Lei Guo

List of Publications by Year
in descending order

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36	1,925	361413 20	414414 32
papers	citations	h-index	g-index

36	36	36	698
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification and Stochastic Adaptive Control. Systems and Control: Foundations and Applications, 1991, , .	0.3	368
2	The AAstrom-Wittenmark self-tuning regulator revisited and ELS-based adaptive trackers. IEEE Transactions on Automatic Control, 1991, 36, 802-812.	5.7	179
3	How much uncertainty can be dealt with by feedback?. IEEE Transactions on Automatic Control, 2000, 45, 2203-2217.	5.7	172
4	Convergence rate of least-squares identification and adaptive control for stochastic systemsâ€. International Journal of Control, 1986, 44, 1459-1476.	1.9	147
5	PID controller design for second order nonlinear uncertain systems. Science China Information Sciences, 2017, 60, 1.	4.3	113
6	Performance analysis of general tracking algorithms. IEEE Transactions on Automatic Control, 1995, 40, 1388-1402.	5.7	112
7	Control of uncertain nonlinear systems based on observers and estimators. Automatica, 2015, 59, 35-47.	5.0	98
8	Convergence and logarithm laws of self-tuning regulators. Automatica, 1995, 31, 435-450.	5.0	94
9	Stability of Recursive Stochastic Tracking Algorithms. SIAM Journal on Control and Optimization, 1994, 32, 1195-1225.	2.1	80
10	Theory and Design of PID Controller for Nonlinear Uncertain Systems. , 2019, 3, 643-648.		72
11	Exponential stability of general tracking algorithms. IEEE Transactions on Automatic Control, 1995, 40, 1376-1387.	5.7	52
12	A parameter formula connecting PID and ADRC. Science China Information Sciences, 2020, 63, 1.	4.3	50
13	Necessary and sufficient conditions for stability of LMS. IEEE Transactions on Automatic Control, 1997, 42, 761-770.	5.7	40
14	Control of Nonlinear Uncertain Systems by Extended PID. IEEE Transactions on Automatic Control, 2021, 66, 3840-3847.	5.7	40
15	Analysis of Distributed Adaptive Filters Based on Diffusion Strategies Over Sensor Networks. IEEE Transactions on Automatic Control, 2018, 63, 3643-3658.	5.7	31
16	A note on overshoot estimation in pole placements. Journal of Control Theory and Applications, 2004, 2, 161-164.	0.8	29
17	Controllability of Nash Equilibrium in Game-Based Control Systems. IEEE Transactions on Automatic Control, 2019, 64, 4180-4187.	5.7	26
18	Controllability of Stochastic Game-Based Control Systems. SIAM Journal on Control and Optimization, 2019, 57, 3799-3826.	2.1	24

#	Article	IF	Citations
19	Feedback and uncertainty: Some basic problems and results. Annual Reviews in Control, 2020, 49, 27-36.	7.9	24
20	On the Capability of PID Control for Nonlinear Uncertain Systems. IFAC-PapersOnLine, 2017, 50, 1521-1526.	0.9	23
21	Analysis of Normalized Least Mean Squares-Based Consensus Adaptive Filters under a General Information Condition. SIAM Journal on Control and Optimization, 2018, 56, 3404-3431.	2.1	22
22	Uncoupled PID Control of Coupled Multi-Agent Nonlinear Uncertain systems. Journal of Systems Science and Complexity, 2018, 31, 4-21.	2.8	17
23	Towards a theoretical foundation of PID control for uncertain nonlinear systems. Automatica, 2022, 142, 110360.	5.0	17
24	Convergence of a Distributed Least Squares. IEEE Transactions on Automatic Control, 2021, 66, 4952-4959.	5.7	14
25	A necessary and sufficient condition for stability of LMS-based consensus adaptive filters. Automatica, 2018, 93, 12-19.	5.0	13
26	Performance bounds of distributed adaptive filters with cooperative correlated signals. Science China Information Sciences, 2016, 59, 1.	4.3	10
27	New Tuning Methods of Both PID and ADRC for MIMO Coupled Nonlinear Uncertain Systems. IFAC-PapersOnLine, 2020, 53, 1325-1330.	0.9	9
28	Stability of Diffusion Adaptive Filters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10409-10414.	0.4	8
29	PID Control for a Class of Non-Affine Uncertain Systems. , 2018, , .		8
30	Analysis of compressed distributed adaptive filters. Automatica, 2020, 112, 108707.	5.0	7
31	An ADRCâ€based PID tuning rule. International Journal of Robust and Nonlinear Control, 2022, 32, 9542-9555.	3.7	7
32	Stability of distributed LMS under cooperative stochastic excitation. , 2015, , .		5
33	Performance analysis of distributed adaptive filters. Communications in Information and Systems, 2015, 15, 453-476.	0.5	5
34	PID Control of Nonlinear Stochastic Systems with Structural Uncertainties. IFAC-PapersOnLine, 2020, 53, 2189-2194.	0.9	4
35	Stabilizability of Game-Based Control Systems. SIAM Journal on Control and Optimization, 2021, 59, 3999-4023.	2.1	4
36	Global EPD regulation of uncertain nonlinear systems without global normal forms. International Journal of Robust and Nonlinear Control, 0, , .	3.7	1