Cheng-zhong Xu

List of Publications by Year
in descending order

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34 papers	695 citations	623734 14 h-index	580821 25 g-index
34 all docs	34 docs citations	34 times ranked	257 citing authors

#	Article	IF	Citations
1	Exponential Stability and Transfer Functions of Processes Governed by Symmetric Hyperbolic Systems. ESAIM - Control, Optimisation and Calculus of Variations, 2002, 7, 421-442.	1.3	110
2	The Stabilization of a One-Dimensional Wave Equation by Boundary Feedback With Noncollocated Observation. IEEE Transactions on Automatic Control, 2007, 52, 371-377.	5.7	99
3	Stabilizability and stabilization of a rotating body-beam system with torque control. IEEE Transactions on Automatic Control, 1993, 38, 1754-1765.	5.7	77
4	Boundary feedback stabilization of a rotating body-beam system. IEEE Transactions on Automatic Control, 1996, 41, 241-245.	5.7	60
5	Output feedback stabilization of a one-dimensional wave equation with an arbitrary time delay in boundary observation. ESAIM - Control, Optimisation and Calculus of Variations, 2012, 18, 22-35.	1.3	47
6	A robust PI-controller for infinite-dimensional systems. International Journal of Control, 1995, 61, 33-45.	1.9	39
7	Design of Integral Controllers for Nonlinear Systems Governed by Scalar Hyperbolic Partial Differential Equations. IEEE Transactions on Automatic Control, 2017, 62, 4527-4536.	5.7	36
8	Multivariable boundary PI control and regulation of a fluid flow system. Mathematical Control and Related Fields, 2014, 4, 501-520.	1.1	33
9	Adding Integral Action for Open-Loop Exponentially Stable Semigroups and Application to Boundary Control of PDE Systems. IEEE Transactions on Automatic Control, 2020, 65, 4481-4492.	5.7	29
10	Infinite-dimensional Luenberger-like observers for a rotating body-beam system. Systems and Control Letters, 2011, 60, 138-145.	2.3	23
11	On the spectrum-determined growth condition of a vibration cable with a tip mass. IEEE Transactions on Automatic Control, 2000, 45, 89-93.	5.7	16
12	Exponential stability of distributed parameter systems governed by symmetric hyperbolic partial differential equations using Lyapunov's second method. ESAIM - Control, Optimisation and Calculus of Variations, 2009, 15, 403-425.	1.3	16
13	Boundary Output Feedback Stabilization of A One-Dimensional Wave Equation System With Time Delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8755-8760.	0.4	15
14	Output regulation for a cascaded network of 2Â<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml10" display="inline" overflow="scroll" altimg="si10.gif"><mml:mo>Ã—</mml:mo></mml:math>Â2 hyperbolic systems with PI controller. Automatica, 2018, 91, 270-278.	5.0	15
15	On the stabilization of a vibrating equation. Nonlinear Analysis: Theory, Methods & Applications, 2000, 39, 537-558.	1.1	13
16	Proportional and Integral Regulation of Irrigation canal Systems governed by the St Venant Equation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 2274-2279.	0.4	12
17	Spectral properties of infinite-dimensional closed-loop systems. Mathematics of Control, Signals, and Systems, 2005, 17, 153-172.	2.3	11
18	Reachability-based feedback control of crystal size distribution in batch crystallization processes. Journal of Process Control, 2012, 22, 1856-1864.	3.3	9

#	Article	IF	Citations
19	Linearization method to stability analysis for nonlinear hyperbolic systems. Comptes Rendus Mathematique, 2001, 332, 809-814.	0.5	5
20	Observers and Disturbance Rejection Control for a Heat Equation. IEEE Transactions on Automatic Control, 2020, 65, 4957-4964.	5.7	5
21	Boundary Control of a Class of Hyperbolic Systems. European Journal of Control, 2003, 9, 589-604.	2.6	4
22	Geometric synthesis of a hybrid limit cycle for the stabilizing control of a class of nonlinear switched dynamical systems. Systems and Control Letters, 2011, 60, 967-976.	2.3	4
23	Multivariable PI controller design for 2 Ã— 2 systems governed by hyperbolic partial differential equations with Lyapunov techniques. , 2016, , .		4
24	Identification of water depth and velocity potential for water waves. Systems and Control Letters, 2019, 125, 29-36.	2.3	4
25	Boundary PI controllers for a star-shaped network of 2 Ã— 2 systems governed by hyperbolic partial differential equations. IFAC-PapersOnLine, 2017, 50, 7070-7075.	0.9	3
26	Reachability analysis and control of crystal size distribution in batch crystallization processes. , 2010, , .		2
27	An Infinite-Dimensional Luenberger-Like Observer for Water Waves. , 2018, , .		2
28	Estimation of velocity potential of water waves using a Luenberger-like observer. Science China Information Sciences, 2020, 63, 1.	4.3	2
29	A Lyapunov-type condition for robust feedback stability of delay control systems. IMA Journal of Mathematical Control and Information, 2006, 23, 97-111.	1.7	0
30	A further numerical investigation on Luenberger type observers for vibrating systems. , 2009, , .		0
31	Efficient numerical simulation of batch crystallization processes governed by partial differential equations. , 2010, , .		0
32	Feedback control and estimation of crystal size distribution in a cooling batch crystallizer based on reachability analysis. , 2012, , .		0
33	New Sequence Spaces and Function Spaces on Interval[0,1]. Journal of Function Spaces and Applications, 2013, 2013, 1-10.	0.5	0
34	An infinite-dimensional Luenberger-like observer for vibrating membranes. , 2015, , .		0