

Dennis S Bernstein

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.

200 papers	3,820 citations	29 h-index	57 g-index
257 ext. papers	5,005 ext. citations	2.3 avg, IF	5.95 L-index

#	Paper	IF	Citations
200	Retrospective cost adaptive harmonic disturbance rejection using dereverberated target models. <i>Journal of Sound and Vibration</i> , 2022 , 523, 116692	3.9	
199	Dynamic output-feedback control of a chain of discrete-time integrators with arbitrary zeros and asymmetric input saturation. <i>Automatica</i> , 2021 , 125, 109387	5.7	0
198	Counting Zeros Using Observability and Block Toeplitz Matrices. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1301-1305	5.9	2
197	An Introduction to Inertial Navigation From the Perspective of State Estimation [Focus on Education]. <i>IEEE Control Systems</i> , 2021 , 41, 104-128	2.9	1
196	On the McMillan degree of full-normal-rank transfer functions. <i>International Journal of Control</i> , 2020 , 1-9	1.5	
195	What Is the Adjoint of a Linear System? [Lecture Notes]. <i>IEEE Control Systems</i> , 2020 , 40, 62-70	2.9	1
194	Recursive Least Squares With Variable-Direction Forgetting: Compensating for the Loss of Persistency [Lecture Notes]. <i>IEEE Control Systems</i> , 2020 , 40, 80-102	2.9	7
193	Output-Feedback RLS-Based Model Predictive Control* 2020 ,		4
192	Output-only identification of input-output models. <i>Automatica</i> , 2020 , 113, 108686	5.7	2
191	On the zero dynamics of linear input-output models. <i>International Journal of Control</i> , 2020 , 1-10	1.5	
190	Active Noise Control for Harmonic and Broadband Disturbances Using RLS-Based Model Predictive Control 2020 ,		2
189	Recursive Least Squares with Matrix Forgetting 2020 ,		1
188	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	1.5	2
187	Adaptive digital PID control of first-order-lag-plus-dead-time dynamics with sensor, actuator, and feedback nonlinearities. <i>Advanced Control for Applications</i> , 2019 , 1, e20	0.9	0
186	How Slippery Is Viscous Friction? [Lecture Notes]. <i>IEEE Control Systems</i> , 2019 , 39, 73-82	2.9	
185	Counting colorful necklaces and bracelets in three colors. <i>Aequationes Mathematicae</i> , 2019 , 93, 1183-1202	0.7	1
184	Deadbeat unknown-input state estimation and input reconstruction for linear discrete-time systems. <i>Automatica</i> , 2019 , 103, 11-19	5.7	12

183	Recursive Least Squares for Real-Time Implementation [Lecture Notes]. <i>IEEE Control Systems</i> , 2019 , 39, 82-85	2.9	20
182	Minimal-delay FIR delayed left inverses for systems with zero nonzero zeros. <i>Systems and Control Letters</i> , 2019 , 133, 104552	2.4	2
181	Phasor-Based Adaptive Control of a Test-Feeder Distribution Network: Application of Retrospective Cost Adaptive Control to the IEEE 13-Node Test Feeder. <i>IEEE Control Systems</i> , 2019 , 39, 56-74	2.9	2
180	Transmission Matrices for Physical-System Modeling [Lecture Notes]. <i>IEEE Control Systems</i> , 2019 , 39, 88-109	2.9	
179	What Is the Koopman Operator? A Simplified Treatment for Discrete-Time Systems 2019 ,		1
178	On Feasible Body, Aerodynamic, and Navigation Euler Angles for Aircraft Flight. <i>Journal of Guidance, Control, and Dynamics</i> , 2019 , 42, 1130-1135	2.1	1
177	Input Estimation for Nonminimum-Phase Systems With Application to Acceleration Estimation for a Maneuvering Vehicle. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1596-1607	4.8	6
176	Experimental Application of Time-Domain Transmissibility Identification to Fault Detection and Localization in Acoustic Systems. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2018 , 140,	1.6	11
175	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	2	4
174	System Identification Using Composite FIR/IIR Models 2018 ,		5
173	Retrospective Cost Adaptive Control Using Composite FIR/IIR Controllers 2018 ,		1
172	A Targeted Forgetting Factor for Recursive Least Squares 2018 ,		5
171	Reconstruction of Aircraft Lateral Dynamics Using Two Transmissibility Operators 2018 ,		2
170	Time-Domain Errors-in-Variables Identification of Transmissibilities 2018 ,		1
169	Adaptive control of nonminimum-phase systems using shifted Laurent series. <i>International Journal of Control</i> , 2017 , 90, 407-427	1.5	7
168	Closed-loop identification of unstable systems using noncausal FIR models. <i>International Journal of Control</i> , 2017 , 90, 168-185	1.5	22
167	A behavioral equation framework for time-domain transmissibilities. <i>Automatica</i> , 2017 , 78, 20-24	5.7	5
166	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,	1.6	6

165	Retrospective Cost Adaptive Control of Generic Transport Model Under Uncertainty and Failure. <i>Journal of Aerospace Information Systems</i> , 2017 , 14, 123-174	1	9
164	On spatial spillover in feedforward and feedback noise control. <i>Journal of Sound and Vibration</i> , 2017 , 391, 1-19	3.9	1
163	Retrospective Cost Adaptive Control: Pole Placement, Frequency Response, and Connections with LQG Control. <i>IEEE Control Systems</i> , 2017 , 37, 28-69	2.9	13
162	Pareto-front analysis of a monotonic PI control law for slip suppression in a robotic manipulator 2017 ,		2
161	Adaptive control of hammerstein systems with unknown input nonlinearity and partially modeled linear dynamics. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 957-966	2.9	2
160	Aircraft sensor fault detection using state and input estimation 2016 ,		8
159	Is It Possible to Follow Position Commands Using Velocity Measurements? [Lecture Notes]. <i>IEEE Control Systems</i> , 2016 , 36, 93-98	2.9	1
158	Experimental application of transmissibility operators to fault detection 2016 ,		7
157	Adaptive control of mass-spring systems with unknown hysteretic contact friction 2016 ,		2
156	An experimental evaluation of the forward propagating Riccati equation to nonlinear control of the Quanser 3 DOF Hover testbed 2016 ,		4
155	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	2.8	4
154	Experimental investigation of spatial spillover in adaptive feedback noise control of broadband disturbances in a 3D acoustic space 2016 ,		2
153	Retrospective cost adaptive control with concurrent closed-loop identification of time-varying nonminimum-phase zeros 2016 ,		1
152	Kalman-filter-based time-varying parameter estimation via retrospective optimization of the process noise covariance 2016 ,		1
151	Adaptive control of plants that are practically impossible to control by fixed-gain control laws 2016 ,		1
150	A tutorial and overview of retrospective cost adaptive control 2016 ,		4
149	On the role of subspace zeros in retrospective cost adaptive control of non-square plants. <i>International Journal of Control</i> , 2015 , 88, 295-323	1.5	6
148	Aircraft Sensor Health Monitoring Based on Transmissibility Operators. <i>Journal of Guidance, Control, and Dynamics</i> , 2015 , 38, 1492-1495	2.1	12

147	Time-domain analysis of motion transmissibilities in force-driven and displacement-driven structures. <i>Journal of Sound and Vibration</i> , 2015 , 347, 169-183	3.9	9
146	Time-domain analysis of sensor-to-sensor transmissibility operators. <i>Automatica</i> , 2015 , 53, 312-319	5.7	19
145	An inner-loop/outer-loop architecture for an adaptive missile autopilot 2015 ,		2
144	Adaptive control of Hammerstein systems with unknown Prandtl-Bhinskii hysteresis. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2015 , 229, 149-157	1	7
143	Retrospective cost adaptive thrust control of a 1D scramjet with Mach number disturbance 2015 ,		4
142	Retrospective-Cost-Based Adaptive Input and State Estimation for the Ionosphere-Thermosphere. <i>Journal of Aerospace Information Systems</i> , 2015 , 12, 767-783	1	4
141	A subsystem identification technique towards battery state of health monitoring under state of charge estimation errors 2015 ,		1
140	Exploration and mapping of an unknown flight envelope 2014 ,		2
139	A matrix nullspace approach for solving equality-constrained multivariable polynomial least-squares problems. <i>Automatica</i> , 2014 , 50, 3030-3037	5.7	3
138	Adaptive control with convex saturation constraints. <i>IET Control Theory and Applications</i> , 2014 , 8, 1096-1104	1.4	1
137	Minimum modelling retrospective cost adaptive control of uncertain Hammerstein systems using auxiliary nonlinearities. <i>International Journal of Control</i> , 2014 , 87, 483-505	1.5	14
136	Adaptive control of a quadrotor UAV transporting a cable-suspended load with unknown mass 2014 ,		68
135	Inertia-Free Spacecraft Attitude Control Using Reaction Wheels. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 1425-1439	2.1	38
134	Retrospective Cost Optimization for Adaptive State Estimation, Input Estimation, and Model Refinement. <i>Procedia Computer Science</i> , 2013 , 18, 1919-1928	1.6	4
133	Identification of Hammerstein systems using input amplitude multiplexing 2013 ,		2
132	Adaptive spacecraft attitude control with reaction wheel actuation 2013 ,		3
131	Inversion-free adaptive control of uncertain systems with shape-memory-alloy actuation 2013 ,		6
130	Closed-loop identification of unstable systems using noncausal FIR models 2013 ,		2

129	Aliasing effects in direct digital adaptive control of plants with High-Frequency Dynamics and Disturbances 2013 ,		1
128	From polynomial matrices to markov parameters and back: Theory and numerical algorithms. <i>Linear Algebra and Its Applications</i> , 2012 , 437, 783-808	0.9	1
127	Sensor-to-sensor identification of Hammerstein systems 2012 ,		1
126	Forward-integration Riccati-based feedback control for spacecraft rendezvous maneuvers on elliptic orbits 2012 ,		3
125	Forward-integration Riccati-based output-feedback control of linear time-varying systems 2012 ,		8
124	Adaptive forward-propagating input reconstruction for nonminimum-phase systems 2012 ,		5
123	Adaptive control of uncertain Hammerstein systems with monotonic input nonlinearities using auxiliary nonlinearities 2012 ,		2
122	Poincaré recurrence and output reversibility in linear dynamical systems 2012 ,		1
121	Robust sampled-data adaptive control of the Rohrs counterexamples 2012 ,		3
120	Retrospective Cost Model Reference Adaptive Control for Nonminimum-Phase Systems. <i>Journal of Guidance, Control, and Dynamics</i> , 2012 , 35, 1767-1786	2.1	44
119	Frequency-domain stability analysis of retrospective-cost adaptive control for systems with unknown nonminimum-phase zeros 2011 ,		18
118	Adaptive State Estimation for Nonminimum-Phase Systems with Uncertain Harmonic Inputs 2011 ,		3
117	Geometric Insight and Structure Algorithms for Unknown-State, Unknown-Input Reconstruction in Linear Multivariable Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 11320-11325		2
116	Why are some hysteresis loops shaped like a butterfly?. <i>Automatica</i> , 2011 , 47, 2658-2664	5.7	21
115	l-Delay Input and Initial-State Reconstruction for Discrete-Time Linear Systems. <i>Circuits, Systems, and Signal Processing</i> , 2011 , 30, 233-262	2.2	20
114	Retrospective-cost-based adaptive model refinement for the ionosphere and thermosphere. <i>Statistical Analysis and Data Mining</i> , 2011 , 4, 446-458	1.4	14
113	Comments on Butput feedback adaptive command following and disturbance rejection for nonminimum phase uncertain dynamical systems□ <i>International Journal of Adaptive Control and Signal Processing</i> , 2011 , 25, 374-378	2.8	
112	Consistent identification of Hammerstein systems using an ersatz nonlinearity 2011 ,		2

111	A numerical study on controlling a nonlinear multilink arm using a retrospective cost model reference adaptive controller 2011 ,	4
110	Robustness of retrospective cost adaptive control to Markov-parameter uncertainty 2011 ,	7
109	Retrospective-cost-based model refinement for system emulation and subsystem identification 2011 ,	7
108	Cumulative retrospective cost adaptive control of systems with amplitude and rate saturation 2011 ,	3
107	Identification of sensor-only MIMO pseudo transfer functions 2011 ,	5
106	Retrospective cost model reference adaptive control for nonminimum-phase discrete-time systems, Part 1: The adaptive controller 2011 ,	2
105	Sliding window recursive quadratic optimization with variable regularization 2011 ,	1
104	A sudden-release bristle model that exhibits hysteresis and stick-slip friction 2011 ,	2
103	Retrospective cost model reference adaptive control for nonminimum-phase discrete-time systems, Part 2: Stability analysis 2011 ,	2
102	SVD-based computation of zeros of polynomial matrices 2011 ,	2
101	Retrospective cost adaptive control for nonminimum-phase discrete-time systems, part 2: The adaptive controller and stability analysis 2010 ,	1
100	Semiparametric identification of Hammerstein systems using input reconstruction and a single harmonic input 2010 ,	1
99	On the accuracy of least squares algorithms for estimating zeros 2010 ,	2
98	Sensor-only fault detection using pseudo transfer function identification 2010 ,	4
97	A comparison of least squares algorithms for estimating Markov parameters 2010 ,	10
96	Retrospective cost adaptive control for nonminimum-phase discrete-time systems, part 1: The ideal controller and error system 2010 ,	5
95	Adaptive Control Based on Retrospective Cost Optimization. <i>Journal of Guidance, Control, and Dynamics</i> , 2010 , 33, 289-304	2.1 71
94	Parameter consistency and quadratically constrained errors-in-variables least-squares identification. <i>International Journal of Control</i> , 2010 , 83, 862-877	1.5 10

93	Cumulative retrospective cost adaptive control with RLS-based optimization 2010 ,		13
92	Input richness and zero buffering in time-domain identification 2010 ,		1
91	Retrospective cost adaptive control of a planar multilink arm with nonminimum-phase zeros 2010 ,		9
90	On the equality between rank and trace of an idempotent matrix. <i>Applied Mathematics and Computation</i> , 2010 , 217, 4076-4080	2.7	8
89	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	1.3	35
88	Adaptive control using retrospective cost optimization with RLS-based estimation for concurrent Markov-parameter updating 2009 ,		2
87	l-delay input reconstruction for discrete-time linear systems 2009 ,		4
86	Why are some hysteresis loops shaped like a butterfly? 2009 ,		3
85	State estimation for linear and non-linear equality-constrained systems. <i>International Journal of Control</i> , 2009 , 82, 918-936	1.5	63
84	A subspace algorithm for simultaneous identification and input reconstruction. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009 , 23, 1053-1069	2.8	15
83	Identification of the inertia matrix of a rotating body based on errors-in-variables models. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009 , 24, n/a-n/a	2.8	2
82	Average-preserving symmetries and energy equipartition in linear Hamiltonian systems. <i>Mathematics of Control, Signals, and Systems</i> , 2009 , 21, 127-146	1.3	4
81	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	1.5	4
80	Reduced-order state estimation for linear time-varying systems. <i>Asian Journal of Control</i> , 2009 , 11, 595-609		7
79	Nonlinear feedback models of hysteresis. <i>IEEE Control Systems</i> , 2009 , 29, 100-119	2.9	35
78	Matrix Mathematics 2009 ,		723
77	Gain-Constrained Kalman Filtering for Linear and Nonlinear Systems. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 4113-4123	4.8	57
76	Global model comparison with Millstone Hill during September 2005. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		12

75	Unscented filtering for equality-constrained nonlinear systems 2008 ,		7
74	Internal Model Control in the Shift and Delta Domains. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1066-1072	5.9	27
73	Discrete-Time Adaptive Command Following and Disturbance Rejection With Unknown Exogenous Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 912-928	5.9	75
72	Duhem modeling of friction-induced hysteresis. <i>IEEE Control Systems</i> , 2008 , 28, 90-107	2.9	43
71	Data assimilation for magnetohydrodynamics with a zero-divergence constraint on the magnetic field 2008 ,		2
70	Position Control Using Acceleration-Based Identification and Feedback With Unknown Measurement Bias. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2008 , 130,	1.6	2
69	Wind-field reconstruction using flight data 2008 ,		15
68	Reduced-rank unscented Kalman filtering using Cholesky-based decomposition. <i>International Journal of Control</i> , 2008 , 81, 1779-1792	1.5	5
67	A retrospective correction filter for discrete-time adaptive control of nonminimum-phase systems 2008 ,		6
66	Unscented filtering for interval-constrained nonlinear systems 2008 ,		19
65	Call For Papers: International Journal of Robust and Nonlinear Control, Special Issue On Benchmark Problem for Nonlinear Control. <i>International Journal of Robust and Nonlinear Control</i> , 2008 , 6, 83-83	3.6	1
64	Stabilization of a 3D axially symmetric pendulum. <i>Automatica</i> , 2008 , 44, 2258-2265	5.7	33
63	Feedback stabilization of snap-through buckling in a preloaded two-bar linkage with hysteresis. <i>International Journal of Non-Linear Mechanics</i> , 2008 , 43, 277-291	2.8	8
62	Space Weather Forecasting. <i>IEEE Control Systems</i> , 2007 , 27, 109-123	2.9	10
61	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 ^{2.8}		19
60	Correlation bounds for discrete-time systems with banded dynamics. <i>Systems and Control Letters</i> , 2007 , 56, 83-86	2.4	1
59	A Delay-Duhem model for jump-resonance hysteresis 2007 ,		3
58	Kalman filtering with constrained output injection. <i>International Journal of Control</i> , 2007 , 80, 1863-1879	1.5	13

57	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	1.6	19
56	. <i>IEEE Control Systems</i> , 2007 , 27, 45-57	2.9	132
55	A subspace algorithm for simultaneous identification and input reconstruction 2007 ,		2
54	Adaptive Disturbance Rejection for Flow in a Duct with Time-Varying Upstream Velocity. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	2
53	Unbiased Minimum-variance Filtering for Input Reconstruction. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	14
52	IDENTIFICATION OF THE INERTIA MATRIX OF A ROTATING BODY BASED ON ERRORS-IN-VARIABLES MODELS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 182-187		1
51	Dimensional Analysis of Matrices State-Space Models and Dimensionless Units [Lecture Notes]. <i>IEEE Control Systems</i> , 2007 , 27, 100-109	2.9	7
50	Piecewise Linear Identification for the Rate-Independent and Rate-Dependent Duhem Hysteresis Models. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 576-582	5.9	31
49	Direct Adaptive Dynamic Compensation for Minimum Phase Systems With Unknown Relative Degree. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 610-621	5.9	14
48	Least-correlation estimates for errors-in-variables models. <i>International Journal of Adaptive Control and Signal Processing</i> , 2006 , 20, 337-351	2.8	9
47	CFD-Based Adaptive Flow Control for Steady Flow Field Modification 2006 ,		2
46	Logarithmic Lyapunov Functions for direct adaptive stabilization with normalized adaptive laws. <i>International Journal of Control</i> , 2004 , 77, 630-638	1.5	19
45	Lyapunov-based backward-horizon adaptive stabilization. <i>International Journal of Adaptive Control and Signal Processing</i> , 2003 , 17, 67-84	2.8	10
44	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	1.5	32
43	Identification of FIR Wiener systems with unknown, non-invertible, polynomial non-linearities. <i>International Journal of Control</i> , 2003 , 76, 1500-1507	1.5	28
42	Guaranteed cost inequalities for robust stability and performance analysis. <i>International Journal of Robust and Nonlinear Control</i> , 2002 , 12, 1275-1297	3.6	0
41	Identification of Wiener Systems With Known Noninvertible Nonlinearities ¹ . <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2001 , 123, 566-571	1.6	3
40	Stable H ₂ -optimal controller synthesis. <i>Optimal Control Applications and Methods</i> , 2000 , 21, 107-124	1.7	1

39	Robust fixed-structure controller synthesis using the implicit small-gain bound. <i>Journal of the Franklin Institute</i> , 2000 , 337, 85-96	4	2
38	Induced Convolution Operator Norms of Linear Dynamical Systems. <i>Mathematics of Control, Signals, and Systems</i> , 2000 , 13, 216-239	1.3	25
37	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	3.6	29
36	A benchmark problem for nonlinear control design. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 307-310	3.6	88
35	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	3.6	40
34	Fixed-structure robust controller synthesis via decentralized static output feedback. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 499-522	3.6	6
33	Reliable state-space upper bounds for the peak structured singular value. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 611-630	3.6	0
32	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	1.6	22
31	Example of indeterminacy in classical dynamics. <i>International Journal of Theoretical Physics</i> , 1997 , 36, 545-550	1.1	4
30	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	2.4	3
29	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	1.5	17
28	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	1.7	4
27	Global stabilization of the oscillating eccentric rotor. <i>Nonlinear Dynamics</i> , 1996 , 10, 49-62	5	76
26	Generalized mixed- ℓ_1 bounds for real and complex multiple-block uncertainty with internal matrix structure. <i>International Journal of Control</i> , 1996 , 64, 789-806	1.5	13
25	Probability-one homotopy algorithms for full- and reduced-order H ₂ /H _∞ controller synthesis 1996 , 17, 187		3
24	A double-commutator guaranteed cost bound for robust stability and performance. <i>Systems and Control Letters</i> , 1995 , 25, 125-129	2.4	4
23	A chronological bibliography on saturating actuators. <i>International Journal of Robust and Nonlinear Control</i> , 1995 , 5, 375-380	3.6	383
22	Anti-windup compensator synthesis for systems with saturation actuators. <i>International Journal of Robust and Nonlinear Control</i> , 1995 , 5, 521-537	3.6	64

21	GLOBAL ASYMPTOTIC STABILIZATION OF THE SPINNING TOP. <i>Optimal Control Applications and Methods</i> , 1995 , 16, 189-215	1.7	6
20	Real structured singular value synthesis using the scaled Popov criterion. <i>Journal of Guidance, Control, and Dynamics</i> , 1995 , 18, 1244-1252	2.1	8
19	Optimal nonlinear, but continuous, feedback control of systems with saturating actuators. <i>International Journal of Control</i> , 1995 , 62, 1209-1216	1.5	41
18	A popov criterion for uncertain linear multivariable systems. <i>Automatica</i> , 1995 , 31, 1061-1064	5.7	18
17	L2 controller synthesis with L ₂ -bounded closed-loop impulse response. <i>International Journal of Control</i> , 1994 , 60, 1295-1306	1.5	2
16	Reduced-order multirate estimation. <i>Journal of Guidance, Control, and Dynamics</i> , 1994 , 17, 712-721	2.1	8
15	Maximum entropy controller synthesis for colocated and noncolocated systems. <i>Journal of Guidance, Control, and Dynamics</i> , 1994 , 17, 859-862	2.1	3
14	Extensions of mixed- μ bounds to monotonic and odd monotonic nonlinearities using absolute stability theory—This paper was presented at the 1992 IEEE Conference on Decision and Control.. <i>International Journal of Control</i> , 1994 , 60, 905-951	1.5	26
13	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. <i>International Journal of Robust and Nonlinear Control</i> , 1994 , 4, 249-265	3.6	79
12	Compartmental Modeling and Second-Moment Analysis of State Space Systems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1993 , 14, 880-901	1.5	60
11	H2 optimal control with an a-shifted pole constraint. <i>International Journal of Control</i> , 1993 , 58, 1201-1214	1.5	4
10	Maximum-entropy-type Lyapunov functions for robust stability and performance analysis. <i>Systems and Control Letters</i> , 1993 , 21, 73-87	2.4	6
9	Nonquadratic cost and nonlinear feedback control. <i>International Journal of Robust and Nonlinear Control</i> , 1993 , 3, 211-229	3.6	85
8	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. <i>International Journal of Robust and Nonlinear Control</i> , 1993 , 3, 313-339	3.6	104
7	Fixed-order sampled-data estimation. <i>International Journal of Control</i> , 1992 , 55, 129-139	1.5	8
6	Robust stabilization with positive real uncertainty: Beyond the small gain theorem. <i>Systems and Control Letters</i> , 1991 , 17, 191-208	2.4	81
5	Robust stability and performance via fixed-order dynamic compensation with guaranteed cost bounds. <i>Mathematics of Control, Signals, and Systems</i> , 1990 , 3, 139-163	1.3	63
4	Optimal reduced-order observer-estimators. <i>Journal of Guidance, Control, and Dynamics</i> , 1990 , 13, 1126-1135	1.1	16

3	Robust Stability and Performance Analysis for State-Space Systems via Quadratic Lyapunov Bounds. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1990 , 11, 239-271	1.5	55
2	The optimal projection equations for reduced-order, discrete-time modeling, estimation, and control. <i>Journal of Guidance, Control, and Dynamics</i> , 1986 , 9, 288-293	2.1	54
1	The Dynamics of a Bead Sliding on a Freely Rotating Horizontal Wire: An Analytical Solution. <i>Differential Equations and Dynamical Systems</i> ,1	0.8	