Mathematical Control Theory

Texts in Applied Mathematics

,

Citation Report

#	ARTICLE	IF	CITATIONS
1	Maximal mean square strong solution for discrete time coupled algebraic Riccati equations. , 0, , .		0
2	Stabilization of nonlinear dynamical systems using neural networks. , 0, , .		4
3	On the computational power of neural nets. , 1992, , .		110
4	Controllability distributions and systems approximations: a geometric approach. , 0, , .		1
5	Neural networks in control systems. , 0, , .		82
6	Modelling hybrid systems as games. , 0, , .		12
7	Stability of slowly time-varying linear systems. , 1992, , 451-456.		0
8	Algebraic Differential Equations and Rational Control Systems. SIAM Journal on Control and Optimization, 1992, 30, 1126-1149.	1.1	47
9	NonlinearH ? control theory for stable plants. Mathematics of Control, Signals, and Systems, 1992, 5, 233-261.	1.4	35
10	Global asymptotic stabilization for controllable systems without drift. Mathematics of Control, Signals, and Systems, 1992, 5, 295-312.	1.4	361
11	Time-scale decomposition of the reachable set of constrained linear systems. Mathematics of Control, Signals, and Systems, 1992, 5, 327-340.	1.4	12
12	On the relation between small-time local controllability and normal self-reachability. Mathematics of Control, Signals, and Systems, 1992, 5, 41-66.	1.4	14
13	Topological aspects of the partial realization problem. Mathematics of Control, Signals, and Systems, 1992, 5, 117-149.	1.4	15
14	Stable Hermitian solutions of discrete algebraic Riccati equations. Mathematics of Control, Signals, and Systems, 1992, 5, 165-193.	1.4	14
15	Controlability by completions of partial upper triangular matrices. Mathematics of Control, Signals, and Systems, 1993, 6, 30-40.	1.4	15
16	Discrete-Time Transitivity and Accessibility: Analytic Systems. SIAM Journal on Control and Optimization, 1993, 31, 1599-1622.	1.1	57
17	Linear Systems with Sign-Observations. SIAM Journal on Control and Optimization, 1993, 31, 1245-1266.	1.1	24
18	Models for hybrid systems: Automata, topologies, controllability, observability. Lecture Notes in Computer Science, 1993, , 317-356.	1.0	201

#	Article	IF	Citations
19	Control of nonlinear dynamical systems using neural networks: controllability and stabilization. IEEE Transactions on Neural Networks, 1993, 4, 192-206.	4.8	301
20	The stability of constrained receding horizon control. IEEE Transactions on Automatic Control, 1993, 38, 1512-1516.	3.6	863
21	Spectral conditions and an explicit expression for the stabilization of hybrid systems in the presence of feedback delays. Quarterly of Applied Mathematics, 1993, 51, 147-159.	0.5	5
22	Some extremal problems linked with indentification from partial frequency data. , 1993, , 563-573.		10
23	On the continuity and incremental-gain properties of certain saturated linear feedback loops. , 0, , .		10
24	Simple hybrid control systems â€" continuous FDLTI plants with quantized control inputs and symbolic measurements. , 1994, , 369-376.		5
25	Synthesis of Control to Improve Lateral Dynamics of Railway Vehicles. Vehicle System Dynamics, 1994, 23, 47-58.	2.2	2
26	Realization of positive linear systems using polyhedral cones. , 0, , .		7
27	A neural network-based proportional integral derivative controller. Neural Computing and Applications, 1994, 2, 134-141.	3.2	2
28	Stochastic realization of a Gaussian stochastic control system. Acta Applicandae Mathematicae, 1994, 35, 193-212.	0.5	4
29	On the stability of slowly time-varying linear systems. Mathematics of Control, Signals, and Systems, 1994, 7, 331-350.	1.4	96
30	Singular extremals on Lie groups. Mathematics of Control, Signals, and Systems, 1994, 7, 217-234.	1.4	20
31	A General Necessary Condition for Exact Observability. SIAM Journal on Control and Optimization, 1994, 32, 1-23.	1.1	87
32	On Brockettâ€™s Condition for Smooth Stabilizability and Its Necessity in a Context of Nonsmooth Feedback. SIAM Journal on Control and Optimization, 1994, 32, 1597-1604.	1.1	129
33	Controllability distributions and systems approximations: a geometric approach. IEEE Transactions on Automatic Control, 1994, 39, 1473-1476.	3.6	0
34	An approach to autonomous robot assembly. Robotica, 1994, 12, 137-155.	1.3	36
35	On the stability of sampled-data linear time-varying feedback systems. , 0, , .		11
36	Stabilizing Time-Varying Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 159-166.	0.4	3

#	ARTICLE	IF	CITATIONS
37	A survey of singular curves in sub-Riemannian geometry. Journal of Dynamical and Control Systems, 1995, 1, 49-90.	0.4	55
38	Geometrical and topological methods in optimal control theory. Journal of Mathematical Sciences, 1995, 76, 2555-2719.	0.1	12
39	Neural networks, rational functions, and realization theory. Mathematics of Control, Signals, and Systems, 1995, 8, 27-49.	1.4	1
40	An observer for infinite-dimensional dissipative bilinear systems. Computers and Mathematics With Applications, 1995, 29, 13-21.	1.4	37
41	Input to state stabilizability for parametrized families of systems. International Journal of Robust and Nonlinear Control, 1995, 5, 187-205.	2.1	44
42	On the continuity and incremental€gain properties of certain saturated linear feedback loops. International Journal of Robust and Nonlinear Control, 1995, 5, 413-440.	2.1	45
43	Control of nonlinear dynamic systems using a stability based neural network approach. , 0, , .		5
44	Global internal stabilizability does not imply global external stabilizability for small sensor disturbances. IEEE Transactions on Automatic Control, 1995, 40, 2119-2122.	3.6	94
45	Parametric entrainment control of chaotic systems. Physical Review E, 1995, 51, 4065-4075.	0.8	31
46	Real-time tool wear estimation using recurrent neural networks. , 0, , .		5
47	The Dirichlet Problem for Semilinear Second-Order Degenerate Elliptic Equations and Applications to Stochastic Exit Time Control Problems. Communications in Partial Differential Equations, 1995, 20, 129-178.	1.0	72
48	Deterministic LQ preview tracking design. IEEE Transactions on Automatic Control, 1995, 40, 1278-1281.	3.6	8
49	Global output tracking for a class of multi-input multi-output nonlinear systems. , 0, , .		2
50	Developments in nonholonomic control problems. IEEE Control Systems, 1995, 15, 20-36.	1.0	1,064
51	Feedback Stabilization of Nonlinear Systems: Sufficient Conditions and Lyapunov and Input-output Techniques. , 1995, , 293-348.		63
52	A version of Hautus' test for tandem connection of linear systems. IEEE Transactions on Automatic Control, 1995, 40, 111-114.	3.6	2
53	Some aspects of constrained controllability of dynamical discrete-time systems[*]. Optimization, 1995, 33, 57-79.	1.0	0
54	Lyapunov-Like Techniques for Stochastic Stability. SIAM Journal on Control and Optimization, 1995, 33, 1151-1169.	1.1	213

#	Article	IF	Citations
55	Orders of Input/Output Differential Equations and State-Space Dimensions. SIAM Journal on Control and Optimization, 1995, 33, 1102-1126.	1.1	37
56	On the Stabilization in Finite Time of Locally Controllable Systems by Means of Continuous Time-Varying Feedback Law. SIAM Journal on Control and Optimization, 1995, 33, 804-833.	1.1	124
57	On Finite-Gain Stabilizability of Linear Systems Subject to Input Saturation. SIAM Journal on Control and Optimization, 1996, 34, 1190-1219.	1.1	193
59	A Smooth Converse Lyapunov Theorem for Robust Stability. SIAM Journal on Control and Optimization, 1996, 34, 124-160.	1.1	677
60	Identification of the nonlinear state-space dynamics of the action-perception cycle for visually induced postural sway. Biological Cybernetics, 1996, 74, 427-437.	0.6	34
61	Survey of singular geodesics. , 1996, , 325-339.		39
62	Relational Control Structures. Resultate Der Mathematik, 1996, 29, 100-110.	0.2	0
63	Mean-square stabilizing solutions for discrete-time coupled algebraic Riccati equations. IEEE Transactions on Automatic Control, 1996, 41, 593-598.	3.6	21
64	Real-time tool wear estimation using cutting force measurements. , 0, , .		3
65	The real-time behavior of the steam-boiler. Lecture Notes in Computer Science, 1996, , 184-202.	1.0	0
66	Stabilization of Nonholonomic Integrators via Logic-Based Switching. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2341-2346.	0.4	20
67	Critical points for least-squares problems involving certain analytic functions, with applications to sigmoidal nets. Advances in Computational Mathematics, 1996, 5, 245-268.	0.8	11
68	Flow regularity and optimality conditions with controls in L_p. Mathematics of Control, Signals, and Systems, 1996, 9, 189-206.	1.4	4
69	Homogeneous Lyapunov functions and necessary conditions for stabilization. Mathematics of Control, Signals, and Systems, 1996, 9, 34-58.	1.4	71
70	Stabilization by Constrained Controls. SIAM Journal on Control and Optimization, 1996, 34, 1616-1649.	1.1	16
72	Nonlinear control using homotopy methods. , 0, , .		1
73	On fischer-frobenius transformations and the structure of rectangular block hankel matrices. Linear and Multilinear Algebra, 1996, 41, 255-288.	0.5	5
74	/spl theta/-adaptive neural networks: a new approach to parameter estimation. IEEE Transactions on Neural Networks, 1996, 7, 907-918.	4.8	29

#	ARTICLE	IF	CITATIONS
75	Application of homotopy methods to nonlinear control problems. , 0, , .		7
76	A geometric approach to global attitude stabilization. , 1996, , .		2
77	Designing a Coupling That Guarantees Synchronization between Identical Chaotic Systems. Physical Review Letters, 1997, 78, 4189-4192.	2.9	72
78	Error estimation of recurrent neural network models trained on a finite set of initial values. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 1086-1089.	0.1	0
79	A spectral condition for asymptotic controllability and stabilization at singular points. , 0, , .		0
80	A quasi-separation theorem for LQG optimal control with IQ constraints. , 0, , .		0
81	Feedback stabilization of nonlinear systems: a path space iteration approach. , 0, , .		4
82	Feedback control of nonlinear systems based on tangent linearisation using the multiple shooting method. , 0, , .		1
83	Using frozen-time control and tangent linearised control systems for the feedback control of nonlinear systems. , 0, , .		3
85	Sensitive dependence in control systems and reachable sets. Dynamical Systems, 1997, 12, 213-239.	0.7	1
87	Achieving good performance in global attitude stabilization. , 1997, , .		6
88	Error estimation of recurrent neural network models trained on a finite set of initial values. , 0, , .		0
89	Stabilization of distributed parameter systems by piecewise polynomial control. IEEE Transactions on Automatic Control, 1997, 42, 1254-1257.	3.6	12
90	On consistent regularities of control and value functions. Numerical Functional Analysis and Optimization, 1997, 18, 401-426.	0.6	13
91	Structural Identifiability of PBPK Models: Practical Consequences for Modeling Strategies and Study Designs. Critical Reviews in Toxicology, 1997, 27, 261-272.	1.9	32
92	Hybrid dynamical systems, or HDS: The ultimate switching experience. , 1997, , 1-12.		5
93	Controllability of right-invariant systems on solvable lie groups. Journal of Dynamical and Control Systems, 1997, 3, 531-564.	0.4	3
94	Observability of nonlinear differential algebraic systems. Circuits, Systems, and Signal Processing, 1997, 16, 271-285.	1.2	28

#	Article	IF	Citations
95	AN EXTENDED MAXIMUM PRINCIPLE. Nonlinear Analysis: Theory, Methods & Applications, 1997, 29, 159-183.	0.6	17
96	Realization of positive linear systems. Linear Algebra and Its Applications, 1997, 256, 287-308.	0.4	43
97	Batch reactor control using a multiple model–based controller design. Canadian Journal of Chemical Engineering, 1998, 76, 806-815.	0.9	17
98	Predictive control of sheet and film-forming processes. AICHE Journal, 1998, 44, 1713-1723.	1.8	16
99	New converse Lyapunov theorems and related results on exponential stability. Mathematics of Control, Signals, and Systems, 1998, 11, 79-100.	1.4	17
100	Comments on integral variants of ISS. Systems and Control Letters, 1998, 34, 93-100.	1.3	739
101	A learning result for continuous-time recurrent neural networks. Systems and Control Letters, 1998, 34, 151-158.	1.3	9
102	Receding horizon control via Bolza-type optimization. Systems and Control Letters, 1998, 35, 195-200.	1.3	17
103	Structural identifiability of linear compartmental systems. IEEE Transactions on Automatic Control, 1998, 43, 800-818.	3.6	55
104	Global approximate output tracking for nonlinear systems. IEEE Transactions on Automatic Control, 1998, 43, 1389-1398.	3.6	11
105	A unified framework for hybrid control: model and optimal control theory. IEEE Transactions on Automatic Control, 1998, 43, 31-45.	3.6	1,052
106	An Iterative Learning Controller for Nonholonomic Mobile Robots. International Journal of Robotics Research, 1998, 17, 954-970.	5.8	28
107	Real-Time Monitoring and Control of Plasma Etching. Japanese Journal of Applied Physics, 1998, 37, 2381-2387.	0.8	15
108	A homotopy approach for nonlinear control synthesis. IEEE Transactions on Automatic Control, 1998, 43, 1311-1318.	3.6	13
109	Mechatronic Suspension of Railway Vehicles -Focus on Lateral Dynamics. Vehicle System Dynamics, 1998, 29, 521-537.	2.2	0
110	A strong comparison result for the bellman equation arising in stochastic exit time control problems and its applications. Communications in Partial Differential Equations, 1998, 23, 1995-2033.	1.0	51
111	Input-to-state stability with respect to measurement disturbances for one-dimensional systems. ESAIM - Control, Optimisation and Calculus of Variations, 1999, 4, 99-121.	0.7	28
112	Nonlinear Predictive Control and Moving Horizon Estimation â€" An Introductory Overview. , 1999, , 391-449.		247

#	Article	IF	Citations
113	Steady states and constraints in model predictive control. AICHE Journal, 1999, 45, 1266-1278.	1.8	138
114	Computing a molecule in its environment: A mathematical viewpoint. International Journal of Quantum Chemistry, 1999, 71, 227-250.	1.0	12
115	Global guidance stabilization of linear control systems. International Journal of Robust and Nonlinear Control, 1999, 9, 585-598.	2.1	3
117	Information fusion method for system identification based on sensitivity analysis. , 2000, , .		3
118	Nonnegative realizations of matrix transfer functions. Linear Algebra and Its Applications, 2000, 311, 107-129.	0.4	18
119	Pole assignment for stochastic systems with unknown coefficients. Science in China Series D: Earth Sciences, 2000, 43, 313-323.	0.9	2
120	Feedback invariants, critical trajectories and hamiltonian formalism. , 2001, , 545-568.		4
121	Instantaneous kinematics and dexterity of mobile manipulators. , 0, , .		21
122	On the asymptotics of the Lyapunov spectrum under singular perturbations. IEEE Transactions on Automatic Control, 2000, 45, 565-569.	3.6	4
123	Matching and digital control implementation for underactuated systems. , 2000, , .		4
124	Robust stabilization of the Takagi-Sugeno fuzzy model via bilinear matrix inequalities. IEEE Transactions on Fuzzy Systems, 2001, 9, 269-277.	6.5	73
125	Singular sliding-mode control. IEEE Transactions on Automatic Control, 2001, 46, 276-285.	3.6	13
126	Hybrid Systems' Properties — Classification and Relation to Computer Science. Lecture Notes in Computer Science, 2001, , 79-93.	1.0	1
127	Pole-assignment for a class of positive linear systems. International Journal of Systems Science, 2001, 32, 1377-1388.	3.7	15
128	Non-linear system identification using wavelet multiresolution models. International Journal of Control, 2001, 74, 1718-1736.	1.2	40
129	The controllability problem for certain nonlinear intergro-differential volterra systems. Optimization, 2001, 50, 155-186.	1.0	3
130	On the analysis of uncertain hybrid systems with estimated-state feedback. , 2001, , .		1
131	Controllability of kinematic control systems on stratified configuration spaces. IEEE Transactions on Automatic Control, 2001, 46, 358-368.	3.6	39

#	ARTICLE	IF	CITATIONS
132	Automata, circuits and hybrids. , 2001, , .		1
133	Dynamic feedback transformations of controllable linear time-varying systems. , 2001, , 55-62.		4
134	Preservation of controllability-observability in expanded systems. IEEE Transactions on Automatic Control, 2001, 46, 1155-1162.	3.6	25
135	Feedback Stabilization of a Class of Unstable Nonholonomic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 221-230.	0.9	3
136	Augmentation of an existing linear controller with an adaptive element. , 2002, , .		15
137	CANONICAL FORMS FOR 2-DIMENSIONAL LINEAR SYSTEMS OVER COMMUTAT IVE RINGS. Communications in Algebra, 2002, 30, 2993-3011.	0.3	0
138	Linear Feedback Control. , 2002, , 233-275.		0
139	An Augmenting Adaptive Approach to Control of Flexible Systems. , 2002, , .		6
140	Stabilization, pole placement, and regular implementability. IEEE Transactions on Automatic Control, 2002, 47, 735-744.	3.6	74
141	The input-output and controllable behavioural structures of a state space representation. International Journal of Control, 2002, 75, 699-711.	1.2	0
142	Asymptotic Properties of Receding Horizon Optimal Control Problems. SIAM Journal on Control and Optimization, 2002, 40, 1585-1610.	1.1	29
143	Disturbance model design for linear model predictive control. , 2002, , .		16
145	Analysis of linear parameter-varying systems using a non-smooth dissipative systems framework. International Journal of Robust and Nonlinear Control, 2002, 12, 1067-1092.	2.1	18
146	Stability aspects of a multifrequency model of a PWM converter. International Journal of Control, 2003, 76, 309-317.	1.2	2
147	Log-det heuristic for matrix rank minimization with applications to Hankel and Euclidean distance matrices. , 0, , .		313
148	Reduction to Versal Deformations of Matrix Pencils and Matrix Pairs with Application to Control Theory. SIAM Journal on Matrix Analysis and Applications, 2003, 24, 943-962.	0.7	10
149	Uncontrollability for Linear Autonomous Multi-input Dynamical Systems Depending on Parameters. SIAM Journal on Control and Optimization, 2003, 42, 1431-1450.	1.1	4
150	Trust region methods for solving the optimal output feedback design problem. International Journal of Control, 2003, 76, 501-519.	1.2	30

#	ARTICLE	IF	CITATIONS
151	Quantitative Relations and Approximate Process Equivalences. Lecture Notes in Computer Science, 2003, , 508-522.	1.0	34
152	Suboptimal switched controls in context of singular arcs. , 0, , .		15
153	Some perspectives on the analysis and control of complementarity systems. IEEE Transactions on Automatic Control, 2003, 48, 918-935.	3.6	133
154	TIME-DELAYED IMPULSIVE CONTROL OF CHAOTIC HYBRID SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1091-1104.	0.7	17
155	Pseudospectral technique for continuation methods with application to nonlinear control problems. IET Control Theory and Applications, 2004, 151, 531-538.	1.7	1
156	A rank theorem for Vandermonde matrices. Linear Algebra and Its Applications, 2004, 378, 99-107.	0.4	7
157	On the preservation of observability under sampling. Systems and Control Letters, 2004, 52, 7-15.	1.3	21
158	Uniform Stability of Switched Linear Systems: Extensions of LaSalle's Invariance Principle. IEEE Transactions on Automatic Control, 2004, 49, 470-482.	3.6	743
159	Connections between Realizations of a Transfer Function. SIAM Journal on Matrix Analysis and Applications, 2004, 25, 1032-1045.	0.7	0
160	Practical stabilization of single-input nonlinear systems with piecewise constant controllers. , 2004, , .		0
161	Tracking Control of Parabolic Systems. , 2003, , 135-146.		0
162	Passivity based control of transport reaction systems. AICHE Journal, 2005, 51, 3147-3166.	1.8	73
163	Measuring the confinement of probabilistic systems. Theoretical Computer Science, 2005, 340, 3-56.	0.5	37
164	Geometric homogeneity with applications to finite-time stability. Mathematics of Control, Signals, and Systems, 2005, 17, 101-127.	1.4	1,290
165	Performance analysis of saturated systems via two forms of differential inclusions. , 0, , .		6
166	Stabilization of Single-Input Nonlinear Systems Using Higher Order Compensating Sliding Mode Control. , 0, , .		8
167	Quadrature Rules Based on the Arnoldi Process. SIAM Journal on Matrix Analysis and Applications, 2005, 26, 765-781.	0.7	13
168	Enhancements to non-linear multiple model adaptive control schemes. International Journal of Control, 2006, 79, 1010-1025.	1.2	1

#	ARTICLE	IF	CITATIONS
169	Algorithmic and Complexity Results for Decompositions of Biological Networks into Monotone Subsystems. Lecture Notes in Computer Science, 2006, , 253-264.	1.0	13
170	Structural Identifiability of Physiologically Based Pharmacokinetic Models. Journal of Pharmacokinetics and Pharmacodynamics, 2006, 33, 421-439.	0.8	41
171	Real-time estimation of food defrosting by software sensors. AICHE Journal, 2006, 52, 1473-1480.	1.8	0
172	Extended Jacobian inverse kinematics algorithm for nonholonomic mobile robots. International Journal of Control, 2006, 79, 895-909.	1.2	15
173	RESONANCES OF PERIODIC ORBITS IN RÃ—SSLER SYSTEM IN PRESENCE OF A TRIPLE-ZERO BIFURCATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1997-2008.	0.7	12
174	Switched Video Feedback for Sensor Deployment and Target Tracking in a Surveillance Network. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	1
175	Optimal control of multi-level quantum system with energy cost functional. International Journal of Control, 2007, 80, 1299-1306.	1.2	5
176	A control theory framework for performance evaluation of mobile manipulators. Robotica, 2007, 25, 703-715.	1.3	22
179	Binocular vision-based 3-D trajectory following for autonomous robotic manipulation. Robotica, 2007, 25, 615-626.	1.3	22
180	Stabilization of Single-Input Nonlinear Systems Using Piecewise Constant Controllers. IEEE Transactions on Automatic Control, 2007, 52, 1150-1154.	3.6	4
181	Chronological calculus based techniques for solving stabilization problems. Proceedings of the American Control Conference, 2007, , .	0.0	0
182	Accessibility of the matrix Riccati differential equation. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 4130031-4130032.	0.2	0
183	Numerical solution to the optimal feedback control of continuous casting process. Journal of Global Optimization, 2007, 39, 171-195.	1.1	30
184	Singularly Perturbed Monotone Systems andÂanÂApplication to Double Phosphorylation Cycles. Journal of Nonlinear Science, 2008, 18, 527-550.	1.0	25
185	OPTIMAL TARGET TRAJECTORY ESTIMATION AND FILTERING USING NETWORKED SENSORS. Journal of Systems Science and Complexity, 2008, 21, 325-336.	1.6	25
186	Stabilization of single-input nonlinear systems using higher-order term compensating sliding mode control. International Journal of Robust and Nonlinear Control, 2008, 18, 468-480.	2.1	5
187	SINGULARITY COMPUTATION FOR ITERATIVE CONTROL OF NONLINEAR AFFINE SYSTEMS. Asian Journal of Control, 2000, 2, 57-75.	1.9	12
188	The Analytic Versus Representational Theory of Measurement: A Philosophy of Science Perspective: (Invited Article). Measurement Science Review, 2008, 8, .	0.6	5

#	Article	IF	Citations
189	Controllability of multi-agent systems based on agreement protocols. Science in China Series F: Information Sciences, 2009, 52, 2074-2088.	1.1	70
190	Stabilization of the inverted pendulum on a skate. Differential Equations and Dynamical Systems, 2009, 17, 201-215.	0.5	3
191	L^2-absolute and input-to-state stabilities of equations with nonlinear causal mappings. International Journal of Robust and Nonlinear Control, 2009, 19, 151-167.	2.1	6
192	Stability analysis of the drive-train of a wind turbine with quadratic torque control. International Journal of Robust and Nonlinear Control, 2009, 19, 1886-1895.	2.1	7
194	Zeros in linear systems with time delay in state. International Journal of Applied Mathematics and Computer Science, 2009, 19, 609-617.	1.5	4
195	Observability of linear q-difference fractional-order systems with finite initial memory. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2010, 58, .	0.8	2
196	Moving Constraints as Stabilizing Controls in Classical Mechanics. Archive for Rational Mechanics and Analysis, 2010, 196, 97-141.	1.1	20
197	On the geometry of the generalized partial realization problem. Mathematics of Control, Signals, and Systems, 2010, 22, 39-89.	1.4	4
198	Consensus of high-order dynamic multi-agent systems with switching topology and time-varying delays. Journal of Control Theory and Applications, 2010, 8, 52-60.	0.8	58
199	Avoidance Control on Time Scales. Journal of Optimization Theory and Applications, 2010, 145, 527-542.	0.8	17
200	The change of feedback invariants under column perturbations: particular cases. Linear and Multilinear Algebra, 2010, 58, 45-59.	0.5	5
201	From Artstein-Sontag theorem to the min-projection strategy. Transactions of the Institute of Measurement and Control, 2010, 32, 571-581.	1.1	9
202	Consensus seeking of high-order dynamic multi-agent systems with fixed and switching topologies. International Journal of Control, 2010, 83, 404-420.	1.2	111
203	Realization Theory for Linear Hybrid Systems. IEEE Transactions on Automatic Control, 2010, 55, 2282-2297.	3.6	28
204	Continuation method approach to trajectory planning in robotic systems. , 2011, , .		4
205	State Observability and Observers of Linear-Time-Invariant Systems Under Irregular Sampling and Sensor Limitations. IEEE Transactions on Automatic Control, 2011, 56, 2639-2654.	3.6	70
206	Mass Transportation with LQ Cost Functions. Acta Applicandae Mathematicae, 2011, 113, 215-229.	0.5	12
207	A mathematical model for breath gas analysis of volatile organic compounds with special emphasis on acetone. Journal of Mathematical Biology, 2011, 63, 959-999.	0.8	111

#	ARTICLE	IF	CITATIONS
208	Critical stability and stabilization of discrete-time stochastic systems and its applications. International Journal of Control, Automation and Systems, 2011, 9, 1028-1036.	1.6	3
209	On a geometric characterisation of zeros for non-square linear systems with time-delay in state. International Journal of Systems Science, 2011, 42, 2035-2043.	3.7	1
210	Controllability Analysis of Linear Discrete Time Systems with Time Delay in State. Abstract and Applied Analysis, 2012, 2012, 1-11.	0.3	2
211	The Application of Double Closed-Loop Unit Gain Negative Feedback and BP Neural Network Controller in Single Inverted Pendulum. Advanced Materials Research, 2012, 490-495, 1723-1727.	0.3	0
212	ADAPTIVE VERSUS FUZZY CONTROL OF UNCERTAIN MECHANICAL SYSTEMS. International Journal of Applied Mechanics, 2012, 04, 1250019.	1.3	7
213	Social Optima in Mean Field LQG Control: Centralized and Decentralized Strategies. IEEE Transactions on Automatic Control, 2012, 57, 1736-1751.	3.6	176
214	Finite Dimensional Controllability. , 2012, , 395-408.		0
215	Adaptive image interpolation by cardinal splines in piecewise constant tension. Optimization Letters, 2012, 6, 1265-1280.	0.9	8
216	Fractional discrete-time linear control systems with initialisation. International Journal of Control, 2012, 85, 213-219.	1.2	15
217	Stability control and recurrent switching rules. International Journal of Robust and Nonlinear Control, 2013, 23, 663-680.	2.1	4
218	Global positional synthesis and stabilization in finite time of MIMO generalized triangular systems by means of the controllability function method. Journal of Mathematical Sciences, 2013, 189, 795-804.	0.1	7
219	Invariance entropy for random control systems. Mathematics of Control, Signals, and Systems, 2013, 25, 491-516.	1.4	16
220	On stabilisability of nonlinear systems on time scales. International Journal of Control, 2013, 86, 139-145.	1.2	34
221	The design and analysis of parallel experiments to produce structurally identifiable models. Journal of Pharmacokinetics and Pharmacodynamics, 2013, 40, 93-100.	0.8	15
222	Controllability of Linear Discrete-Time Systems with Both Delayed States and Delayed Inputs. Abstract and Applied Analysis, 2013, 2013, 1-5.	0.3	3
223	ON THE CONTROL OF THE MOTION OF A BOAT. Mathematical Models and Methods in Applied Sciences, 2013, 23, 617-670.	1.7	12
226	Finite horizon optimal hybrid reference control for improving transient response of feedback control systems. International Journal of Systems Science, 2014, 45, 1814-1829.	3.7	3
227	On symmetry and controllability of multi-agent systems. , 2014, , .		24

#	Article	IF	Citations
228	Linear Systems: Continuous-Time, Time-Varying State Variable Descriptions. , 2014, , 1-6.		0
230	Linear Systems: Continuous-Time Impulse Response Descriptions. , 2014, , 1-5.		0
231	Open-loop stabilization and destabilization of switched systems in the plane. , 2014, , .		1
232	Optimal Consumption Under Deterministic Income. Journal of Optimization Theory and Applications, 2014, 160, 255-279.	0.8	5
233	From wiener filtering to recent advances on complexity-based system identification and state estimation. , 2014, , .		1
234	Exponential stability criteria for discrete time€delay systems. International Journal of Robust and Nonlinear Control, 2015, 25, 527-541.	2.1	5
235	Lagrangian Jacobian inverse for nonholonomic robotic systems. Nonlinear Dynamics, 2015, 82, 1923-1932.	2.7	12
236	Parametric and Non-parametric Jacobian Motion Planning for Non-holonomic Robotic Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 445-456.	2.0	10
237	A non-monotonic approach to periodic event-triggered control with packet loss. , 2016, , .		2
238	Systems thinking and SEA. Impact Assessment and Project Appraisal, 2016, 34, 176-179.	1.0	5
239	Feedback controls for exact remediability in disturbed dynamical systems. IMA Journal of Mathematical Control and Information, 0, , dnw054.	1.1	1
240	Dynamically consistent Jacobian inverse for non-holonomic robotic systems. Nonlinear Dynamics, 2016, 85, 107-122.	2.7	13
241	Optimal Consumption Until Ruin for an Endowment Described by an Autonomous ODE for an Infinite Time Horizon. Mathematics of Operations Research, 2016, 41, 953-968.	0.8	0
242	Dynamically consistent Jacobian inverse for mobile manipulators. International Journal of Control, 2016, 89, 1159-1168.	1.2	6
243	Minimizing Underwater Noise Generated by Submarine Maneuvering: An Optimal Control Approach. IEEE Journal of Oceanic Engineering, 2016, 41, 362-372.	2.1	3
244	Lagrangian Jacobian Motion Planning: A Parametric Approach. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 85, 511-522.	2.0	3
245	On an algorithm for the problem of tracking a trajectory of a parabolic equation. International Journal of Applied Mathematics and Computer Science, 2017, 27, 457-465.	1.5	3
246	Sensing and control in symmetric networks. Dynamical Systems, 2017, 32, 61-79.	0.2	5

#	ARTICLE	IF	CITATIONS
247	Endogenous Configuration Space Approach: An Intersection of Robotics and Control Theory. Lecture Notes in Control and Information Sciences, 2017, , 209-234.	0.6	7
248	Local uncontrollability for affine control systems with jumps. International Journal of Control, 2017, 90, 1893-1902.	1.2	3
249	A Kalman filter for linear continuous-discrete systems with asynchronous measurements. , 2017, , .		4
250	Extended High-Gain Observers as Disturbance Estimators. SICE Journal of Control Measurement and System Integration, 2017, 10, 125-134.	0.4	45
251	Controllability and Observability Analysis of Nonlinear Positive Discrete Systems. Discrete Dynamics in Nature and Society, 2018, 2018, 1-9.	0.5	2
252	Regulator Problems on Unbounded Domains. Vietnam Journal of Mathematics, 2018, 46, 837-861.	0.4	1
253	Unknown-input Observers for Metzlerian Linear Positive Systems. , 2019, , .		4
254	Normal Forms and Configuration Singularities of a Space Manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 621-634.	2.0	11
255	Infinite Horizon Problems in the Calculus of Variations. Set-Valued and Variational Analysis, 2019, 27, 331-354.	0.5	1
256	Stability and stabilization of linear positive systems on time scales. Positivity, 2020, 24, 1361-1372.	0.3	6
257	Modeling Hybrid Systems. , 2021, , 1275-1286.		0
259	Linear Systems: Continuous-Time, Time-Invariant State Variable Descriptions. , 2021, , 1137-1141.		0
260	Linear Systems: Continuous-Time Impulse Response Descriptions. , 2021, , 1134-1137.		0
261	Asymptotic Synchronization Control of High-order Nonlinear Multiagent Systems Using Barrier Functions. International Journal of Control, Automation and Systems, 2021, 19, 1491-1504.	1.6	4
262	Data-driven optimal switching and control of switched systems. Control Theory and Technology, 2021, 19, 299-314.	1.0	2
263	Linear Systems: Continuous-Time, Time-Varying State Variable Descriptions. , 2021, , 1141-1144.		0
264	Automata and their interaction: Definitional suggestions. Lecture Notes in Computer Science, 1999, , 54-89.	1.0	7
265	Control of continuous plants by symbolic output feedback. Lecture Notes in Computer Science, 1995, , 370-390.	1.0	39

#	ARTICLE	IF	CITATIONS
266	Vapnik-Chervonenkis dimension of recurrent neural networks. Lecture Notes in Computer Science, 1997, , 223-237.	1.0	5
267	A sufficient condition for controllability of a class of hybrid systems. Lecture Notes in Computer Science, 1998, , 374-383.	1.0	16
268	Analyzing and synthesizing hybrid control systems. Lecture Notes in Computer Science, 1998, , 74-113.	1.0	6
269	Future Directions: Dynamic Graphs. Communications and Control Engineering, 2010, , 165-212.	1.0	1
270	Recurrent Neural Networks: Some Systems-Theoretic Aspects. Perspectives in Neural Computing, 1998, , 1-12.	0.1	4
271	Neural Networks for Control. , 1993, , 339-380.		45
272	Multiple Agent Autonomous Control A Hybrid Systems Architecture. , 1993, , 593-623.		12
273	A General Approach to Path Planning for Systems Without Drift. The IMA Volumes in Mathematics and Its Applications, 1998, , 151-168.	0.5	11
274	Information at the Threshold of Interpretation: Science as Human Construction of Sense. Human Perspectives in Health Sciences and Technology, 2020, , 67-99.	0.2	4
275	General Classes of Control-Lyapunov Functions. , 1996, , 87-96.		8
276	Modeling TCP and High Speed TCP: A Nonlinear Extension to AIMD Mechanisms. Lecture Notes in Computer Science, 2004, , 132-143.	1.0	5
277	Observability of Nonlinear Control Systems on Time Scales - Sufficient Conditions. , 2008, , 325-335.		2
278	Synthesis of Optimal Control Policies for Some Infinite-State Transition Systems. Lecture Notes in Computer Science, 2008, , 336-359.	1.0	5
279	Generalized Partial Realizations. European Consortium for Mathematics in Industry, 1997, , 138-156.	0.4	3
280	Modelling and Control of Nonholonomic Mechanical Systems. CISM International Centre for Mechanical Sciences, Courses and Lectures, 1995, , 277-342.	0.3	77
281	On the L_p-stabilization of the double integrator subject to input saturation. ESAIM - Control, Optimisation and Calculus of Variations, 2001, 6, 291-331.	0.7	34
282	Stability Analysis of a High-Dimensional Macrodynamic Model of Real-Financial Interaction: A Cascade of Matrices Approach. SSRN Electronic Journal, 0, , .	0.4	5
283	The Phaseâ€"Space Approach to time Evolution of Quantum States in Confined Systems: the Spectral Splitâ€"Operator Method. International Journal of Applied Mathematics and Computer Science, 2019, 29, 439-451.	1.5	3

#	ARTICLE	IF	CITATIONS
284	Multiple-task motion planning of non-holonomic systems with dynamics. Mechanical Sciences, 2013, 4, 153-166.	0.5	12
285	10.1162/jmlr.2003.3.4-5.803. Applied Physics Letters, 2000, 1, .	1.5	3
286	The Calculus of Variations, Nonsmooth Analysis and Optimal Control. , 2000, , 313-328.		3
287	Real-Financial Interaction: Integrating Supply Side Wage-Price Dynamics and the Stock Market. SSRN Electronic Journal, 0, , .	0.4	0
289	Modified Direct Gradient Descent Control of Nonlinear Systems. Applied Optimization, 2001, , 139-149.	0.4	0
290	Automata, Circuits, and Hybrids: Facets of Continuous Time. Lecture Notes in Computer Science, 2001, , 4-23.	1.0	1
291	Generalized Bezoutian, Factorization of Rational Matrix Functions and Matrix Quadratic Equations. , 2001, , 303-321.		1
292	Representation, Approximation, and Identification. , 2001, , .		0
293	Representation, Approximation, and Identification. , 2005, , 3-1-3-32.		0
295	Control and Observation of the Matrix Riccati Differential Equation. Lecture Notes in Control and Information Sciences, 2009, , 169-184.	0.6	1
296	Approximating Labelled Markov Processes Again!. Lecture Notes in Computer Science, 2009, , 145-156.	1.0	2
297	Finite Dimensional Controllability. , 2009, , 3524-3537.		0
298	Global Observability of Input-affine Polynomial Systems. Transactions of the Society of Instrument and Control Engineers, 2010, 46, 353-355.	0.1	0
300	Polynomial and Matrix Fraction Descriptions. The Electrical Engineering Handbook, 2010, , 6-1-6-21.	0.2	0
301	Universal Control Formula for Feedback Linearizable Systems with Local LQ Performance. SICE Journal of Control Measurement and System Integration, 2011, 4, 22-28.	0.4	2
302	Real-time Obstacle Avoidance of a Two-wheeled Mobile Robot via Minimum Projection Method. Transactions of the Society of Instrument and Control Engineers, 2011, 47, 90-99.	0.1	2
304	Presentation of the Problems and Tools of the Finite Horizon. SpringerBriefs in Optimization, 2014, , 1-29.	0.3	0
305	Nonlinear Adaptive Control. Advances in Industrial Control, 2014, , 151-175.	0.4	4

#	Article	IF	Citations
306	Input/Output and State-Space Stability. , 1991, , 684-691.		18
310	Nonlinear Finite Dimensional Systems With Autonomous Linear Parts. , 1998, , 75-97.		0
311	Putting Some Life Into the System. , 1998, , 41-57.		0
312	Equivalences of discrete-event systems and of hybrid systems. Communications and Control Engineering, 1999, , 251-257.	1.0	0
313	Linear Systems: Continuous-Time, Time-Invariant State Variable Descriptions. , 2015, , 660-664.		0
314	Modeling Hybrid Systems. , 2020, , 1-12.		0
315	Adaptive cooperative control for high-order nonlinear multiagent time-delay systems using barrier functions. IFAC-PapersOnLine, 2020, 53, 4044-4051.	0.5	0
316	A Survey of the Book's Content. Differential-algebraic Equations Forum, 2020, , 7-54.	0.6	0
318	Stabilization of the Inverted Pendulum on a Skate. Differential Equations and Dynamical Systems, 0, , .	0.5	0
319	Overview of complexity and decidability results for three classes of elementary nonlinear systems. , 1999, , 46-58.		3
320	Mean-field formulation for the infinite-horizon mean-variance control of discrete-time linear systems with multiplicative noises. IET Control Theory and Applications, 2020, 14, 2600-2612.	1.2	2
321	Endogenous Configuration Space Approach in Robotics Research. Studies in Systems, Decision and Control, 2021, , 425-454.	0.8	1
322	Coordinate-Free Jacobian Motion Planning: A 3-D Space Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5354-5361.	5.9	2
324	Heavy-Traffic Insensitive Bounds for Weighted Proportionally Fair Bandwidth Sharing Policies. Mathematics of Operations Research, 2022, 47, 2691-2720.	0.8	4
325	Left-invariant optimal control problems on Lie groups: classification and problems integrable by elementary functions. Russian Mathematical Surveys, 2022, 77, 99-163.	0.2	14
326	Exact synchronization and asymptotic synchronization for linear ODEs. Science China Mathematics, 0, , 1.	0.8	0
327	Canonical Forms for Reachable Systems over Von Neumann Regular Rings. Mathematics, 2022, 10, 1845.	1.1	0
328	On the Convergence of a Novel Time-Slicing Approximation Scheme for Feynman Path Integrals. International Mathematics Research Notices, 0, , .	0.5	0