

Dennis S Bernstein

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7371795/publications.pdf>

Version: 2024-02-01

256
papers

5,862
citations

117453

34
h-index

133063

59
g-index

257
all docs

257
docs citations

257
times ranked

2792
citing authors

#	ARTICLE	IF	CITATIONS
1	A chronological bibliography on saturating actuators. International Journal of Robust and Nonlinear Control, 1995, 5, 375-380.	2.1	506
2	Nonminimum-phase zeros - much to do about nothing - classical control - revisited part II. IEEE Control Systems, 2007, 27, 45-57.	1.0	196
3	Explicit construction of quadratic Lyapunov functions for the small gain, positivity, circle, and popov theorems and their application to robust stability. Part I: Continuous-time theory. International Journal of Robust and Nonlinear Control, 1993, 3, 313-339.	2.1	193
4	A benchmark problem for nonlinear control design. International Journal of Robust and Nonlinear Control, 1998, 8, 307-310.	2.1	137
5	Robust stabilization with positive real uncertainty: Beyond the small gain theorem. Systems and Control Letters, 1991, 17, 191-208.	1.3	123
6	Nonquadratic cost and nonlinear feedback control. International Journal of Robust and Nonlinear Control, 1993, 3, 211-229.	2.1	120
7	Global stabilization of the oscillating eccentric rotor. Nonlinear Dynamics, 1996, 10, 49-62.	2.7	111
8	Discrete-Time Adaptive Command Following and Disturbance Rejection With Unknown Exogenous Dynamics. IEEE Transactions on Automatic Control, 2008, 53, 912-928.	3.6	103
9	Robust stability and performance via fixed-order dynamic compensation with guaranteed cost bounds. Mathematics of Control, Signals, and Systems, 1990, 3, 139-163.	1.4	101
10	Explicit construction of quadratic Lyapunov functions for the small gain, positivity, circle, and popov theorems and their application to robust stability. part II: Discrete-time theory. International Journal of Robust and Nonlinear Control, 1994, 4, 249-265.	2.1	101
11	Adaptive Control Based on Retrospective Cost Optimization. Journal of Guidance, Control, and Dynamics, 2010, 33, 289-304.	1.6	100
12	Adaptive control of a quadrotor UAV transporting a cable-suspended load with unknown mass. , 2014, , .		99
13	Anti-windup compensator synthesis for systems with saturation actuators. International Journal of Robust and Nonlinear Control, 1995, 5, 521-537.	2.1	94
14	Robust Stability and Performance Analysis for State-Space Systems via Quadratic Lyapunov Bounds. SIAM Journal on Matrix Analysis and Applications, 1990, 11, 239-271.	0.7	89
15	Compartmental Modeling and Second-Moment Analysis of State Space Systems. SIAM Journal on Matrix Analysis and Applications, 1993, 14, 880-901.	0.7	86
16	State estimation for linear and non-linear equality-constrained systems. International Journal of Control, 2009, 82, 918-936.	1.2	85
17	The optimal projection equations for reduced-order, discrete-time modeling, estimation, and control. Journal of Guidance, Control, and Dynamics, 1986, 9, 288-293.	1.6	79
18	Gain-Constrained Kalman Filtering for Linear and Nonlinear Systems. IEEE Transactions on Signal Processing, 2008, 56, 4113-4123.	3.2	78

#	ARTICLE	IF	CITATIONS
19	Retrospective Cost Model Reference Adaptive Control for Nonminimum-Phase Systems. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 1767-1786.	1.6	74
20	Recursive Least Squares for Real-Time Implementation [Lecture Notes]. <i>IEEE Control Systems</i> , 2019, 39, 82-85.	1.0	70
21	Extensions of mixed- \mathcal{H}_∞ bounds to monotonic and odd monotonic nonlinearities using absolute stability theory. <i>International Journal of Control</i> , 1994, 60, 905-951.	1.2	65
22	Experimental implementation of integrator backstepping and passive nonlinear controllers on the RTAC testbed. <i>International Journal of Robust and Nonlinear Control</i> , 1998, 8, 435-457.	2.1	63
23	Duhem modeling of friction-induced hysteresis. <i>IEEE Control Systems</i> , 2008, 28, 90-107.	1.0	58
24	Retrospective Cost Adaptive Control: Pole Placement, Frequency Response, and Connections with LQG Control. <i>IEEE Control Systems</i> , 2017, 37, 28-69.	1.0	53
25	Optimal nonlinear, but continuous, feedback control of systems with saturating actuators. <i>International Journal of Control</i> , 1995, 62, 1209-1216.	1.2	50
26	Nonlinear feedback models of hysteresis. <i>IEEE Control Systems</i> , 2009, 29, 100-119.	1.0	48
27	Inertia-Free Spacecraft Attitude Control Using Reaction Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 1425-1439.	1.6	45
28	Stabilization of a 3D axially symmetric pendulum. <i>Automatica</i> , 2008, 44, 2258-2265.	3.0	44
29	Global stabilization of systems containing a double integrator using a saturated linear controller. <i>International Journal of Robust and Nonlinear Control</i> , 1999, 9, 1143-1156.	2.1	42
30	Piecewise Linear Identification for the Rate-Independent and Rate-Dependent Duhem Hysteresis Models. <i>IEEE Transactions on Automatic Control</i> , 2007, 52, 576-582.	3.6	42
31	Arc-length-based Lyapunov tests for convergence and stability with applications to systems having a continuum of equilibria. <i>Mathematics of Control, Signals, and Systems</i> , 2010, 22, 155-184.	1.4	42
32	Time-domain analysis of sensor-to-sensor transmissibility operators. <i>Automatica</i> , 2015, 53, 312-319.	3.0	39
33	Closed-loop identification of unstable systems using noncausal FIR models. <i>International Journal of Control</i> , 2017, 90, 168-185.	1.2	39
34	Induced Convolution Operator Norms of Linear Dynamical Systems. <i>Mathematics of Control, Signals, and Systems</i> , 2000, 13, 216-239.	1.4	38
35	Identification of FIR Wiener systems with unknown, non-invertible, polynomial non-linearities. <i>International Journal of Control</i> , 2003, 76, 1500-1507.	1.2	37
36	Limit cycle analysis of the verge and foliot clock escapement using impulsive differential equations and Poincaré maps. <i>International Journal of Control</i> , 2003, 76, 1685-1698.	1.2	36

#	ARTICLE	IF	CITATIONS
37	Generalized mixed- $\hat{1}/4$ bounds for real and complex multiple-block uncertainty with internal matrix structure. <i>International Journal of Control</i> , 1996, 64, 789-806.	1.2	32
38	Unscented filtering for interval-constrained nonlinear systems. , 2008, , .		31
39	Internal Model Control in the Shift and Delta Domains. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 1066-1072.	3.6	30
40	l-Delay Input and Initial-State Reconstruction for Discrete-Time Linear Systems. <i>Circuits, Systems, and Signal Processing</i> , 2011, 30, 233-262.	1.2	30
41	Logarithmic Lyapunov functions for direct adaptive stabilization with normalized adaptive laws. <i>International Journal of Control</i> , 2004, 77, 630-638.	1.2	29
42	Unbiased Minimum-variance Filtering for Input Reconstruction. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	29
43	Adaptive Virtual Autobalancing for a Rigid Rotor With Unknown Mass Imbalance Supported by Magnetic Bearings. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1998, 120, 557-570.	1.0	28
44	Frequency-domain stability analysis of retrospective-cost adaptive control for systems with unknown nonminimum-phase zeros. , 2011, , .		28
45	A popov criterion for uncertain linear multivariable systems. <i>Automatica</i> , 1995, 31, 1061-1064.	3.0	27
46	Wind-field reconstruction using flight data. , 2008, , .		27
47	Recursive Least Squares With Variable-Direction Forgetting: Compensating for the Loss of Persistency [Lecture Notes]. <i>IEEE Control Systems</i> , 2020, 40, 80-102.	1.0	27
48	A subspace algorithm for simultaneous identification and input reconstruction. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009, 23, 1053-1069.	2.3	26
49	Why are some hysteresis loops shaped like a butterfly?. <i>Automatica</i> , 2011, 47, 2658-2664.	3.0	26
50	On the Zeros, Initial Undershoot, and Relative Degree of Collinear Lumped-Parameter Structures. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007, 129, 493-502.	0.9	25
51	Retrospective- \hat{c} -cost-based adaptive model refinement for the ionosphere and thermosphere. <i>Statistical Analysis and Data Mining</i> , 2011, 4, 446-458.	1.4	24
52	Direct adaptive command following and disturbance rejection for minimum phase systems with unknown relative degree. <i>International Journal of Adaptive Control and Signal Processing</i> , 2007, 21, 49-75.	2.3	23
53	Deadbeat unknown-input state estimation and input reconstruction for linear discrete-time systems. <i>Automatica</i> , 2019, 103, 11-19.	3.0	23
54	Optimal reduced-order observer-estimators. <i>Journal of Guidance, Control, and Dynamics</i> , 1990, 13, 1126-1135.	1.6	22

#	ARTICLE	IF	CITATIONS
55	Direct Adaptive Dynamic Compensation for Minimum Phase Systems With Unknown Relative Degree. IEEE Transactions on Automatic Control, 2007, 52, 610-621.	3.6	22
56	Input Estimation for Nonminimum-Phase Systems With Application to Acceleration Estimation for a Maneuvering Vehicle. IEEE Transactions on Control Systems Technology, 2019, 27, 1596-1607.	3.2	21
57	Cumulative retrospective cost adaptive control with RLS-based optimization. , 2010, , .		20
58	Second-Order Systems with Singular Mass Matrix and an Extension of Guyan Reduction. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 649-657.	0.7	19
59	Lyapunov-based backward-horizon adaptive stabilization. International Journal of Adaptive Control and Signal Processing, 2003, 17, 67-84.	2.3	19
60	Retrospective cost adaptive control for nonminimum-phase discrete-time systems, part 1: The ideal controller and error system. , 2010, , .		19
61	Real structured singular value synthesis using the scaled Popov criterion. Journal of Guidance, Control, and Dynamics, 1995, 18, 1244-1252.	1.6	18
62	Kalman filtering with constrained output injection. International Journal of Control, 2007, 80, 1863-1879.	1.2	18
63	A comparison of least squares algorithms for estimating Markov parameters. , 2010, , .		17
64	Experimental Application of Time-Domain Transmissibility Identification to Fault Detection and Localization in Acoustic Systems. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.0	17
65	Minimum modelling retrospective cost adaptive control of uncertain Hammerstein systems using auxiliary nonlinearities. International Journal of Control, 2014, 87, 483-505.	1.2	16
66	Parameter consistency and quadratically constrained errors-in-variables least-squares identification. International Journal of Control, 2010, 83, 862-877.	1.2	15
67	Forward-integration Riccati-based output-feedback control of linear time-varying systems. , 2012, , .		15
68	Aircraft sensor fault detection using state and input estimation. , 2016, , .		15
69	Aircraft Sensor Health Monitoring Based on Transmissibility Operators. Journal of Guidance, Control, and Dynamics, 2015, 38, 1492-1495.	1.6	14
70	Retrospective Cost Adaptive Control of Generic Transport Model Under Uncertainty and Failure. Journal of Aerospace Information Systems, 2017, 14, 123-174.	1.0	14
71	Maximum-entropy-type Lyapunov functions for robust stability and performance analysis. Systems and Control Letters, 1993, 21, 73-87.	1.3	13
72	Probability-one homotopy algorithms for full- and reduced-order H_2/H_∞ controller synthesis. Optimal Control Applications and Methods, 1996, 17, 187-208.	1.3	13

#	ARTICLE	IF	CITATIONS
73	Feedback stabilization of snap-through buckling in a preloaded two-bar linkage with hysteresis. International Journal of Non-Linear Mechanics, 2008, 43, 277-291.	1.4	13
74	Global model comparison with Millstone Hill during September 2005. Journal of Geophysical Research, 2008, 113, .	3.3	13
75	A retrospective correction filter for discrete-time adaptive control of nonminimum-phase systems. , 2008, , .		13
76	Retrospective-cost-based model refinement for system emulation and subsystem identification. , 2011, , .		13
77	Adaptive control of Hammerstein systems with unknown Prandtl–Ishlinskii hysteresis. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 149-157.	0.7	13
78	Dissipative H_2/H^∞ controller synthesis. , 1993, , .		12
79	Fixed-structure robust controller synthesis via decentralized static output feedback. International Journal of Robust and Nonlinear Control, 1998, 8, 499-522.	2.1	12
80	On the equality between rank and trace of an idempotent matrix. Applied Mathematics and Computation, 2010, 217, 4076-4080.	1.4	12
81	Retrospective cost adaptive control of a planar multilink arm with nonminimum-phase zeros. , 2010, , .		12
82	Robustness of retrospective cost adaptive control to Markov-parameter uncertainty. , 2011, , .		12
83	Retrospective-Cost-Based Adaptive Input and State Estimation for the Ionosphere–Thermosphere. Journal of Aerospace Information Systems, 2015, 12, 767-783.	1.0	12
84	Time-domain analysis of motion transmissibilities in force-driven and displacement-driven structures. Journal of Sound and Vibration, 2015, 347, 169-183.	2.1	12
85	A tutorial and overview of retrospective cost adaptive control. , 2016, , .		12
86	Experimental application of transmissibility operators to fault detection. , 2016, , .		12
87	Output-only identification of input–output models. Automatica, 2020, 113, 108686.	3.0	12
88	Space Weather Forecasting. IEEE Control Systems, 2007, 27, 109-123.	1.0	11
89	Unscented filtering for equality-constrained nonlinear systems. , 2008, , .		11
90	Retrospective cost adaptive thrust control of a 1D scramjet with Mach number disturbance. , 2015, , .		11

#	ARTICLE	IF	CITATIONS
91	Adaptive control of nonminimum-phase systems using shifted Laurent series. International Journal of Control, 2017, 90, 407-427.	1.2	11
92	Recursive Least Squares with Matrix Forgetting. , 2020, , .		11
93	Fixed-order sampled-data estimation. International Journal of Control, 1992, 55, 129-139.	1.2	10
94	Adaptive forward-propagating input reconstruction for nonminimum-phase systems. , 2012, , .		10
95	Active Noise Control for Harmonic and Broadband Disturbances Using RLS-Based Model Predictive Control. , 2020, , .		10
96	Experimental Implementation of an Adaptive Digital Autopilot. , 2021, , .		10
97	Reduced-order multirate estimation. Journal of Guidance, Control, and Dynamics, 1994, 17, 712-721.	1.6	9
98	GLOBAL ASYMPTOTIC STABILIZATION OF THE SPINNING TOP. Optimal Control Applications and Methods, 1995, 16, 189-215.	1.3	9
99	An implicit small gain condition and an upper bound for the real structured singular value. Systems and Control Letters, 1997, 29, 197-205.	1.3	9
100	Least-correlation estimates for errors-in-variables models. International Journal of Adaptive Control and Signal Processing, 2006, 20, 337-351.	2.3	9
101	Dimensional Analysis of Matrices State-Space Models and Dimensionless Units [Lecture Notes]. IEEE Control Systems, 2007, 27, 100-109.	1.0	9
102	Adaptive digital PID control of first-order lag plus dead-time dynamics with sensor, actuator, and feedback nonlinearities. Advanced Control for Applications, 2019, 1, e20.	0.8	9
103	Output-Feedback RLS-Based Model Predictive Control. , 2020, , .		9
104	Example of indeterminacy in classical dynamics. International Journal of Theoretical Physics, 1997, 36, 545-550.	0.5	8
105	Identification of Wiener Systems With Known Noninvertible Nonlinearities I. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 566-571.	0.9	8
106	Cumulative retrospective cost adaptive control of systems with amplitude and rate saturation. , 2011, , .		8
107	Inversion-free adaptive control of uncertain systems with shape-memory-alloy actuation. , 2013, , .		8
108	On the role of subspace zeros in retrospective cost adaptive control of non-square plants. International Journal of Control, 2015, 88, 295-323.	1.2	8

#	ARTICLE	IF	CITATIONS
109	Battery State of Health Monitoring by Estimation of Side Reaction Current Density Via Retrospective-Cost Subsystem Identification. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	0.9	8
110	Maximum entropy controller synthesis for colocated and noncolocated systems. <i>Journal of Guidance, Control, and Dynamics</i> , 1994, 17, 859-862.	1.6	7
111	A double-commutator guaranteed cost bound for robust stability and performance. <i>Systems and Control Letters</i> , 1995, 25, 125-129.	1.3	7
112	l-delay input reconstruction for discrete-time linear systems. , 2009, , .		7
113	An experimental evaluation of the forward propagating Riccati equation to nonlinear control of the Quanser 3 DOF Hover testbed. , 2016, , .		7
114	On the stability and convergence of a sliding-window variable-regularization recursive-least-squares algorithm. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016, 30, 715-735.	2.3	7
115	A Maximum Entropy-Type Lyapunov Function for Robust Stability and Performance Analysis. , 1992, , .		7
116	Average-preserving symmetries and energy equipartition in linear Hamiltonian systems. <i>Mathematics of Control, Signals, and Systems</i> , 2009, 21, 127-146.	1.4	6
117	Sensor-only fault detection using pseudo transfer function identification. , 2010, , .		6
118	Semiparametric identification of Wiener systems using a single harmonic input and retrospective cost optimization. , 2010, , .		6
119	Adaptive State Estimation for Nonminimum-Phase Systems with Uncertain Harmonic Inputs. , 2011, , .		6
120	Retrospective cost model reference adaptive control for nonminimum-phase discrete-time systems, Part 2: Stability analysis. , 2011, , .		6
121	A matrix nullspace approach for solving equality-constrained multivariable polynomial least-squares problems. <i>Automatica</i> , 2014, 50, 3030-3037.	3.0	6
122	Maneuvering target tracking with unknown acceleration using retrospective-cost-based adaptive input and state estimation. , 2015, , .		6
123	A behavioral equation framework for time-domain transmissibilities. <i>Automatica</i> , 2017, 78, 20-24.	3.0	6
124	Dynamic output-feedback control of a chain of discrete-time integrators with arbitrary zeros and asymmetric input saturation. <i>Automatica</i> , 2021, 125, 109387.	3.0	6
125	H2optimal control with an a-shifted pole constraint. <i>International Journal of Control</i> , 1993, 58, 1201-1214.	1.2	5
126	Reduced-rank unscented Kalman filtering using Cholesky-based decomposition. <i>International Journal of Control</i> , 2008, 81, 1779-1792.	1.2	5

#	ARTICLE	IF	CITATIONS
127	Adaptive control using retrospective cost optimization with RLS-based estimation for concurrent Markov-parameter updating. , 2009, , .		5
128	Identification of sensor-only MIMO pseudo transfer functions. , 2011, , .		5
129	A sudden-release bristle model that exhibits hysteresis and stick-slip friction. , 2011, , .		5
130	Adaptive control of uncertain Hammerstein systems with monotonic input nonlinearities using auxiliary nonlinearities. , 2012, , .		5
131	Retrospective Cost Optimization for Adaptive State Estimation, Input Estimation, and Model Refinement. <i>Procedia Computer Science</i> , 2013, 18, 1919-1928.	1.2	5
132	Output-feedback control of linear time-varying and nonlinear systems using the forward propagating Riccati equation. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 1239-1263.	1.5	5
133	A Targeted Forgetting Factor for Recursive Least Squares. , 2018, , .		5
134	System Identification Using Composite FIR/IIR Models. , 2018, , .		5
135	Minimal-delay FIR delayed left inverses for systems with zero nonzero zeros. <i>Systems and Control Letters</i> , 2019, 133, 104552.	1.3	5
136	A numerical investigation of direct and indirect closed-loop architectures for estimating nonminimum-phase zeros. <i>International Journal of Control</i> , 2020, 93, 1251-1265.	1.2	5
137	An Introduction to Inertial Navigation From the Perspective of State Estimation [Focus on Education]. <i>IEEE Control Systems</i> , 2021, 41, 104-128.	1.0	5
138	A subspace algorithm for simultaneous identification and input reconstruction. , 2007, , .		4
139	Matrix pencils and existence conditions for quadratic programming with a sign-indefinite quadratic equality constraint. <i>Journal of Global Optimization</i> , 2009, 45, 533-549.	1.1	4
140	A numerical study on controlling a nonlinear multilink arm using a retrospective cost model reference adaptive controller. , 2011, , .		4
141	Retrospective cost model reference adaptive control for nonminimum-phase discrete-time systems, Part 1: The adaptive controller. , 2011, , .		4
142	FIR-based phase matching for robust Retrospective-Cost Adaptive Control. , 2012, , .		4
143	Adaptive input estimation for nonminimum-phase discrete-time systems. , 2016, , .		4
144	Adaptive Control of Discrete-Time Systems with Unknown, Unstable Zero Dynamics. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
145	Phasor-Based Adaptive Control of a Test-Feeder Distribution Network: Application of Retrospective Cost Adaptive Control to the IEEE 13-Node Test Feeder. IEEE Control Systems, 2019, 39, 56-74.	1.0	4
146	L2 controller synthesis with L [∞] -bounded closed-loop impulse response. International Journal of Control, 1994, 60, 1295-1306.	1.2	3
147	Reliable state-space upper bounds for the peak structured singular value. International Journal of Robust and Nonlinear Control, 1998, 8, 611-630.	2.1	3
148	Robust fixed-structure controller synthesis using the implicit small-gain bound. Journal of the Franklin Institute, 2000, 337, 85-96.	1.9	3
149	CFD-Based Adaptive Flow Control for Steady Flow Field Modification. , 2006, , .		3
150	A Delay-Duhem model for jump-resonance hysteresis. , 2007, , .		3
151	Position Control Using Acceleration-Based Identification and Feedback With Unknown Measurement Bias. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	0.9	3
152	Why are some hysteresis loops shaped like a butterfly?. , 2009, , .		3
153	Identification of the inertia matrix of a rotating body based on errors-in-variables models. International Journal of Adaptive Control and Signal Processing, 2010, 24, 203-210.	2.3	3
154	On the accuracy of least squares algorithms for estimating zeros. , 2010, , .		3
155	Geometric Insight and Structure Algorithms for Unknown-State, Unknown-Input Reconstruction in Linear Multivariable Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11320-11325.	0.4	3
156	SVD-based computation of zeros of polynomial matrices. , 2011, , .		3
157	Robust sampled-data adaptive control of the Rohrs counterexamples. , 2012, , .		3
158	Forward-integration Riccati-based feedback control for spacecraft rendezvous maneuvers on elliptic orbits. , 2012, , .		3
159	Identification of Hammerstein systems using input amplitude multiplexing. , 2013, , .		3
160	Adaptive spacecraft attitude control with reaction wheel actuation. , 2013, , .		3
161	Closed-loop identification of unstable systems using noncausal FIR models. , 2013, , .		3
162	Adaptive control with convex saturation constraints. IET Control Theory and Applications, 2014, 8, 1096-1104.	1.2	3

#	ARTICLE	IF	CITATIONS
163	Exploration and mapping of an unknown flight envelope. , 2014, , .		3
164	An inner-loop/outer-loop architecture for an adaptive missile autopilot. , 2015, , .		3
165	Experimental investigation of spatial spillover in adaptive feedback noise control of broadband disturbances in a 3D acoustic space. , 2016, , .		3
166	Data-Driven Parameter Estimation for Models with Nonlinear Parameter Dependence. , 2018, , .		3
167	Design and Characterization of the Dual Independent Swirl Combustor Facility (DISCo). , 2021, , .		3
168	Probability-one homotopy algorithms for full- and reduced-order H_2/H_∞ controller synthesis. , 1996, 17, 187.		3
169	What Is the Adjoint of a Linear System? [Lecture Notes]. IEEE Control Systems, 2020, 40, 62-70.	1.0	3
170	An Adaptive PID Autotuner for Multicopters with Experimental Results. , 2022, , .		3
171	Stable H_2 -optimal controller synthesis. Optimal Control Applications and Methods, 2000, 21, 107-124.	1.3	2
172	Hysteresis Analysis and Feedback Stabilization of Snap-through Buckling. Proceedings of the American Control Conference, 2007, , .	0.0	2
173	Adaptive Disturbance Rejection for Flow in a Duct with Time-Varying Upstream Velocity. Proceedings of the American Control Conference, 2007, , .	0.0	2
174	Data assimilation for magnetohydrodynamics with a zero-divergence constraint on the magnetic field. , 2008, , .		2
175	Consistent identification of Hammerstein systems using an ersatz nonlinearity. , 2011, , .		2
176	Retrospective cost adaptive control for nonminimum-phase systems with uncertain nonminimum-phase zeros using convex optimization. , 2011, , .		2
177	Sensor-to-sensor identification of Hammerstein systems. , 2012, , .		2
178	Aliasing effects in direct digital adaptive control of plants with High-Frequency Dynamics and Disturbances. , 2013, , .		2
179	Faux-Riccati synthesis of nonlinear observer-based compensators for discrete-time nonlinear systems. , 2014, , .		2
180	Retrospective cost adaptive control using concurrent controller optimization and target-model identification. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
181	Retrospective cost adaptive control with concurrent closed-loop identification of time-varying nonminimum-phase zeros. , 2016, , .		2
182	Kalman-filter-based time-varying parameter estimation via retrospective optimization of the process noise covariance. , 2016, , .		2
183	Adaptive control of plants that are practically impossible to control by fixed-gain control laws. , 2016, , .		2
184	Adaptive control of hammerstein systems with unknown input nonlinearity and partially modeled linear dynamics. International Journal of Control, Automation and Systems, 2016, 14, 957-966.	1.6	2
185	Adaptive control of mass-spring systems with unknown hysteretic contact friction. , 2016, , .		2
186	On spatial spillover in feedforward and feedback noise control. Journal of Sound and Vibration, 2017, 391, 1-19.	2.1	2
187	Pareto-front analysis of a monotonic PI control law for slip suppression in a robotic manipulator. , 2017, , .		2
188	Reconstruction of Aircraft Lateral Dynamics Using Two Transmissibility Operators. , 2018, , .		2
189	Parameter Estimation for Nonlinearly Parameterized Gray-Box Models. , 2018, , .		2
190	Adaptive Attitude Control of a Dual-Rigid-Body Spacecraft with Unmodeled Nonminimum-Phase Dynamics. , 2018, , .		2
191	Estimation of the Eddy Diffusion Coefficient Using Total Electron Content Data. , 2018, , .		2
192	Retrospective Cost Adaptive Control Using Composite FIR/IIR Controllers. , 2018, , .		2
193	Satellite Drag Estimation Using Retrospective Cost Input Estimation. , 2019, , .		2
194	A Time-Delayed Lurê™e Model with Biased Self-Excited Oscillations. , 2020, , .		2
195	Counting Zeros Using Observability and Block Toeplitz Matrices. IEEE Transactions on Automatic Control, 2021, 66, 1301-1305.	3.6	2
196	Is there More to Robust Control Theory than Small Gain?. , 1992, , .		2
197	Off-axis absolute stability criteria and $\hat{1}/4$ -bounds involving non-positive-real plant-dependent multipliers for robust stability and performance with locally slope-restricted monotonic nonlinearities. , 1993, , .		2
198	Deadbeat Input Reconstruction and State Estimation for Discrete-Time Linear Time-Varying Systems. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
199	Adaptive Feedback Noise Control for Wide, Square, and Tall Systems. , 2019, , .		2
200	Adaptive Quasi-Static Control of Multistable Systems. , 2020, , .		2
201	Adaptive Energy Control of Longitudinal Aircraft Dynamics. , 2022, , .		2
202	Experimental Investigation of Adaptive Feedback Control on a Dual-Swirl-Stabilized Gas Turbine Model Combustor. , 2022, , .		2
203	The Parabola Test for Robust Stability and Performance: A Unified Extension of the Circle and Popov Criteria. , 1992, , .		1
204	Nonlinear Controllers for Positive Real Systems with Arbitrary Input Nonlinearities. , 1993, , .		1
205	Guaranteed cost inequalities for robust stability and performance analysis. International Journal of Robust and Nonlinear Control, 2002, 12, 1275-1297.	2.1	1
206	Duhem Feedback and Friction-Induced Staircase Hysteresis. Proceedings of the American Control Conference, 2007, , .	0.0	1
207	IDENTIFICATION OF THE INERTIA MATRIX OF A ROTATING BODY BASED ON ERRORS-IN-VARIABLES MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 182-187.	0.4	1
208	Correlation bounds for discrete-time systems with banded dynamics. Systems and Control Letters, 2007, 56, 83-86.	1.3	1
209	Call For Papers: International Journal of Robust and Nonlinear Control, Special Issue On Benchmark Problem for Nonlinear Control. International Journal of Robust and Nonlinear Control, 2008, 6, 83-83.	2.1	1
210	Markov-parameter-based adaptive control of 3-axis angular velocity in a six-degree-of-freedom stewart platform. , 2008, , .		1
211	A nonlinear observer for semidetactable chemical reactions with application to kinetic-rate-constant estimation. , 2009, , .		1
212	Retrospective cost adaptive control for nonminimum-phase discrete-time systems, part 2: The adaptive controller and stability analysis. , 2010, , .		1
213	Adaptive static-output-feedback stabilization using retrospective cost optimization. , 2010, , .		1
214	Semiparametric identification of Hammerstein systems using input reconstruction and a single harmonic input. , 2010, , .		1
215	Input richness and zero buffering in time-domain identification. , 2010, , .		1
216	Sliding window recursive quadratic optimization with variable regularization. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
217	Poincaré recurrence and output reversibility in linear dynamical systems. , 2012, , .		1
218	From polynomial matrices to markov parameters and back: Theory and numerical algorithms. Linear Algebra and Its Applications, 2012, 437, 783-808.	0.4	1
219	A subsystem identification technique towards battery state of health monitoring under state of charge estimation errors. , 2015, , .		1
220	Adaptive decentralized control with nonminimum-phase closed-loop channel zeros. , 2016, , .		1
221	Combined state and parameter estimation and identifiability of state space realizations. , 2016, , .		1
222	Is It Possible to Follow Position Commands Using Velocity Measurements? [Lecture Notes]. IEEE Control Systems, 2016, 36, 93-98.	1.0	1
223	Adaptive non-Bayesian state estimation. , 2016, , .		1
224	Adaptive Squaring-Based Control Allocation for Wide Systems with Application to Lateral Flight Control. , 2018, , .		1
225	Time-Domain Errors-in-Variables Identification of Transmissibilities. , 2018, , .		1
226	Counting colorful necklaces and bracelets in three colors. Aequationes Mathematicae, 2019, 93, 1183-1202.	0.4	1
227	What Is the Koopman Operator? A Simplified Treatment for Discrete-Time Systems. , 2019, , .		1
228	Adaptive Control of Systems with Unknown Nonminimum-Phase Zeros Using Cancellation-Based Pseudo-identification. , 2019, , .		1
229	On Feasible Body, Aerodynamic, and Navigation Euler Angles for Aircraft Flight. Journal of Guidance, Control, and Dynamics, 2019, 42, 1130-1135.	1.6	1
230	On the zero dynamics of linear input-output models. International Journal of Control, 2022, 95, 924-933.	1.2	1
231	A Guardian Map Approach to Robust Stability of Linear Systems with Constant Real Parameter Uncertainty. , 1992, , .		0
232	What Are the Physical Dimensions of the A Matrix?. Proceedings of the American Control Conference, 2007, , .	0.0	0
233	3D Pendulum Experimental Setup for Earth-based Testing of the Attitude Dynamics of an Orbiting Spacecraft. Proceedings of the American Control Conference, 2007, , .	0.0	0
234	Ensemble-on-demand Kalman filter for large-scale systems with time-sparse measurements. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
235	Magnetic-field estimation using measurements from a floating buoy. , 2008, , .		0
236	Reduced-order state estimation for linear time-varying systems. Asian Journal of Control, 2009, 11, 595-609.	1.9	0
237	Hybrid retrospective-cost-based adaptive control using concurrent parameter estimation. , 2010, , .		0
238	Comments on "output feedback adaptive command following and disturbance rejection for nonminimum phase uncertain dynamical systems". International Journal of Adaptive Control and Signal Processing, 2011, 25, 374-378.	2.3	0
239	Adaptive control of uncertain Hammerstein systems with non-monotonic input nonlinearities using auxiliary nonlinearities. , 2013, , .		0
240	Gravity-gradient-stabilized spacecraft attitude estimation using rate-gyroscope measurements. , 2016, , .		0
241	Continuous-time retrospective cost adaptive control for nonminimum-phase systems. , 2016, , .		0
242	Adaptive error correction for discrete-time systems with amplitude and rate saturation. , 2016, , .		0
243	Output-Feedback Adaptive Control of Discrete-Time Systems with Unmodeled, Unmatched, Inaccessible Nonlinearities. , 2018, , .		0
244	Experimental Identification of the Spatial Spillover Operator for Systems with Insuppressible Disturbances. , 2018, , .		0
245	How Slippery Is Viscous Friction? [Lecture Notes]. IEEE Control Systems, 2019, 39, 73-82.	1.0	0
246	Finite-Delay Input Reconstruction for Left-Invertible Discrete-Time Systems with Zero Nonzero Zeros. , 2019, , .		0
247	An Emergent Nonlinear Thermodynamic Energy-Flow Model for Collections of Coupled Oscillators. , 2019, , .		0
248	Adaptive State Estimation with Subspace-Constrained State Correction. , 2020, , .		0
249	Optimal Sample-Error/Ripple Tradeoff for Sampled-Data Systems with Harmonic Disturbances. , 2020, , .		0
250	On the McMillan degree of full-normal-rank transfer functions. International Journal of Control, 2021, 94, 3439-3447.	1.2	0
251	The Dynamics of a Bead Sliding on a Freely Rotating Horizontal Wire: An Analytical Solution. Differential Equations and Dynamical Systems, 0, , 1.	0.5	0
252	Parameter-Dependent Lyapunov Functions and the Discrete-Time Popov Criterion for Robust Analysis and Synthesis. , 1992, , .		0

#	ARTICLE	IF	CITATIONS
253	Robust Stability and Performance Via Fixed-Order Dynamic Compensation: The Discrete-Time Case. , 1992, , .		0
254	L2 controller synthesis with L^{∞} -bounded closed-loop impulse response. , 1993, , .		0
255	Retrospective cost adaptive harmonic disturbance rejection using dereverberated target models. Journal of Sound and Vibration, 2022, 523, 116692.	2.1	0
256	Transmission Matrices for Physical-System Modeling [Lecture Notes]. IEEE Control Systems, 2019, 39, 88-109.	1.0	0