

Dennis S Bernstein

List of Publications by Year in descending order

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256
papers

5,862
citations

117625

34
h-index

133252

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. | 3.7 | 506 |
| 2 | Nonminimum-phase zeros - much to do about nothing - classical control - revisited part II. IEEE Control Systems, 2007, 27, 45-57. | 0.8 | 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. | 3.7 | 193 |
| 4 | A benchmark problem for nonlinear control design. International Journal of Robust and Nonlinear Control, 1998, 8, 307-310. | 3.7 | 137 |
| 5 | Robust stabilization with positive real uncertainty: Beyond the small gain theorem. Systems and Control Letters, 1991, 17, 191-208. | 2.3 | 123 |
| 6 | Nonquadratic cost and nonlinear feedback control. International Journal of Robust and Nonlinear Control, 1993, 3, 211-229. | 3.7 | 120 |
| 7 | Global stabilization of the oscillating eccentric rotor. Nonlinear Dynamics, 1996, 10, 49-62. | 5.2 | 111 |
| 8 | Discrete-Time Adaptive Command Following and Disturbance Rejection With Unknown Exogenous Dynamics. IEEE Transactions on Automatic Control, 2008, 53, 912-928. | 5.7 | 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. | 2.3 | 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. | 3.7 | 101 |
| 11 | Adaptive Control Based on Retrospective Cost Optimization. Journal of Guidance, Control, and Dynamics, 2010, 33, 289-304. | 2.8 | 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. | 3.7 | 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. | 1.4 | 89 |
| 15 | Compartmental Modeling and Second-Moment Analysis of State Space Systems. SIAM Journal on Matrix Analysis and Applications, 1993, 14, 880-901. | 1.4 | 86 |
| 16 | State estimation for linear and non-linear equality-constrained systems. International Journal of Control, 2009, 82, 918-936. | 1.9 | 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. | 2.8 | 79 |
| 18 | Gain-Constrained Kalman Filtering for Linear and Nonlinear Systems. IEEE Transactions on Signal Processing, 2008, 56, 4113-4123. | 5.3 | 78 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Retrospective Cost Model Reference Adaptive Control for Nonminimum-Phase Systems. Journal of Guidance, Control, and Dynamics, 2012, 35, 1767-1786. | 2.8 | 74 |
| 20 | Recursive Least Squares for Real-Time Implementation [Lecture Notes]. IEEE Control Systems, 2019, 39, 82-85. | 0.8 | 70 |
| 21 | Extensions of mixed- \mathcal{H}_∞ bounds to monotonic and odd monotonic nonlinearities using absolute stability theory. International Journal of Control, 1994, 60, 905-951. | 1.9 | 65 |
| 22 | Experimental implementation of integrator backstepping and passive nonlinear controllers on the RTAC testbed. International Journal of Robust and Nonlinear Control, 1998, 8, 435-457. | 3.7 | 63 |
| 23 | Duhem modeling of friction-induced hysteresis. IEEE Control Systems, 2008, 28, 90-107. | 0.8 | 58 |
| 24 | Retrospective Cost Adaptive Control: Pole Placement, Frequency Response, and Connections with LQG Control. IEEE Control Systems, 2017, 37, 28-69. | 0.8 | 53 |
| 25 | Optimal nonlinear, but continuous, feedback control of systems with saturating actuators. International Journal of Control, 1995, 62, 1209-1216. | 1.9 | 50 |
| 26 | Nonlinear feedback models of hysteresis. IEEE Control Systems, 2009, 29, 100-119. | 0.8 | 48 |
| 27 | Inertia-Free Spacecraft Attitude Control Using Reaction Wheels. Journal of Guidance, Control, and Dynamics, 2013, 36, 1425-1439. | 2.8 | 45 |
| 28 | Stabilization of a 3D axially symmetric pendulum. Automatica, 2008, 44, 2258-2265. | 5.0 | 44 |
| 29 | Global stabilization of systems containing a double integrator using a saturated linear controller. International Journal of Robust and Nonlinear Control, 1999, 9, 1143-1156. | 3.7 | 42 |
| 30 | Piecewise Linear Identification for the Rate-Independent and Rate-Dependent Duhem Hysteresis Models. IEEE Transactions on Automatic Control, 2007, 52, 576-582. | 5.7 | 42 |
| 31 | 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. | 2.3 | 42 |
| 32 | Time-domain analysis of sensor-to-sensor transmissibility operators. Automatica, 2015, 53, 312-319. | 5.0 | 39 |
| 33 | Closed-loop identification of unstable systems using noncausal FIR models. International Journal of Control, 2017, 90, 168-185. | 1.9 | 39 |
| 34 | Induced Convolution Operator Norms of Linear Dynamical Systems. Mathematics of Control, Signals, and Systems, 2000, 13, 216-239. | 2.3 | 38 |
| 35 | Identification of FIR Wiener systems with unknown, non-invertible, polynomial non-linearities. International Journal of Control, 2003, 76, 1500-1507. | 1.9 | 37 |
| 36 | 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. | 1.9 | 36 |

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| 37 | Generalized mixed- $\frac{1}{4}$ bounds for real and complex multiple-block uncertainty with internal matrix structure. International Journal of Control, 1996, 64, 789-806. | 1.9 | 32 |
| 38 | Unscented filtering for interval-constrained nonlinear systems. , 2008, , . | | 31 |
| 39 | Internal Model Control in the Shift and Delta Domains. IEEE Transactions on Automatic Control, 2008, 53, 1066-1072. | 5.7 | 30 |
| 40 | I-Delay Input and Initial-State Reconstruction for Discrete-Time Linear Systems. Circuits, Systems, and Signal Processing, 2011, 30, 233-262. | 2.0 | 30 |
| 41 | Logarithmic Lyapunov functions for direct adaptive stabilization with normalized adaptive laws. International Journal of Control, 2004, 77, 630-638. | 1.9 | 29 |
| 42 | Unbiased Minimum-variance Filtering for Input Reconstruction. Proceedings of the American Control Conference, 2007, , . | 0.0 | 29 |
| 43 | 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. | 1.6 | 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. Automatica, 1995, 31, 1061-1064. | 5.0 | 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]. IEEE Control Systems, 2020, 40, 80-102. | 0.8 | 27 |
| 48 | A subspace algorithm for simultaneous identification and input reconstruction. International Journal of Adaptive Control and Signal Processing, 2009, 23, 1053-1069. | 4.1 | 26 |
| 49 | Why are some hysteresis loops shaped like a butterfly?. Automatica, 2011, 47, 2658-2664. | 5.0 | 26 |
| 50 | 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. | 1.6 | 25 |
| 51 | Retrospective-cost-based adaptive model refinement for the ionosphere and thermosphere. Statistical Analysis and Data Mining, 2011, 4, 446-458. | 2.8 | 24 |
| 52 | 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. | 4.1 | 23 |
| 53 | Deadbeat unknown-input state estimation and input reconstruction for linear discrete-time systems. Automatica, 2019, 103, 11-19. | 5.0 | 23 |
| 54 | Optimal reduced-order observer-estimators. Journal of Guidance, Control, and Dynamics, 1990, 13, 1126-1135. | 2.8 | 22 |

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| 55 | Direct Adaptive Dynamic Compensation for Minimum Phase Systems With Unknown Relative Degree. IEEE Transactions on Automatic Control, 2007, 52, 610-621. | 5.7 | 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. | 5.2 | 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. | 1.4 | 19 |
| 59 | Lyapunov-based backward-horizon adaptive stabilization. International Journal of Adaptive Control and Signal Processing, 2003, 17, 67-84. | 4.1 | 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. | 2.8 | 18 |
| 62 | Kalman filtering with constrained output injection. International Journal of Control, 2007, 80, 1863-1879. | 1.9 | 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, . | 1.6 | 17 |
| 65 | Minimum modelling retrospective cost adaptive control of uncertain Hammerstein systems using auxiliary nonlinearities. International Journal of Control, 2014, 87, 483-505. | 1.9 | 16 |
| 66 | Parameter consistency and quadratically constrained errors-in-variables least-squares identification. International Journal of Control, 2010, 83, 862-877. | 1.9 | 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. | 2.8 | 14 |
| 70 | Retrospective Cost Adaptive Control of Generic Transport Model Under Uncertainty and Failure. Journal of Aerospace Information Systems, 2017, 14, 123-174. | 1.4 | 14 |
| 71 | Maximum-entropy-type Lyapunov functions for robust stability and performance analysis. Systems and Control Letters, 1993, 21, 73-87. | 2.3 | 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. | 2.1 | 13 |

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| 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. | 2.6 | 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. | 1.0 | 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. | 3.7 | 12 |
| 80 | On the equality between rank and trace of an idempotent matrix. Applied Mathematics and Computation, 2010, 217, 4076-4080. | 2.2 | 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. | 1.4 | 12 |
| 84 | Time-domain analysis of motion transmissibilities in force-driven and displacement-driven structures. Journal of Sound and Vibration, 2015, 347, 169-183. | 3.9 | 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. | 5.0 | 12 |
| 88 | Space Weather Forecasting. IEEE Control Systems, 2007, 27, 109-123. | 0.8 | 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 |

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| 91 | Adaptive control of nonminimum-phase systems using shifted Laurent series. International Journal of Control, 2017, 90, 407-427. | 1.9 | 11 |
| 92 | Recursive Least Squares with Matrix Forgetting. , 2020, , . | | 11 |
| 93 | Fixed-order sampled-data estimation. International Journal of Control, 1992, 55, 129-139. | 1.9 | 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. | 2.8 | 9 |
| 98 | GLOBAL ASYMPTOTIC STABILIZATION OF THE SPINNING TOP. Optimal Control Applications and Methods, 1995, 16, 189-215. | 2.1 | 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. | 2.3 | 9 |
| 100 | Least-correlation estimates for errors-in-variables models. International Journal of Adaptive Control and Signal Processing, 2006, 20, 337-351. | 4.1 | 9 |
| 101 | Dimensional Analysis of Matrices State-Space Models and Dimensionless Units [Lecture Notes]. IEEE Control Systems, 2007, 27, 100-109. | 0.8 | 9 |
| 102 | Adaptive digital PID control of first-order-plus-dead-time dynamics with sensor, actuator, and feedback nonlinearities. Advanced Control for Applications, 2019, 1, e20. | 1.7 | 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. | 1.2 | 8 |
| 105 | Identification of Wiener Systems With Known Noninvertible Nonlinearities1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 566-571. | 1.6 | 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. | 1.9 | 8 |

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| 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, . | 1.6 | 8 |
| 110 | Maximum entropy controller synthesis for colocated and noncolocated systems. <i>Journal of Guidance, Control, and Dynamics</i> , 1994, 17, 859-862. | 2.8 | 7 |
| 111 | A double-commutator guaranteed cost bound for robust stability and performance. <i>Systems and Control Letters</i> , 1995, 25, 125-129. | 2.3 | 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. | 4.1 | 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. | 2.3 | 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. | 5.0 | 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. | 5.0 | 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. | 5.0 | 6 |
| 125 | H2optimal control with an a-shifted pole constraint. <i>International Journal of Control</i> , 1993, 58, 1201-1214. | 1.9 | 5 |
| 126 | Reduced-rank unscented Kalman filtering using Cholesky-based decomposition. <i>International Journal of Control</i> , 2008, 81, 1779-1792. | 1.9 | 5 |

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| 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. Procedia Computer Science, 2013, 18, 1919-1928. | 2.0 | 5 |
| 132 | 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. | 2.6 | 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. Systems and Control Letters, 2019, 133, 104552. | 2.3 | 5 |
| 136 | A numerical investigation of direct and indirect closed-loop architectures for estimating nonminimum-phase zeros. International Journal of Control, 2020, 93, 1251-1265. | 1.9 | 5 |
| 137 | An Introduction to Inertial Navigation From the Perspective of State Estimation [Focus on Education]. IEEE Control Systems, 2021, 41, 104-128. | 0.8 | 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. Journal of Global Optimization, 2009, 45, 533-549. | 1.8 | 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 |

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| 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. | 0.8 | 4 |
| 146 | L2 controller synthesis with L_∞ -bounded closed-loop impulse response. International Journal of Control, 1994, 60, 1295-1306. | 1.9 | 3 |
| 147 | Reliable state-space upper bounds for the peak structured singular value. International Journal of Robust and Nonlinear Control, 1998, 8, 611-630. | 3.7 | 3 |
| 148 | Robust fixed-structure controller synthesis using the implicit small-gain bound. Journal of the Franklin Institute, 2000, 337, 85-96. | 3.4 | 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, . | 1.6 | 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. | 4.1 | 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. | 2.1 | 3 |

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| 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 | Probabilityâ€one homotopy algorithms for full- and reducedâ€order H2/H controller synthesis. Optimal Control Applications and Methods, 1996, 17, 187-208. | 2.1 | 3 |
| 169 | What Is the Adjoint of a Linear System? [Lecture Notes]. IEEE Control Systems, 2020, 40, 62-70. | 0.8 | 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. | 2.1 | 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 |
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| 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. | 2.7 | 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. | 3.9 | 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 Lur'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. | 5.7 | 2 |
| 196 | Is there More to Robust Control Theory than Small Gain?. , 1992, , . | | 2 |
| 197 | Off-axis absolute stability criteria and $\frac{1}{4}$ -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 |

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