

Achim Ilchmann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

1,416
citations

21
h-index

37
g-index

61
ext. papers

1,727
ext. citations

2
avg, IF

4.65
L-index

#	Paper	IF	Citations
58	Funnel control of nonlinear systems. <i>Mathematics of Control, Signals, and Systems</i> , 2021 , 33, 151-194	1.3	6
57	Optimal control of differential-algebraic equations from an ordinary differential equation perspective. <i>Optimal Control Applications and Methods</i> , 2019 , 40, 351-366	1.7	4
56	Model predictive control for linear differential-algebraic equations. <i>IFAC-PapersOnLine</i> , 2018 , 51, 98-103	0.7	4
55	Model predictive control for linear DAEs without terminal constraints and costs. <i>IFAC-PapersOnLine</i> , 2018 , 51, 116-121	0.7	3
54	The Byrnes-Isidori Form for Infinite-Dimensional Systems. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 1504-1534	1.9	5
53	Zero Dynamics and Stabilization for Analytic Linear Systems. <i>Acta Applicandae Mathematicae</i> , 2015 , 138, 17-57	1.1	14
52	Stabilizability of linear time-varying systems. <i>Systems and Control Letters</i> , 2013 , 62, 747-755	2.4	44
51	Funnel Control for Systems with Relative Degree Two. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 965-995	1.9	55
50	On stability of time-varying linear differential-algebraic equations. <i>International Journal of Control</i> , 2013 , 86, 1060-1076	1.5	12
49	On Minimum Phase. <i>Automatisierungstechnik</i> , 2013 , 61, 805-817	0.8	6
48	The quasi-Weierstraß form for regular matrix pencils. <i>Linear Algebra and Its Applications</i> , 2012 , 436, 4052-4069	0.69	97
47	Stability and robust stability of positive Volterra systems. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 604-629	3.6	5
46	Zero dynamics and funnel control of linear differential-algebraic systems. <i>Mathematics of Control, Signals, and Systems</i> , 2012 , 24, 219-263	1.3	23
45	Chapter 7: Normal Forms, High-Gain, and Funnel Control for Linear Differential-Algebraic Systems 2012 , 127-164		13
44	Indirect sampled-data control with sampling period adaptation. <i>International Journal of Control</i> , 2011 , 84, 424-431	1.5	2
43	Tracking with Prescribed Transient Performance for Hysteretic Systems. <i>SIAM Journal on Control and Optimization</i> , 2010 , 48, 4731-4752	1.9	13
42	Robustness of Funnel Control in the Gap Metric. <i>SIAM Journal on Control and Optimization</i> , 2010 , 48, 3169-3190	1.9	6

41	. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2177-2182	5.9	47
40	Funnel Control With Saturation: Linear MIMO Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 532-538	5.9	36
39	On positivity and stability of linear time-varying Volterra equations. <i>Positivity</i> , 2009 , 13, 671-681	0.6	8
38	PI-Funnel Control for Two Mass Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 918-923	5.9	66
37	Performance funnels and tracking control. <i>International Journal of Control</i> , 2009 , 82, 1828-1840	1.5	21
36	Robustness of Tracking and funnel control in the gap metric 2009 ,		1
35	Robustness of λ -Tracking in the Gap Metric. <i>SIAM Journal on Control and Optimization</i> , 2008 , 47, 2724-2744	1.9	4
34	High-gain control without identification: a survey. <i>GAMM Mitteilungen</i> , 2008 , 31, 115-125	1.8	79
33	Time-Varying Linear Systems: Relative Degree and Normal Form. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 840-851	5.9	44
32	Tracking with Prescribed Transient Behavior for Nonlinear Systems of Known Relative Degree. <i>SIAM Journal on Control and Optimization</i> , 2007 , 46, 210-230	1.9	87
31	Asymptotic tracking with prescribed transient behaviour for linear systems. <i>International Journal of Control</i> , 2006 , 79, 910-917	1.5	14
30	Tracking control with prescribed transient behaviour for systems of known relative degree. <i>Systems and Control Letters</i> , 2006 , 55, 396-406	2.4	59
29	A Behavioral Approach to Time-Varying Linear Systems. Part 1: General Theory. <i>SIAM Journal on Control and Optimization</i> , 2005 , 44, 1725-1747	1.9	23
28	A Behavioral Approach to Time-Varying Linear Systems. Part 2: Descriptor Systems. <i>SIAM Journal on Control and Optimization</i> , 2005 , 44, 1748-1765	1.9	19
27	ALGEBRAIC THEORY OF TIME-VARYING LINEAR SYSTEMS: A SURVEY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 1185-1191		1
26	Tracking control: Performance funnels and prescribed transient behaviour. <i>Systems and Control Letters</i> , 2005 , 54, 655-670	2.4	65
25	Adaptive sampled-data tracking for input-constrained exothermic chemical reaction models. <i>Systems and Control Letters</i> , 2005 , 54, 1149-1161	2.4	
24	Input constrained funnel control with applications to chemical reactor models. <i>Systems and Control Letters</i> , 2004 , 53, 361-375	2.4	42

23	Input Constrained Adaptive Tracking with Applications to Exothermic Chemical Reaction Models. <i>SIAM Journal on Control and Optimization</i> , 2004 , 43, 154-173	1.9	13
22	Tracking with prescribed transient behaviour. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2002 , 7, 471-493	1	152
21	Adaptive high-gain Tracking with variable sampling rate. <i>Systems and Control Letters</i> , 1999 , 36, 285-293	2.4	5
20	Piecewise constant high-gain adaptive Tracking for higher relative degree linear systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1999 , 32, 1820-1825		
19	Switching Functions 1999 ,		1
18	Adaptive Tracking for a class of infinite-dimensional systems. <i>Systems and Control Letters</i> , 1998 , 34, 11-21	2.4	8
17	Adaptive Tracking for polynomial minimum phase systems. <i>Dynamical Systems</i> , 1998 , 13, 341-371		7
16	Universal Adaptive Stabilization of Nonlinear Systems. <i>Journal of Dynamical and Control Systems</i> , 1997 , 7, 199-213		13
15	High-gain adaptive Tracking for nonlinear systems. <i>Automatica</i> , 1997 , 33, 881-888	5.7	58
14	Adaptive controllers and root loci of minimum-phase systems. <i>Journal of Dynamical and Control Systems</i> , 1994 , 4, 123-146		2
13	An Adaptive Servomechanism for a Class of Infinite-Dimensional Systems. <i>SIAM Journal on Control and Optimization</i> , 1994 , 32, 917-936	1.9	25
12	Simple adaptive stabilization of high-gain stabilizable systems. <i>Systems and Control Letters</i> , 1993 , 20, 189-198	2.4	12
11	High-gain adaptive stabilization of multivariable linear systems [revisited]. <i>Systems and Control Letters</i> , 1992 , 18, 355-364	2.4	22
10	Threshold Switching Functions in High-Gain Adaptive Control. <i>IMA Journal of Mathematical Control and Information</i> , 1991 , 8, 409-429	1.1	6
9	Non-Identifier-Based Adaptive Control of Dynamical Systems: A Survey. <i>IMA Journal of Mathematical Control and Information</i> , 1991 , 8, 321-366	1.1	61
8	Adaptive stabilization with exponential decay. <i>Systems and Control Letters</i> , 1990 , 14, 437-443	2.4	22
7	Exponential Stabilization using Nondifferential Gain Adaptation. <i>IMA Journal of Mathematical Control and Information</i> , 1990 , 7, 339-349	1.1	6
6	Time-Varying Linear Control Systems: A Geometric Approach. <i>IMA Journal of Mathematical Control and Information</i> , 1989 , 6, 411-440	1.1	11

5	Comments on [Canonical transformation for a class of time-varying multivariable systems] <i>International Journal of Control</i> , 1987 , 45, 365-365	1.5	
4	Stabilizability of systems with exponential dichotomy. <i>Systems and Control Letters</i> , 1987 , 8, 211-220	2.4	5
3	Time-varying linear systems and invariants of system equivalence. <i>International Journal of Control</i> , 1985 , 42, 759-790	1.5	14
2	Time-varying polynomial matrix systems. <i>International Journal of Control</i> , 1984 , 40, 329-362	1.5	43
1	Model predictive control for singular differential-algebraic equations. <i>International Journal of Control</i> , 1-10	1.5	2