

Bao-Zhu Guo

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72 papers	3,514 citations	31 h-index	59 g-index
82 ext. papers	4,493 ext. citations	3 avg, IF	6.19 L-index

#	Paper	IF	Citations
72	On the convergence of an extended state observer for nonlinear systems with uncertainty. <i>Systems and Control Letters</i> , 2011 , 60, 420-430	2.4	461
71	Stability and Stabilization of Infinite Dimensional Systems with Applications. <i>Communications and Control Engineering</i> , 1999 ,	0.6	238
70	On Convergence of the Nonlinear Active Disturbance Rejection Control for MIMO Systems. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 1727-1757	1.9	177
69	The active disturbance rejection and sliding mode control approach to the stabilization of the Euler-Bernoulli beam equation with boundary input disturbance. <i>Automatica</i> , 2013 , 49, 2911-2918	5.7	155
68	Output-feedback stabilization of an unstable wave equation. <i>Automatica</i> , 2008 , 44, 63-74	5.7	150
67	On convergence of tracking differentiator. <i>International Journal of Control</i> , 2011 , 84, 693-701	1.5	142
66	Sliding Mode and Active Disturbance Rejection Control to Stabilization of One-Dimensional Anti-Stable Wave Equations Subject to Disturbance in Boundary Input. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1269-1274	5.9	130
65	Riesz Basis Approach to the Stabilization of a Flexible Beam with a Tip Mass. <i>SIAM Journal on Control and Optimization</i> , 2001 , 39, 1736-1747	1.9	106
64	Lyapunov approach to output feedback stabilization for the Euler-Bernoulli beam equation with boundary input disturbance. <i>Automatica</i> , 2015 , 52, 95-102	5.7	103
63	The Active Disturbance Rejection Control to Stabilization for Multi-Dimensional Wave Equation With Boundary Control Matched Disturbance. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 143-157	5.9	97
62	Active Disturbance Rejection Control Approach to Output-Feedback Stabilization of a Class of Uncertain Nonlinear Systems Subject to Stochastic Disturbance. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1613-1618	5.9	83
61	Arbitrary Decay Rate for Euler-Bernoulli Beam by Backstepping Boundary Feedback. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1134-1140	5.9	79
60	Sliding mode control and active disturbance rejection control to the stabilization of one-dimensional Schrödinger equation subject to boundary control matched disturbance. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 2194-2212	3.6	78
59	A nonlinear extended state observer based on fractional power functions. <i>Automatica</i> , 2017 , 81, 286-296	5.7	75
58	A New Active Disturbance Rejection Control to Output Feedback Stabilization for a One-Dimensional Anti-Stable Wave Equation With Disturbance. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3774-3787	5.9	71
57	The Stabilization of a One-Dimensional Wave Equation by Boundary Feedback With Noncollocated Observation. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 371-377	5.9	68
56	On active disturbance rejection control for nonlinear systems using time-varying gain. <i>European Journal of Control</i> , 2015 , 23, 62-70	2.5	66

55	Shear force feedback control of a single-link flexible robot with a revolute joint. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 53-65	5.9	64
54	Active disturbance rejection control: Old and new results. <i>Annual Reviews in Control</i> , 2017 , 44, 238-248	10.3	63
53	Controllability and stability of a second-order hyperbolic system with collocated sensor/actuator. <i>Systems and Control Letters</i> , 2002 , 46, 45-65	2.4	60
52	Boundary Controllers and Observers for the Linearized Schrödinger Equation. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 1479-1497	1.9	58
51	Extended state observer for uncertain lower triangular nonlinear systems. <i>Systems and Control Letters</i> , 2015 , 85, 100-108	2.4	57
50	Parameter Estimation and Non-Collocated Adaptive Stabilization for a Wave Equation Subject to General Boundary Harmonic Disturbance. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1631-1643	5.9	57
49	. <i>IEEE Transactions on Automation Science and Engineering</i> , 1995 , 11, 760-765		54
48	Output tracking for a class of nonlinear systems with mismatched uncertainties by active disturbance rejection control. <i>Systems and Control Letters</i> , 2017 , 100, 21-31	2.4	53
47	On Convergence of Nonlinear Active Disturbance Rejection Control for SISO Nonlinear Systems. <i>Journal of Dynamical and Control Systems</i> , 2016 , 22, 385-412	1.1	51
46	The strong stabilization of a one-dimensional wave equation by non-collocated dynamic boundary feedback control. <i>Automatica</i> , 2009 , 45, 790-797	5.7	43
45	Stabilization and regulator design for a one-dimensional unstable wave equation with input harmonic disturbance. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 514-533	3.6	40
44	Boundary Feedback Stabilization for an Unstable Time Fractional Reaction Diffusion Equation. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 75-101	1.9	37
43	Lyapunov approach to the boundary stabilisation of a beam equation with boundary disturbance. <i>International Journal of Control</i> , 2014 , 87, 925-939	1.5	33
42	On the -semigroup generation and exponential stability resulting from a shear force feedback on a rotating beam. <i>Systems and Control Letters</i> , 2005 , 54, 557-574	2.4	33
41	The active disturbance rejection control approach to stabilisation of coupled heat and ODE system subject to boundary control matched disturbance. <i>International Journal of Control</i> , 2015 , 88, 1554-1564	1.5	31
40	Stabilization of Euler-Bernoulli Beam Equation with Boundary Moment Control and Disturbance by Active Disturbance Rejection Control and Sliding Mode Control Approaches. <i>Journal of Dynamical and Control Systems</i> , 2014 , 20, 539-558	1.1	30
39	Adaptive Output Feedback Stabilization for One-Dimensional Wave Equation with Corrupted Observation by Harmonic Disturbance. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 1679-1706	1.9	28
38	Parameter estimation and stabilization for a wave equation with boundary output harmonic disturbance and non-collocated control. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 1297-1321	3.6	28

37	Adaptive stabilization for a Kirchhoff-type nonlinear beam under boundary output feedback control. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2007 , 66, 427-441	1.3	28
36	Active Disturbance Rejection Control for Rejecting Boundary Disturbance from Multidimensional Kirchhoff Plate via Boundary Control. <i>SIAM Journal on Control and Optimization</i> , 2014 , 52, 2800-2830	1.9	26
35	Linear tracking-differentiator and application to online estimation of the frequency of a sinusoidal signal with random noise perturbation. <i>International Journal of Systems Science</i> , 2002 , 33, 351-358	2.3	26
34	Backstepping approach to the arbitrary decay rate for EulerBernoulli beam under boundary feedback. <i>International Journal of Control</i> , 2010 , 83, 2098-2106	1.5	23
33	Active disturbance rejection control approach to stabilization of lower triangular systems with uncertainty. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 2314-2337	3.6	23
32	Output feedback stabilization of an unstable wave equation with general corrupted boundary observation. <i>Automatica</i> , 2014 , 50, 3164-3172	5.7	22
31	The Lyapunov approach to boundary stabilization of an anti-stable one-dimensional wave equation with boundary disturbance. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 54-69	3.6	22
30	Output feedback stabilisation for a cascaded wave PDE-ODE system subject to boundary control matched disturbance. <i>International Journal of Control</i> , 2016 , 89, 2396-2405	1.5	21
29	On convergence of nonlinear active disturbance rejection for SISO systems 2012 ,		21
28	Observer Design and Exponential Stabilization for Wave Equation in Energy Space by Boundary Displacement Measurement Only. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1438-1444	5.9	18
27	Arbitrary decay rate for two connected strings with joint anti-damping by boundary output feedback. <i>Automatica</i> , 2010 , 46, 1203-1209	5.7	17
26	Stabilisation of unstable cascaded heat partial differential equation system subject to boundary disturbance. <i>IET Control Theory and Applications</i> , 2016 , 10, 1027-1039	2.5	16
25	Parameter estimation and stabilisation for a one-dimensional wave equation with boundary output constant disturbance and non-collocated control. <i>International Journal of Control</i> , 2011 , 84, 381-395	1.5	15
24	Review and new theoretical perspectives on active disturbance rejection control for uncertain finite-dimensional and infinite-dimensional systems. <i>Nonlinear Dynamics</i> , 2020 , 101, 935-959	5	15
23	Stabilization of the EulerBernoulli equation via boundary connection with heat equation. <i>Mathematics of Control, Signals, and Systems</i> , 2014 , 26, 77-118	1.3	14
22	Active disturbance rejection control approach to output-feedback stabilization of lower triangular nonlinear systems with stochastic uncertainty. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 2773-2797	3.6	13
21	Boundary output tracking for an EulerBernoulli beam equation with unmatched perturbations from a known exosystem. <i>Automatica</i> , 2019 , 109, 108507	5.7	12
20	Stabilization of an abstract second order system with application to wave equations under non-collocated control and observations. <i>Systems and Control Letters</i> , 2009 , 58, 334-341	2.4	10

19	Stabilization of ODE with hyperbolic equation actuator subject to boundary control matched disturbance. <i>International Journal of Control</i> , 2019 , 92, 12-26	1.5	10
18	Distributed disturbance estimator and application to stabilization for multi-dimensional wave equation with corrupted boundary observation. <i>Automatica</i> , 2016 , 66, 25-33	5.7	9
17	Active Disturbance Rejection Control: from ODEs to PDEs**This work was carried out with the support of the National Natural Science Foundation of China and the National Research Foundation of South Africa.. <i>IFAC-PapersOnLine</i> , 2016 , 49, 278-283	0.7	8
16	Output feedback stabilization for multi-dimensional Kirchhoff plate with general corrupted boundary observation. <i>European Journal of Control</i> , 2016 , 28, 38-48	2.5	7
15	Extended state observer for MIMO nonlinear systems with stochastic uncertainties. <i>International Journal of Control</i> , 2020 , 93, 424-436	1.5	7
14	Active Disturbance Rejection Control for a 2D Hyperbolic System with an Input Disturbance. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 11385-11390		6
13	Riesz Basis Approach to the Tracking Control of a Flexible Beam with a Tip Rigid Body without Dissipativity. <i>Optimization Methods and Software</i> , 2002 , 17, 655-681	1.3	6
12	Absolute boundary stabilization for an axially moving Kirchhoff beam. <i>Automatica</i> , 2021 , 129, 109667	5.7	5
11	A high gain free extended state observer to output feedback stabilization of one-dimensional unstable wave equation 2016 ,		4
10	Disturbance estimator based output feedback stabilizing control for an Euler-Bernoulli beam equation with boundary uncertainty 2017 ,		3
9	2015 ,		3
8	2013 ,		1
7	Output feedback stabilization for 1-D wave equation with variable coefficients and non-collocated observation. <i>Systems and Control Letters</i> , 2020 , 145, 104780	2.4	1
6	On convergence of nonlinear extended stated observers with switching functions 2016 ,		1
5	Robust Tracking Error Feedback Control for a One-Dimensional Schrodinger Equation. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
4	Arbitrary decay for boundary stabilization of Schrödinger equation subject to unknown disturbance by Lyapunov approach. <i>IFAC Journal of Systems and Control</i> , 2019 , 7, 100033	0.9	0
3	Dynamic and static feedback control for second order infinite-dimensional systems. <i>Asian Journal of Control</i> , 2020 , 23, 1431	1.7	0
2	Riesz Basis Generation: Green Function Approach. <i>Communications and Control Engineering</i> , 2019 , 439-5046		0

- 1 Disturbance Attenuation for Beam Equations Using Stiffness Control. *Asian Journal of Control*, **2008**, 3, 342-351 1.7