Sampled-Data Output Feedback. IFAC-PapersOnLine, 2018, 51, 596-601.	0.9	3
41	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
42	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
43	Adaptive Regulation of Hypersonic Vehicle Systems with Partial Nonlinear Parametrization. , 2018, , .		2
44	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
45	Dynamic partial state feedback control of cascade systems with time-delay. Automatica, 2017, 77, 370-379.	5.0	34
46	A novel control strategy for microgrid voltage and frequency regulation with electronic converters. , 2017, , .		0
47	Control separation based LQ disturbance rejection for output tracking. , 2017, , .		0
48	An implicit function based control scheme for discrete-time non-canonical form neural network systems. , 2017, , .		2
49	B-spline based Motion Tracking of Cardiac Surface in Minimally Invasive Surgery. , 2017, , .		1
50	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
51	Robust stabilization of nonminimum-phase systems with uncertainty by sampled-data output feedback. , 2016, , .		6
52	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
53	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
54	Sampled-data output feedback control for a class of nonminimum-phase nonlinear systems. , 2015, , .		0

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55	Remote master-slave control of a 6D manipulator for cardiac surgery application. , 2014, , .		1
56	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
57	Semi-global stabilization of nonlinear systems by nonsmooth output feedback. International Journal of Robust and Nonlinear Control, 2014, 24, 2522-2545.	3.7	30
58	Synchronization via sampled-data output-feedback for a class of chaotic systems. , 2014, , .		1
59	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
60	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
61	Bounded control of dual-excited synchronous generator by using a passivity-based approach. , 2011, , .		0
62	Inverse hysteresis control for shape memory alloy micro-actuators based flap positioning system. , 2010, , .		4
63	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
64	Adaptive observer-based fault diagnosis for a class of MIMO nonlinear uncertain systems. , 2009, , .		4
65	Reduced-order observer, homogeneous domination and nonsmooth output feedback stabilization of nonlinear systems. , 2008, , .		2
66	Observer design for discrete-time nonlinear systems. , 2008, , .		4
67	Adaptive Control of Nonlinear Systems with Unknown Parameters by Output Feedback: A Non-Identifier-Based Method. , 2008, , 445-463.		2
68	Robust Control of Uncertain Nonlinear Systems by Output Feedback. Proceedings of the American Control Conference, 2007, , .	0.0	4
69	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
70	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
71	Adaptive regulation of uncertain nonlinear systems by output feedback: A universal control approach. Systems and Control Letters, 2007, 56, 529-537.	2.3	142
72	A global observer for autonomous systems with bounded trajectories. International Journal of Robust and Nonlinear Control, 2007, 17, 1088-1105.	3.7	17

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73	ON FINITE-TIME STABILIZATION OF A CLASS OF NONSMOOTHLY STABILIZABLE SYSTEMS. , 2007, , .		2
74	Universal adaptive control of nonlinear systems with unknown growth rate by output feedback. Automatica, 2006, 42, 1783-1789.	5.0	251
75	On semi-global stabilizability of MIMO nonlinear systems by output feedback. Automatica, 2006, 42, 1049-1054.	5.0	21
76	Using an adaptive reduced-order observer for output feedback stabilization of uncertain cascade systems. , 2006, , .		6
77	Error Feedback and a Servomechanism Problem for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2006, 51, 1184-1189.	5.7	9
78	A robust servomechanism problem for uncertain nonlinear systems. , 2006, , .		0
79	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
80	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
81	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
82	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
83	Finite-time stabilization in the large for uncertain nonlinear systems. , 2004, , .		6
84	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
85	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
86	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
87	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
88	Adaptive output tracking of inherently nonlinear systems with nonlinear parameterization. IEEE Transactions on Automatic Control, 2003, 48, 1737-1749.	5.7	112
89	On p-normal forms of nonlinear systems. IEEE Transactions on Automatic Control, 2003, 48, 1242-1248.	5.7	80
90	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

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91	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
92	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
93	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
94	Global stabilization of cascade systems by C/sup 0/ partial-state feedback. IEEE Transactions on Automatic Control, 2002, 47, 1356-1362.	5.7	44
95	New results on regulation of nonlinear systems in power chained form. , 2002, , .		0
96	Adaptive control of nonlinearly parameterized systems: the smooth feedback case. IEEE Transactions on Automatic Control, 2002, 47, 1249-1266.	5.7	497
97	Adaptive control of nonlinearly parameterized systems: a nonsmooth feedback framework. IEEE Transactions on Automatic Control, 2002, 47, 757-774.	5.7	317
98	Practical output tracking of nonlinear systems with uncontrollable unstable linearization. IEEE Transactions on Automatic Control, 2002, 47, 21-36.	5.7	203
99	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
100	Smooth output feedback stabilization of planar systems without controllable/observable linearization. IEEE Transactions on Automatic Control, 2002, 47, 2068-2073.	5.7	61
101	Adaptive regulation of cascade systems with nonlinear parameterization. International Journal of Robust and Nonlinear Control, 2002, 12, 1093-1108.	3.7	19
102	A continuous feedback approach to global strong stabilization of nonlinear systems. IEEE Transactions on Automatic Control, 2001, 46, 1061-1079.	5.7	1,034
103	Non-Lipschitz continuous stabilizers for nonlinear systems with uncontrollable unstable linearization. Systems and Control Letters, 2001, 42, 185-200.	2.3	685
104	Semi-global robust stabilization of MIMO nonlinear systems by partial state and dynamic output feedback. Automatica, 2001, 37, 1093-1101.	5.0	54
105	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
106	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
107	Discontinuous controllers for high-order nonholonomic systems in power chained form. , 2000, , .		1
108	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

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109	Global robust stabilization of minimum-phase nonlinear systems with uncertainty. Automatica, 1997, 33, 453-462.	5.0	70
110	Global asymptotic stabilization of general nonlinear systems with stable free dynamics via passivity and bounded feedback. Automatica, 1996, 32, 915-924.	5.0	102
111	Further results on global stabilization of discrete nonlinear systems. Systems and Control Letters, 1996, 29, 51-59.	2.3	36
112	Solutions to the output regulation problem of linear singular systems. Automatica, 1996, 32, 1713-1718.	5.0	54
113	Passivity and absolute stabilization of a class of discrete-time nonlinear systems. Automatica, 1995, 31, 263-267.	5.0	121
114	Zero-state observability and stability of discrete-time nonlinear systems. Automatica, 1995, 31, 269-274.	5.0	9
115	discrete-time nonlinear Hâˆž control with measurement feedback. Automatica, 1995, 31, 419-434.	5.0	49
116	Remarks on linearization of discrete-time autonomous systems and nonlinear observer design. Systems and Control Letters, 1995, 25, 31-40.	2.3	84
117	Feedback stabilization of general nonlinear control systems: A passive system approach. Systems and Control Letters, 1995, 25, 41-52.	2.3	96
118	Design of discrete-time nonlinear control systems via smooth feedback. IEEE Transactions on Automatic Control, 1994, 39, 2340-2346.	5.7	90
119	Losslessness, feedback equivalence, and the global stabilization of discrete-time nonlinear systems. IEEE Transactions on Automatic Control, 1994, 39, 83-98.	5.7	238
120	On discrete-time nonlinear control. , 1993, , .		11
121	New results on global stabilization of feedforward systems via small feedback. , 0, , .		13
122	Adaptive regulation of high-order cascade systems: an adding one power integrator approach. , 0, , .		1
123	Adding a power integrator: a tool for global stabilization of high-order lower-triangular systems. , 0, , .		2
124	Non-smooth stabilizers for nonlinear systems with uncontrollable unstable linearization. , 0, , .		1
125	A framework for global stabilization of nonlinear systems by continuous state feedback. , 0, , .		0
126	Adaptive control of nonlinearly parameterized systems. , 0, , .		5

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127	Output feedback stabilization of planar systems with uncontrollable/unobservable linearization. , 0, , .		1
128	Universal stabilization of a class of nonlinear systems by output feedback. , 0, , .		1
129	On p-normal form of nonlinear systems. , 0, , .		9
130	Adaptive stabilization of nonlinearly parameterized systems by CÂ° partial-state feedback. , 0, , .		0
131	Global regulation of a class of uncertain nonlinear systems using output feedback. , 0, , .		18
132	Output feedback stabilization of a class of homogeneous and high-order nonlinear systems. , 0, , .		7
133	Nonsmooth output feedback stabilization and tracking of a class of nonlinear systems. , 0, , .		7
134	Global output regulation of cascade systems by time-varying partial state feedback. , 0, , .		0
135	Semi-Global Output Feedback Stabilization of Non-Uniformly Observable and Nonsmoothly Stabilizable Systems. , 0, , .		4
136	A Global Observer for Observable Autonomous Systems with Bounded Solution Trajectories. , 0, , .		18
137	Robust stabilization of uncertain nonlinear systems by nonsmooth output feedback. , 0, , .		4