

Dennis S Bernstein

List of Publications by Year in descending order

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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	On the zero dynamics of linear input-output models. International Journal of Control, 2022, 95, 924-933.	1.2	1
2	Retrospective cost adaptive harmonic disturbance rejection using dereverberated target models. Journal of Sound and Vibration, 2022, 523, 116692.	2.1	0
3	Adaptive Energy Control of Longitudinal Aircraft Dynamics. , 2022, , .		2
4	Experimental Investigation of Adaptive Feedback Control on a Dual-Swirl-Stabilized Gas Turbine Model Combustor. , 2022, , .		2
5	An Adaptive PID Autotuner for Multicopters with Experimental Results. , 2022, , .		3
6	On the McMillan degree of full-normal-rank transfer functions. International Journal of Control, 2021, 94, 3439-3447.	1.2	0
7	Counting Zeros Using Observability and Block Toeplitz Matrices. IEEE Transactions on Automatic Control, 2021, 66, 1301-1305.	3.6	2
8	Dynamic output-feedback control of a chain of discrete-time integrators with arbitrary zeros and asymmetric input saturation. Automatica, 2021, 125, 109387.	3.0	6
9	Experimental Implementation of an Adaptive Digital Autopilot. , 2021, , .		10
10	Design and Characterization of the Dual Independent Swirl Combustor Facility (DISCo). , 2021, , .		3
11	An Introduction to Inertial Navigation From the Perspective of State Estimation [Focus on Education]. IEEE Control Systems, 2021, 41, 104-128.	1.0	5
12	A numerical investigation of direct and indirect closed-loop architectures for estimating nonminimum-phase zeros. International Journal of Control, 2020, 93, 1251-1265.	1.2	5
13	Output-only identification of input-output models. Automatica, 2020, 113, 108686.	3.0	12
14	Active Noise Control for Harmonic and Broadband Disturbances Using RLS-Based Model Predictive Control. , 2020, , .		10
15	Recursive Least Squares with Matrix Forgetting. , 2020, , .		11
16	Adaptive State Estimation with Subspace-Constrained State Correction. , 2020, , .		0
17	Optimal Sample-Error/Ripple Tradeoff for Sampled-Data Systems with Harmonic Disturbances. , 2020, , .		0
18	A Time-Delayed Lur'e Model with Biased Self-Excited Oscillations. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
19	Adaptive Control of Discrete-Time Systems with Unknown, Unstable Zero Dynamics. , 2020, , .		4
20	Output-Feedback RLS-Based Model Predictive Control. , 2020, , .		9
21	Adaptive Quasi-Static Control of Multistable Systems. , 2020, , .		2
22	What Is the Adjoint of a Linear System? [Lecture Notes]. IEEE Control Systems, 2020, 40, 62-70.	1.0	3
23	Recursive Least Squares With Variable-Direction Forgetting: Compensating for the Loss of Persistency [Lecture Notes]. IEEE Control Systems, 2020, 40, 80-102.	1.0	27
24	Recursive Least Squares for Real-Time Implementation [Lecture Notes]. IEEE Control Systems, 2019, 39, 82-85.	1.0	70
25	Minimal-delay FIR delayed left inverses for systems with zero nonzero zeros. Systems and Control Letters, 2019, 133, 104552.	1.3	5
26	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
27	How Slippery Is Viscous Friction? [Lecture Notes]. IEEE Control Systems, 2019, 39, 73-82.	1.0	0
28	Counting colorful necklaces and bracelets in three colors. Aequationes Mathematicae, 2019, 93, 1183-1202.	0.4	1
29	Deadbeat unknown-input state estimation and input reconstruction for linear discrete-time systems. Automatica, 2019, 103, 11-19.	3.0	23
30	Satellite Drag Estimation Using Retrospective Cost Input Estimation. , 2019, , .		2
31	Finite-Delay Input Reconstruction for Left-Invertible Discrete-Time Systems with Zero Nonzero Zeros. , 2019, , .		0
32	An Emergent Nonlinear Thermodynamic Energy-Flow Model for Collections of Coupled Oscillators. , 2019, , .		0
33	What Is the Koopman Operator? A Simplified Treatment for Discrete-Time Systems. , 2019, , .		1
34	Adaptive Control of Systems with Unknown Nonminimum-Phase Zeros Using Cancellation-Based Pseudo-identification. , 2019, , .		1
35	On Feasible Body, Aerodynamic, and Navigation Euler Angles for Aircraft Flight. Journal of Guidance, Control, and Dynamics, 2019, 42, 1130-1135.	1.6	1
36	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

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37	Deadbeat Input Reconstruction and State Estimation for Discrete-Time Linear Time-Varying Systems. , 2019, , .		2
38	Adaptive Feedback Noise Control for Wide, Square, and Tall Systems. , 2019, , .		2
39	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
40	Transmission Matrices for Physical-System Modeling [Lecture Notes]. IEEE Control Systems, 2019, 39, 88-109.	1.0	0
41	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
42	Output-feedback control of linear time-varying and nonlinear systems using the forward propagating Riccati equation. JVC/Journal of Vibration and Control, 2018, 24, 1239-1263.	1.5	5
43	Adaptive Squaring-Based Control Allocation for Wide Systems with Application to Lateral Flight Control. , 2018, , .		1
44	A Targeted Forgetting Factor for Recursive Least Squares. , 2018, , .		5
45	Data-Driven Parameter Estimation for Models with Nonlinear Parameter Dependence. , 2018, , .		3
46	Reconstruction of Aircraft Lateral Dynamics Using Two Transmissibility Operators. , 2018, , .		2
47	Parameter Estimation for Nonlinearly Parameterized Gray-Box Models. , 2018, , .		2
48	Output-Feedback Adaptive Control of Discrete-Time Systems with Unmodeled, Unmatched, Inaccessible Nonlinearities. , 2018, , .		0
49	Time-Domain Errors-in-Variables Identification of Transmissibilities. , 2018, , .		1
50	System Identification Using Composite FIR/IIR Models. , 2018, , .		5
51	Experimental Identification of the Spatial Spillover Operator for Systems with Insuppressible Disturbances. , 2018, , .		0
52	Adaptive Attitude Control of a Dual-Rigid-Body Spacecraft with Unmodeled Nonminimum-Phase Dynamics. , 2018, , .		2
53	Estimation of the Eddy Diffusion Coefficient Using Total Electron Content Data. , 2018, , .		2
54	Retrospective Cost Adaptive Control Using Composite FIR/IIR Controllers. , 2018, , .		2

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55	Adaptive control of nonminimum-phase systems using shifted Laurent series. International Journal of Control, 2017, 90, 407-427.	1.2	11
56	Closed-loop identification of unstable systems using noncausal FIR models. International Journal of Control, 2017, 90, 168-185.	1.2	39
57	A behavioral equation framework for time-domain transmissibilities. Automatica, 2017, 78, 20-24.	3.0	6
58	Battery State of Health Monitoring by Estimation of Side Reaction Current Density Via Retrospective-Cost Subsystem Identification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	8
59	Retrospective Cost Adaptive Control of Generic Transport Model Under Uncertainty and Failure. Journal of Aerospace Information Systems, 2017, 14, 123-174.	1.0	14
60	On spatial spillover in feedforward and feedback noise control. Journal of Sound and Vibration, 2017, 391, 1-19.	2.1	2
61	Pareto-front analysis of a monotonic PI control law for slip suppression in a robotic manipulator. , 2017, , .		2
62	Retrospective Cost Adaptive Control: Pole Placement, Frequency Response, and Connections with LQG Control. IEEE Control Systems, 2017, 37, 28-69.	1.0	53
63	Experimental investigation of spatial spillover in adaptive feedback noise control of broadband disturbances in a 3D acoustic space. , 2016, , .		3
64	Retrospective cost adaptive control using concurrent controller optimization and target-model identification. , 2016, , .		2
65	Retrospective cost adaptive control with concurrent closed-loop identification of time-varying nonminimum-phase zeros. , 2016, , .		2
66	Kalman-filter-based time-varying parameter estimation via retrospective optimization of the process noise covariance. , 2016, , .		2
67	Gravity-gradient-stabilized spacecraft attitude estimation using rate-gyroscope measurements. , 2016, , .		0
68	Adaptive control of plants that are practically impossible to control by fixed-gain control laws. , 2016, , .		2
69	Adaptive input estimation for nonminimum-phase discrete-time systems. , 2016, , .		4
70	Adaptive decentralized control with nonminimum-phase closed-loop channel zeros. , 2016, , .		1
71	Combined state and parameter estimation and identifiability of state space realizations. , 2016, , .		1
72	A tutorial and overview of retrospective cost adaptive control. , 2016, , .		12

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73	Continuous-time retrospective cost adaptive control for nonminimum-phase systems. , 2016, , .		0
74	Adaptive error correction for discrete-time systems with amplitude and rate saturation. , 2016, , .		0
75	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
76	Aircraft sensor fault detection using state and input estimation. , 2016, , .		15
77	Is It Possible to Follow Position Commands Using Velocity Measurements? [Lecture Notes]. IEEE Control Systems, 2016, 36, 93-98.	1.0	1
78	Experimental application of transmissibility operators to fault detection. , 2016, , .		12
79	Adaptive non-Bayesian state estimation. , 2016, , .		1
80	Adaptive control of mass-spring systems with unknown hysteretic contact friction. , 2016, , .		2
81	An experimental evaluation of the forward propagating Riccati equation to nonlinear control of the Quanser 3 DOF Hover testbed. , 2016, , .		7
82	On the stability and convergence of a slidingâ€window variableâ€regularization recursiveâ€leastâ€squares algorithm. International Journal of Adaptive Control and Signal Processing, 2016, 30, 715-735.	2.3	7
83	Retrospective cost adaptive thrust control of a 1D scramjet with Mach number disturbance. , 2015, , .		11
84	Retrospective-Cost-Based Adaptive Input and State Estimation for the Ionosphereâ€Thermosphere. Journal of Aerospace Information Systems, 2015, 12, 767-783.	1.0	12
85	A subsystem identification technique towards battery state of health monitoring under state of charge estimation errors. , 2015, , .		1
86	Maneuvering target tracking with unknown acceleration using retrospective-cost-based adaptive input and state estimation. , 2015, , .		6
87	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
88	Aircraft Sensor Health Monitoring Based on Transmissibility Operators. Journal of Guidance, Control, and Dynamics, 2015, 38, 1492-1495.	1.6	14
89	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
90	Time-domain analysis of sensor-to-sensor transmissibility operators. Automatica, 2015, 53, 312-319.	3.0	39

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91	An inner-loop/outer-loop architecture for an adaptive missile autopilot. , 2015, , .		3
92	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
93	A matrix nullspace approach for solving equality-constrained multivariable polynomial least-squares problems. Automatica, 2014, 50, 3030-3037.	3.0	6
94	Adaptive control with convex saturation constraints. IET Control Theory and Applications, 2014, 8, 1096-1104.	1.2	3
95	Faux-Riccati synthesis of nonlinear observer-based compensators for discrete-time nonlinear systems. , 2014, , .		2
96	Minimum modelling retrospective cost adaptive control of uncertain Hammerstein systems using auxiliary nonlinearities. International Journal of Control, 2014, 87, 483-505.	1.2	16
97	Adaptive control of a quadrotor UAV transporting a cable-suspended load with unknown mass. , 2014, , .		99
98	Exploration and mapping of an unknown flight envelope. , 2014, , .		3
99	Inertia-Free Spacecraft Attitude Control Using Reaction Wheels. Journal of Guidance, Control, and Dynamics, 2013, 36, 1425-1439.	1.6	45
100	Retrospective Cost Optimization for Adaptive State Estimation, Input Estimation, and Model Refinement. Procedia Computer Science, 2013, 18, 1919-1928.	1.2	5
101	Identification of Hammerstein systems using input amplitude multiplexing. , 2013, , .		3
102	Adaptive spacecraft attitude control with reaction wheel actuation. , 2013, , .		3
103	Adaptive control of uncertain Hammerstein systems with non-monotonic input nonlinearities using auxiliary nonlinearities. , 2013, , .		0
104	Inversion-free adaptive control of uncertain systems with shape-memory-alloy actuation. , 2013, , .		8
105	Closed-loop identification of unstable systems using noncausal FIR models. , 2013, , .		3
106	Aliasing effects in direct digital adaptive control of plants with High-Frequency Dynamics and Disturbances. , 2013, , .		2
107	Forward-integration Riccati-based output-feedback control of linear time-varying systems. , 2012, , .		15
108	Adaptive forward-propagating input reconstruction for nonminimum-phase systems. , 2012, , .		10

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109	Adaptive control of uncertain Hammerstein systems with monotonic input nonlinearities using auxiliary nonlinearities. , 2012, , .		5
110	FIR-based phase matching for robust Retrospective-Cost Adaptive Control. , 2012, , .		4
111	Poincaré recurrence and output reversibility in linear dynamical systems. , 2012, , .		1
112	Robust sampled-data adaptive control of the Rohrs counterexamples. , 2012, , .		3
113	Retrospective Cost Model Reference Adaptive Control for Nonminimum-Phase Systems. Journal of Guidance, Control, and Dynamics, 2012, 35, 1767-1786.	1.6	74
114	Sensor-to-sensor identification of Hammerstein systems. , 2012, , .		2
115	Forward-integration Riccati-based feedback control for spacecraft rendezvous maneuvers on elliptic orbits. , 2012, , .		3
116	From polynomial matrices to markov parameters and back: Theory and numerical algorithms. Linear Algebra and Its Applications, 2012, 437, 783-808.	0.4	1
117	Consistent identification of Hammerstein systems using an ersatz nonlinearity. , 2011, , .		2
118	Frequency-domain stability analysis of retrospective-cost adaptive control for systems with unknown nonminimum-phase zeros. , 2011, , .		28
119	Adaptive State Estimation for Nonminimum-Phase Systems with Uncertain Harmonic Inputs. , 2011, , .		6
120	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
121	Why are some hysteresis loops shaped like a butterfly?. Automatica, 2011, 47, 2658-2664.	3.0	26
122	I-Delay Input and Initial-State Reconstruction for Discrete-Time Linear Systems. Circuits, Systems, and Signal Processing, 2011, 30, 233-262.	1.2	30
123	Retrospective cost based adaptive model refinement for the ionosphere and thermosphere. Statistical Analysis and Data Mining, 2011, 4, 446-458.	1.4	24
124	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
125	A numerical study on controlling a nonlinear multilink arm using a retrospective cost model reference adaptive controller. , 2011, , .		4
126	Robustness of retrospective cost adaptive control to Markov-parameter uncertainty. , 2011, , .		12

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127	Retrospective-cost-based model refinement for system emulation and subsystem identification. , 2011, , .		13
128	Cumulative retrospective cost adaptive control of systems with amplitude and rate saturation. , 2011, , .		8
129	Identification of sensor-only MIMO pseudo transfer functions. , 2011, , .		5
130	Retrospective cost model reference adaptive control for nonminimum-phase discrete-time systems, Part 1: The adaptive controller. , 2011, , .		4
131	Sliding window recursive quadratic optimization with variable regularization. , 2011, , .		1
132	A sudden-release bristle model that exhibits hysteresis and stick-slip friction. , 2011, , .		5
133	Retrospective cost adaptive control for nonminimum-phase systems with uncertain nonminimum-phase zeros using convex optimization. , 2011, , .		2
134	Retrospective cost model reference adaptive control for nonminimum-phase discrete-time systems, Part 2: Stability analysis. , 2011, , .		6
135	SVD-based computation of zeros of polynomial matrices. , 2011, , .		3
136	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
137	On the equality between rank and trace of an idempotent matrix. Applied Mathematics and Computation, 2010, 217, 4076-4080.	1.4	12
138	Arc-length-based Lyapunov tests for convergence and stability with applications to systems having a continuum of equilibria. Mathematics of Control, Signals, and Systems, 2010, 22, 155-184.	1.4	42
139	Retrospective cost adaptive control for nonminimum-phase discrete-time systems, part 2: The adaptive controller and stability analysis. , 2010, , .		1
140	Adaptive static-output-feedback stabilization using retrospective cost optimization. , 2010, , .		1
141	Semiparametric identification of Hammerstein systems using input reconstruction and a single harmonic input. , 2010, , .		1
142	Hybrid retrospective-cost-based adaptive control using concurrent parameter estimation. , 2010, , .		0
143	On the accuracy of least squares algorithms for estimating zeros. , 2010, , .		3
144	Sensor-only fault detection using pseudo transfer function identification. , 2010, , .		6

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145	A comparison of least squares algorithms for estimating Markov parameters. , 2010, , .		17
146	Retrospective cost adaptive control for nonminimum-phase discrete-time systems, part 1: The ideal controller and error system. , 2010, , .		19
147	Adaptive Control Based on Retrospective Cost Optimization. Journal of Guidance, Control, and Dynamics, 2010, 33, 289-304.	1.6	100
148	Parameter consistency and quadratically constrained errors-in-variables least-squares identification. International Journal of Control, 2010, 83, 862-877.	1.2	15
149	Cumulative retrospective cost adaptive control with RLS-based optimization. , 2010, , .		20
150	Input richness and zero buffering in time-domain identification. , 2010, , .		1
151	Semiparametric identification of Wiener systems using a single harmonic input and retrospective cost optimization. , 2010, , .		6
152	Retrospective cost adaptive control of a planar multilink arm with nonminimum-phase zeros. , 2010, , .		12
153	Adaptive control using retrospective cost optimization with RLS-based estimation for concurrent Markov-parameter updating. , 2009, , .		5
154	l-delay input reconstruction for discrete-time linear systems. , 2009, , .		7
155	Why are some hysteresis loops shaped like a butterfly?. , 2009, , .		3
156	A nonlinear observer for semidetactable chemical reactions with application to kinetic-rate-constant estimation. , 2009, , .		1
157	State estimation for linear and non-linear equality-constrained systems. International Journal of Control, 2009, 82, 918-936.	1.2	85
158	A subspace algorithm for simultaneous identification and input reconstruction. International Journal of Adaptive Control and Signal Processing, 2009, 23, 1053-1069.	2.3	26
159	Average-preserving symmetries and energy equipartition in linear Hamiltonian systems. Mathematics of Control, Signals, and Systems, 2009, 21, 127-146.	1.4	6
160	Matrix pencils and existence conditions for quadratic programming with a sign-indefinite quadratic equality constraint. Journal of Global Optimization, 2009, 45, 533-549.	1.1	4
161	Reduced-order state estimation for linear time-varying systems. Asian Journal of Control, 2009, 11, 595-609.	1.9	0
162	Nonlinear feedback models of hysteresis. IEEE Control Systems, 2009, 29, 100-119.	1.0	48

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163	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
164	Stabilization of a 3D axially symmetric pendulum. Automatica, 2008, 44, 2258-2265.	3.0	44
165	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
166	Gain-Constrained Kalman Filtering for Linear and Nonlinear Systems. IEEE Transactions on Signal Processing, 2008, 56, 4113-4123.	3.2	78
167	Global model comparison with Millstone Hill during September 2005. Journal of Geophysical Research, 2008, 113, .	3.3	13
168	Unscented filtering for equality-constrained nonlinear systems. , 2008, , .		11
169	Internal Model Control in the Shift and Delta Domains. IEEE Transactions on Automatic Control, 2008, 53, 1066-1072.	3.6	30
170	Discrete-Time Adaptive Command Following and Disturbance Rejection With Unknown Exogenous Dynamics. IEEE Transactions on Automatic Control, 2008, 53, 912-928.	3.6	103
171	Duhem modeling of friction-induced hysteresis. IEEE Control Systems, 2008, 28, 90-107.	1.0	58
172	Data assimilation for magnetohydrodynamics with a zero-divergence constraint on the magnetic field. , 2008, , .		2
173	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
174	Wind-field reconstruction using flight data. , 2008, , .		27
175	Reduced-rank unscented Kalman filtering using Cholesky-based decomposition. International Journal of Control, 2008, 81, 1779-1792.	1.2	5
176	Markov-parameter-based adaptive control of 3-axis angular velocity in a six-degree-of-freedom stewart platform. , 2008, , .		1
177	A retrospective correction filter for discrete-time adaptive control of nonminimum-phase systems. , 2008, , .		13
178	Ensemble-on-demand Kalman filter for large-scale systems with time-sparse measurements. , 2008, , .		0
179	Magnetic-field estimation using measurements from a floating buoy. , 2008, , .		0
180	Unscented filtering for interval-constrained nonlinear systems. , 2008, , .		31

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181	A Delay-Duhem model for jump-resonance hysteresis. , 2007, , .		3
182	What Are the Physical Dimensions of the A Matrix?. Proceedings of the American Control Conference, 2007, , .	0.0	0
183	Kalman filtering with constrained output injection. International Journal of Control, 2007, 80, 1863-1879.	1.2	18
184	On the Zeros, Initial Undershoot, and Relative Degree of Collinear Lumped-Parameter Structures. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 493-502.	0.9	25
185	Hysteresis Analysis and Feedback Stabilization of Snap-through Buckling. Proceedings of the American Control Conference, 2007, , .	0.0	2
186	Nonminimum-phase zeros - much to do about nothing - classical control - revisited part II. IEEE Control Systems, 2007, 27, 45-57.	1.0	196
187	Duhem Feedback and Friction-Induced Staircase Hysteresis. Proceedings of the American Control Conference, 2007, , .	0.0	1
188	A subspace algorithm for simultaneous identification and input reconstruction. , 2007, , .		4
189	Adaptive Disturbance Rejection for Flow in a Duct with Time-Varying Upstream Velocity. Proceedings of the American Control Conference, 2007, , .	0.0	2
190	Unbiased Minimum-variance Filtering for Input Reconstruction. Proceedings of the American Control Conference, 2007, , .	0.0	29
191	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
192	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
193	Dimensional Analysis of Matrices State-Space Models and Dimensionless Units [Lecture Notes]. IEEE Control Systems, 2007, 27, 100-109.	1.0	9
194	Piecewise Linear Identification for the Rate-Independent and Rate-Dependent Duhem Hysteresis Models. IEEE Transactions on Automatic Control, 2007, 52, 576-582.	3.6	42
195	Direct Adaptive Dynamic Compensation for Minimum Phase Systems With Unknown Relative Degree. IEEE Transactions on Automatic Control, 2007, 52, 610-621.	3.6	22
196	Space Weather Forecasting. IEEE Control Systems, 2007, 27, 109-123.	1.0	11
197	Direct adaptive command following and disturbance rejection for minimum phase systems with unknown relative degree. International Journal of Adaptive Control and Signal Processing, 2007, 21, 49-75.	2.3	23
198	Correlation bounds for discrete-time systems with banded dynamics. Systems and Control Letters, 2007, 56, 83-86.	1.3	1

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199	Least-correlation estimates for errors-in-variables models. International Journal of Adaptive Control and Signal Processing, 2006, 20, 337-351.	2.3	9
200	CFD-Based Adaptive Flow Control for Steady Flow Field Modification. , 2006, , .		3
201	Logarithmic Lyapunov functions for direct adaptive stabilization with normalized adaptive laws. International Journal of Control, 2004, 77, 630-638.	1.2	29
202	Lyapunov-based backward-horizon adaptive stabilization. International Journal of Adaptive Control and Signal Processing, 2003, 17, 67-84.	2.3	19
203	Limit cycle analysis of the verge and foliot clock escapement using impulsive differential equations and Poincaré maps. International Journal of Control, 2003, 76, 1685-1698.	1.2	36
204	Identification of FIR Wiener systems with unknown, non-invertible, polynomial non-linearities. International Journal of Control, 2003, 76, 1500-1507.	1.2	37
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	Identification of Wiener Systems With Known Noninvertible Nonlinearities1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 566-571.	0.9	8
207	Stable H_2 -optimal controller synthesis. Optimal Control Applications and Methods, 2000, 21, 107-124.	1.3	2
208	Robust fixed-structure controller synthesis using the implicit small-gain bound. Journal of the Franklin Institute, 2000, 337, 85-96.	1.9	3
209	Induced Convolution Operator Norms of Linear Dynamical Systems. Mathematics of Control, Signals, and Systems, 2000, 13, 216-239.	1.4	38
210	Global stabilization of systems containing a double integrator using a saturated linear controller. International Journal of Robust and Nonlinear Control, 1999, 9, 1143-1156.	2.1	42
211	A benchmark problem for nonlinear control design. International Journal of Robust and Nonlinear Control, 1998, 8, 307-310.	2.1	137
212	Experimental implementation of integrator backstepping and passive nonlinear controllers on the RTAC testbed. International Journal of Robust and Nonlinear Control, 1998, 8, 435-457.	2.1	63
213	Fixed-structure robust controller synthesis via decentralized static output feedback. International Journal of Robust and Nonlinear Control, 1998, 8, 499-522.	2.1	12
214	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
215	Adaptive Virtual Autobalancing for a Rigid Rotor With Unknown Mass Imbalance Supported by Magnetic Bearings. Journal of Vibration and Acoustics, Transactions of the ASME, 1998, 120, 557-570.	1.0	28
216	Example of indeterminacy in classical dynamics. International Journal of Theoretical Physics, 1997, 36, 545-550.	0.5	8

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217	An implicit small gain condition and an upper bound for the real structured singular value. <i>Systems and Control Letters</i> , 1997, 29, 197-205.	1.3	9
218	Second-Order Systems with Singular Mass Matrix and an Extension of Guyan Reduction. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1996, 17, 649-657.	0.7	19
219	Probability-one homotopy algorithms for full- and reduced-order H_2/H_∞ controller synthesis. <i>Optimal Control Applications and Methods</i> , 1996, 17, 187-208.	1.3	13
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221	Generalized mixed μ 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
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