

Alessandro Astolfi

List of Publications by Year in descending order

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Version: 2024-02-01

280
papers

9,605
citations

38742

50
h-index

45317

90
g-index

283
all docs

283
docs citations

283
times ranked

4291
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed-Loop Frequency Analysis of Reset Control Systems. IEEE Transactions on Automatic Control, 2023, 68, 1146-1153.	5.7	3
2	Optimal Control for Nonlinear Systems Driven by a Known Exogenous Signal. IEEE Transactions on Automatic Control, 2022, 67, 3678-3684.	5.7	1
3	Adaptive Formation Tracking Control for First-Order Agents With a Time-Varying Flow Parameter. IEEE Transactions on Automatic Control, 2022, 67, 2481-2488.	5.7	27
4	Adaptive Control for Systems with Time-Varying Parameters—A Survey. Lecture Notes in Control and Information Sciences, 2022, , 217-247.	1.0	1
5	Adaptive Energy Shaping Control of a Class of Nonlinear Soft Continuum Manipulators. IEEE/ASME Transactions on Mechatronics, 2022, 27, 280-291.	5.8	17
6	Energy Management and Control of Photovoltaic and Storage Systems in Active Distribution Grids. IEEE Transactions on Power Systems, 2022, 37, 1956-1968.	6.5	15
7	Spatiotemporal dynamics in spiking recurrent neural networks using modified-full-FORCE on EEG signals. Scientific Reports, 2022, 12, 2896.	3.3	4
8	Attitude Regulation With Bounded Control in the Presence of Large Disturbances With Bounded Moving Average. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 834-846.	13.1	1
9	On the analysis of open-loop Nash equilibria admitting a feedback synthesis in nonlinear differential games. Automatica, 2022, 142, 110389.	5.0	1
10	New Results on Parameter Estimation via Dynamic Regressor Extension and Mixing: Continuous and Discrete-Time Cases. IEEE Transactions on Automatic Control, 2021, 66, 2265-2272.	5.7	62
11	Adaptive energy shaping control of robotic needle insertion. Mechanism and Machine Theory, 2021, 155, 104060.	4.5	10
12	A Fixed-Point Characterization of the Optimal Costate in Finite-Horizon Optimal Control Problems. IEEE Transactions on Automatic Control, 2021, 66, 3562-3574.	5.7	2
13	On the Dynamics of Inherent Balancing of Modular Multilevel DC-AC-DC Converters. IEEE Transactions on Power Electronics, 2021, 36, 34-40.	7.9	4
14	Feedback Stabilization of Nonlinear Systems. , 2021, , 794-803.		0
15	On the Approximation of Moments for Nonlinear Systems. IEEE Transactions on Automatic Control, 2021, 66, 5538-5545.	5.7	12
16	Nonlinear Energy-Maximizing Optimal Control of Wave Energy Systems: A Moment-Based Approach. IEEE Transactions on Control Systems Technology, 2021, 29, 2533-2547.	5.2	25
17	Adaptive Control for Systems With Time-Varying Parameters. IEEE Transactions on Automatic Control, 2021, 66, 1986-2001.	5.7	47
18	Position regulation in Cartesian space of a class of inextensible soft continuum manipulators with pneumatic actuation. Mechatronics, 2021, 76, 102573.	3.3	10

#	ARTICLE	IF	CITATIONS
19	Robust traffic wave damping via shared control. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 128, 103110.	7.6	4
20	Energy- ϵ -maximising moment- ϵ -based constrained optimal control of ocean wave energy farms. <i>IET Renewable Power Generation</i> , 2021, 15, 3395-3408.	3.1	11
21	Adaptive Formation Tracking Control of Directed Networked Vehicles in a Time-Varying Flowfield. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 1883-1891.	2.8	18
22	Constructive design of open-loop Nash equilibrium strategies that admit a feedback synthesis in LQ games. <i>Automatica</i> , 2021, 133, 109840.	5.0	1
23	Nonlinear Model Reduction in the Loewner Framework. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 5711-5726.	5.7	13
24	Stabilization of a Class of Underactuated Nonlinear Systems via Underactuated Back-Stepping. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 5429-5435.	5.7	22
25	An Adaptive Observer-Based Controller Design for Active Damping of a DC Network With a Constant Power Load. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 2312-2324.	5.2	6
26	A Direct Bounded Control Method for Transient Stability Assessment. <i>IFAC-PapersOnLine</i> , 2021, 54, 294-301.	0.9	5
27	Identification-based Adaptive Control for Systems with Time-varying Parameters. , 2021, , .		1
28	Loewner Functions and Model Order Reduction for Nonlinear Input-Affine Descriptor Systems. , 2021, , .		6
29	Optimality and Passivity of Input-Quadratic Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 3229-3240.	5.7	7
30	A Globally Stable Algorithm for the Integration of High-Index Differential-Algebraic Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 2107-2122.	5.7	4
31	Data-driven constrained optimal model reduction. <i>European Journal of Control</i> , 2020, 53, 68-78.	2.6	5
32	Singularities and Moments of Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 3647-3654.	5.7	5
33	Orbital stabilization of nonlinear systems via the immersion and invariance technique. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 1850-1871.	3.7	17
34	Model Matching and Passivation of MIMO Linear Systems via Dynamic Output Feedback and Feedforward. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 4016-4030.	5.7	1
35	Combining Pontryagin's Principle and Dynamic Programming for Linear and Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 5312-5327.	5.7	10
36	Robust dynamic state feedback for underactuated systems with linearly parameterized disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 4112-4128.	3.7	15

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37	Stability of nonlinear differential-algebraic systems via additive identity. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 929-941.	13.1	6
38	Adaptive Control for Nonlinear Systems with Time-Varying Parameters and Control Coefficient. IFAC-PapersOnLine, 2020, 53, 3829-3834.	0.9	10
39	On the Active Nodes of Network Systems. , 2020, , .		3
40	Feedback Stabilization of Nonlinear Systems. , 2020, , 1-10.		1
41	Online Estimation of the Loewner Matrices. , 2020, , .		1
42	Model Reduction by Moment Matching: Beyond Linearity A Review of the Last 10 Years. , 2020, , .		6
43	Loewner Functions for Linear Time-Varying Systems with Applications to Model Reduction. IFAC-PapersOnLine, 2020, 53, 5623-5628.	0.9	8
44	Active Damping of a DC Network with a Constant Power Load: An Adaptive Observer-based Design. , 2019, , .		3
45	Moments of Random Variables: A Systems-Theoretic Interpretation. IEEE Transactions on Automatic Control, 2019, 64, 4407-4422.	5.7	1
46	An Interconnection-Based Interpretation of the Loewner Matrices. , 2019, , .		8
47	Output-Feedback I&I Adaptive Control for Linear Systems with Time-Varying Parameters. , 2019, , .		5
48	Robust Moment-Based Energy-Maximising Optimal Control of Wave Energy Converters. , 2019, , .		9
49	Moment-based constrained optimal control of an array of wave energy converters. , 2019, , .		15
50	Optimal Control for Continuous-time Nonlinear Systems based on a Linear-like Policy Iteration. , 2019, , .		3
51	Traffic Wave Damping: A Shared Control Approach. , 2019, , .		2
52	Stabilization of differential-algebraic systems with Lipschitz nonlinearities via feedback decomposition. , 2019, , .		2
53	Simulation-driven fixed-order controller tuning via moment matching. , 2019, , .		3
54	Output-Feedback Adaptive Control for Systems with Time-Varying Parameters. IFAC-PapersOnLine, 2019, 52, 586-591.	0.9	5

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55	An algebraic approach to dynamic optimisation of nonlinear systems: a survey and some new results. <i>Journal of Control and Decision</i> , 2019, 6, 1-29.	1.6	10
56	A Local Separation Principle via Dynamic Approximate Feedback and Observer Linearization for a Class of Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 111-126.	5.7	12
57	Lateral Control of an Autonomous Vehicle. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018, 3, 228-237.	12.7	63
58	Editorial A New Beginning Within a Solid Tradition. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 1-2.	5.7	3
59	Energy shaping control for buck-boost converters with unknown constant power load. <i>Control Engineering Practice</i> , 2018, 74, 33-43.	5.5	32
60	Backstepping PDE Design: A Convex Optimization Approach. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 1943-1958.	5.7	18
61	Shared-Control for the Lateral Motion of Vehicles. , 2018, , .		2
62	Under-Actuated Back-Stepping: An Introduction. , 2018, , .		5
63	Adaptive Control for Systems with Varying Parameters. , 2018, , .		17
64	A Disturbance Attenuation Approach for the Control of Differential-Algebraic Systems. , 2018, , .		2
65	Discretization schemes for constraint stabilization in nonlinear differential-algebraic systems. , 2018, , .		2
66	The Dimension Estimation Problem for Nonlinear Systems. , 2018, , .		0
67	Energy-maximising control of wave energy converters using a moment-domain representation. <i>Control Engineering Practice</i> , 2018, 81, 85-96.	5.5	54
68	Robust balancing control of flexible inverted-pendulum systems. <i>Mechanism and Machine Theory</i> , 2018, 130, 539-551.	4.5	28
69	A globally stable convergent algorithm for the integration of constrained mechanical systems. , 2018, , .		3
70	Adaptive Control of Linear Systems with Time-Varying Parameters. , 2018, , .		17
71	Data-driven model reduction by moment matching for linear and nonlinear systems. <i>Automatica</i> , 2017, 79, 340-351.	5.0	74
72	A Geometric Characterization of the Persistence of Excitation Condition for the Solutions of Autonomous Systems. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 5666-5677.	5.7	41

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73	A Differential Game Approach to Multi-agent Collision Avoidance. IEEE Transactions on Automatic Control, 2017, 62, 4229-4235.	5.7	132
74	Shared-Control for a Rear-Wheel Drive Car: Dynamic Environments and Disturbance Rejection. IEEE Transactions on Human-Machine Systems, 2017, 47, 723-734.	3.5	17
75	A Review on Model Reduction by Moment Matching for Nonlinear Systems. Lecture Notes in Control and Information Sciences, 2017, , 29-52.	1.0	0
76	Moments of random variables: A system-theoretic interpretation. , 2017, , .		1
77	Model reduction for linear differential inclusions: moment-set and time-variance. , 2017, , .		5
78	Robust H^∞ Control for Autonomous Scooters. IFAC-PapersOnLine, 2017, 50, 297-302.	0.9	2
79	Model reduction by moment matching at isolated singularities for linear systems: a complex analytic approach. IFAC-PapersOnLine, 2017, 50, 6350-6354.	0.9	7
80	A note on the stability of nonlinear differential-algebraic systems * *This work was supported in part by Imperial College London under the Junior Research Fellowship Scheme.. IFAC-PapersOnLine, 2017, 50, 7421-7426.	0.9	4
81	A lateral control assistant for the dynamic model of vehicles subject to state constraints. , 2017, , .		10
82	Eigenvalues and poles of nonlinear systems: A geometric approach. , 2017, , .		5
83	On the stability of constrained mechanical systems. , 2017, , .		4
84	Model reduction by moment matching at isolated singularities for linear systems: A geometric approach. , 2017, , .		7
85	Nonlinear Model Reduction by Moment Matching. Foundations and Trends in Systems and Control, 2017, 4, 224-409.	7.5	41
86	Robust Shared-Control for Rear-Wheel Drive Cars. , 2017, , 15-40.		2
87	Constrained optimal reduced-order models from input/output data. , 2016, , .		7
88	A geometric characterisation of the persistence of excitation condition for sequences generated by discrete-time autonomous systems. , 2016, , .		1
89	A geometric characterisation of persistently exciting signals generated by continuous-time autonomous systems. IFAC-PapersOnLine, 2016, 49, 826-831.	0.9	10
90	Model reduction for hybrid systems with state-dependent jumps. IFAC-PapersOnLine, 2016, 49, 850-855.	0.9	18

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91	Backstepping PDE-based adaptive observer for a Single Particle Model of Lithium-Ion Batteries. , 2016, , .		1
92	Shared Control for the Kinematic and Dynamic Models of a Mobile Robot. IEEE Transactions on Control Systems Technology, 2016, 24, 2112-2124.	5.2	30
93	Nonlinear Moment Matching-Based Model Order Reduction. IEEE Transactions on Automatic Control, 2016, 61, 2837-2847.	5.7	31
94	A note on the electrical equivalent of the moment theory. , 2016, , .		1
95	An adaptive observer for a class of parabolic PDEs based on a convex optimization approach for backstepping PDE design. , 2016, , .		5
96	Nonlinear system identification for autonomous systems via functional equations methods. , 2016, , .		5
97	A Note on Delay Coordinates for Locally Observable Analytic Systems. IEEE Transactions on Automatic Control, 2016, 61, 1409-1412.	5.7	4
98	Crowd-Averse Robust Mean-Field Games: Approximation via State Space Extension. IEEE Transactions on Automatic Control, 2016, 61, 1882-1894.	5.7	10
99	State and Output-Feedback Shared-Control for a Class of Linear Constrained Systems. IEEE Transactions on Automatic Control, 2016, 61, 3209-3214.	5.7	19
100	Moment-Based Discontinuous Phasor Transform and its Application to the Steady-State Analysis of Inverters and Wireless Power Transfer Systems. IEEE Transactions on Power Electronics, 2016, 31, 8448-8460.	7.9	22
101	Model Reduction by Matching the Steady-State Response of Explicit Signal Generators. IEEE Transactions on Automatic Control, 2016, 61, 1995-2000.	5.7	40
102	Model Reduction of Neutral Linear and Nonlinear Time-Invariant Time-Delay Systems With Discrete and Distributed Delays. IEEE Transactions on Automatic Control, 2016, 61, 1438-1451.	5.7	70
103	Invariance-Like Theorems and ϵ -Convergence Properties. IEEE Transactions on Automatic Control, 2016, 61, 648-661.	5.7	9
104	Towards deterministic subspace identification for autonomous nonlinear systems. , 2015, , .		5
105	Model reduction for nonlinear systems and nonlinear time-delay systems from input/output data. , 2015, , .		6
106	Some results on disturbance attenuation for Hamiltonian systems via direct discrete-time design. International Journal of Robust and Nonlinear Control, 2015, 25, 1927-1940.	3.7	2
107	Backstepping PDE design, Volterra and Fredholm operators: A convex optimization approach. , 2015, , .		3
108	Shared-control for the kinematic model of a rear-wheel drive car. , 2015, , .		6

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109	Shared-control for a UAV operating in the 3D space. , 2015, , .		4
110	Dimension estimation for autonomous nonlinear systems. , 2015, , .		2
111	Model reduction for linear systems and linear time-delay systems from input/output data. , 2015, , .		17
112	Constructive Interconnection and Damping Assignment for Port-Controlled Hamiltonian Systems. IEEE Transactions on Automatic Control, 2015, 60, 2350-2361.	5.7	58
113	Constructive ϵ -Nash Equilibria for Nonzero-Sum Differential Games. IEEE Transactions on Automatic Control, 2015, 60, 950-965.	5.7	53
114	Characterization of the moments of a linear system driven by explicit signal generators. , 2015, , .		19
115	Immune Response Enhancement Strategy via Hybrid Control Perspective. Lecture Notes in Computer Science, 2015, , 1-26.	1.3	0
116	Shared-control for the kinematic model of a mobile robot. , 2014, , .		8
117	Model reduction by moment matching for ZIP systems. , 2014, , .		3
118	Output-feedback shared-control for fully actuated linear mechanical systems. , 2014, , .		2
119	Model reduction by moment matching for nonlinear time-delay systems. , 2014, , .		8
120	Families of moment matching based, low order approximations for linear systems. Systems and Control Letters, 2014, 64, 47-56.	2.3	53
121	Dynamic generalized controllability and observability functions with applications to model reduction and sensor deployment. Automatica, 2014, 50, 1349-1359.	5.0	11
122	Conditions for stability of droop-controlled inverter-based microgrids. Automatica, 2014, 50, 2457-2469.	5.0	340
123	Semi-Global Multi-Frequency Estimation in the Presence of Deadzone and Saturation. IEEE Transactions on Automatic Control, 2014, 59, 1913-1918.	5.7	8
124	Solution to the multi-machine transient stability problem and simulated validation in realistic scenarios. IET Generation, Transmission and Distribution, 2014, 8, 1392-1405.	2.5	5
125	A two-point boundary value formulation of a mean-field crowd-averse game. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7819-7824.	0.4	2
126	Stability of Synchronized Motions of Inverter-Based Microgrids Under Droop Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6361-6367.	0.4	10

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127	Mean-field games and two-point boundary value problems. , 2014, , .		2
128	Approximate Solution of HJBE and Optimal Control in Internal Combustion Engines. Lecture Notes in Control and Information Sciences, 2014, , 59-73.	1.0	0
129	Dynamics of Autoimmune Diseases. , 2014, , 491-500.		0
130	Voltage Regulation of a Boost Converter in Discontinuous Conduction Mode: A Simple Robust Adaptive Feedback Controller. IEEE Control Systems, 2013, 33, 55-65.	0.8	10
131	Families of moment matching based, structure preserving approximations for linear port Hamiltonian systems. Automatica, 2013, 49, 2424-2434.	5.0	29
132	Special issue on "periodic systems and robust control"™ dedicated to Osvaldo Maria Grasselli. International Journal of Control, 2013, 86, 1201-1206.	1.9	0
133	Dynamic Lyapunov functions. Automatica, 2013, 49, 1058-1067.	5.0	20
134	Passivity-based control of AC drives: theory for the user and application examples. International Journal of Control, 2013, 86, 625-635.	1.9	10
135	Sensorless Estimation and Nonlinear Control of a Rotational Energy Harvester. Journal of Physics: Conference Series, 2013, 476, 012052.	0.4	1
136	Shared-control for fully actuated linear mechanical systems. , 2013, , .		10
137	A small-gain-like theorem for large-scale systems. , 2013, , .		1
138	Application of Hamiltonian dynamics to manipulator control in constrained workspace. , 2013, , .		1
139	Moment matching for nonlinear port Hamiltonian and gradient systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 395-399.	0.4	6
140	The Design and Control of a Bipedal Robot with Sensory Feedback. International Journal of Advanced Robotic Systems, 2013, 10, 277.	2.1	4
141	A solution to the problem of transient stability of multimachine power systems. , 2012, , .		18
142	A weak version of the small-gain theorem. , 2012, , .		7
143	Theory for the user and application examples of the passivity-based control for AC electric machines. , 2012, , .		1
144	A stochastic approach to distributed power frequency control by means of smart appliances. , 2012, , .		3

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145	Immersion and invariance adaptive control for discrete time systems in strict feedback form. Systems and Control Letters, 2012, 61, 1132-1137.	2.3	29
146	Dynamic Approximate Solutions of the HJ Inequality and of the HJB Equation for Input-Affine Nonlinear Systems. IEEE Transactions on Automatic Control, 2012, 57, 2490-2503.	5.7	73
147	Hamiltonian-Based Clustering: Algorithms for Static and Dynamic Clustering in Data Mining and Image Processing. IEEE Control Systems, 2012, 32, 74-91.	0.8	29
148	Estimation of Rotor Position and Speed of Permanent Magnet Synchronous Motors With Guaranteed Stability. IEEE Transactions on Control Systems Technology, 2011, 19, 601-614.	5.2	152
149	Sampled-data adaptive control for a class of nonlinear systems with parametric uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1261-1266.	0.4	5
150	Moment matching for linear systems – overview and new results*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12739-12744.	0.4	5
151	Passivity and robust PI control of the air supply system of a PEM fuel cell model. Automatica, 2011, 47, 2554-2561.	5.0	49
152	Asymptotic stabilization of passive systems without damping injection: A sampled integral technique. Automatica, 2011, 47, 262-271.	5.0	24
153	A discrete-time observer design for spacecraft attitude determination using an orthogonality-preserving algorithm. Automatica, 2011, 47, 975-980.	5.0	26
154	Discrete time immersion and invariance adaptive control for systems in strict feedback form. , 2011, , .		7
155	Global stabilization of non-globally linearizable triangular systems: Application to transient stability of power systems. , 2011, , .		11
156	Contraction and observer design on cones. , 2011, , .		21
157	A LaSalle version of Matrosov theorem. , 2011, , .		8
158	Hybrid Observer for multi-frequency signals. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 43-48.	0.4	6
159	A globally exponentially convergent immersion and invariance speed observer for mechanical systems with non-holonomic constraints. Automatica, 2010, 46, 182-189.	5.0	120
160	Observer design for range and orientation identification. Automatica, 2010, 46, 1369-1375.	5.0	23
161	Characterization of exponential divergence of the Kalman filter for time-varying systems. , 2010, , .		0
162	Stochastic Detectability and Mean Bounded Error Covariance of the Recursive Kalman Filter with Markov Jump Parameters. Stochastic Analysis and Applications, 2010, 28, 190-201.	1.5	3

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163	Model Reduction by Moment Matching for Linear and Nonlinear Systems. IEEE Transactions on Automatic Control, 2010, 55, 2321-2336.	5.7	254
164	A Condition for Certainty Equivalence Output Feedback Stabilization of Nonlinear Systems. IEEE Transactions on Automatic Control, 2010, 55, 1180-1185.	5.7	13
165	Characterization of Exponential Divergence of the Kalman Filter for Time-Varying Systems. SIAM Journal on Control and Optimization, 2010, 48, 2917-2944.	2.1	11
166	Sensorless Control of Surface-Mount Permanent-Magnet Synchronous Motors Based on a Nonlinear Observer. IEEE Transactions on Power Electronics, 2010, 25, 290-297.	7.9	191
167	Model reduction by moment matching for switched power converters. , 2009, , .		7
168	Estimation of the dynamics of two-dimensional clusters. , 2009, , .		3
169	Asymptotic stabilization of passive systems without damping injection: A sampled integral-approximation technique. , 2009, , .		1
170	Speed and load torque observer for rotating machines. , 2009, , .		11
171	Integrator forwarding without PDEs. , 2009, , .		5
172	Bounds related to the Riccati difference equation for linear time varying systems. , 2009, , .		1
173	Partial stability for a class of nonlinear systems. , 2009, , .		1
174	Homogeneity in the bi-limit as a tool for observer and feedback design. , 2009, , .		4
175	Robust observer design for a class of nonlinear systems using filtering and dynamic scaling. , 2009, , .		2
176	Dynamic extension is unnecessary for stabilization via interconnection and damping assignment passivity-based control. Systems and Control Letters, 2009, 58, 133-135.	2.3	15
177	Asymptotic tracking of a reference trajectory by output-feedback for a class of non linear systems. Systems and Control Letters, 2009, 58, 652-663.	2.3	20
178	Dynamic scaling and observer design with application to adaptive control. Automatica, 2009, 45, 2883-2889.	5.0	96
179	On global extremum seeking in the presence of local extrema. Automatica, 2009, 45, 245-251.	5.0	161
180	High gain observers with updated gain and homogeneous correction terms. Automatica, 2009, 45, 422-428.	5.0	180

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181	Asymptotic stabilization via control by interconnection of port-Hamiltonian systems. <i>Automatica</i> , 2009, 45, 1611-1618.	5.0	26
182	Switching-Driving Lyapunov Function and the Stabilization of the Ball-and-Plate System. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 1881-1886.	5.7	18
183	A globally exponentially convergent immersion and invariance speed observer for n degrees of freedom mechanical systems. , 2009, , .		25
184	Existence, stability and robustness analysis of limit cycles in hybrid anti-lock braking systems. <i>International Journal of Control</i> , 2009, 82, 659-678.	1.9	35
185	A Hamiltonian approach to moments-based font recognition. , 2009, , .		1
186	Hybrid Observer for Global Frequency Estimation of Saturated Signals. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 2461-2464.	5.7	19
187	A Nonlinear Tracking Controller for Voltage-Fed Induction Motors With Uncertain Load Torque. <i>IEEE Transactions on Control Systems Technology</i> , 2009, 17, 608-619.	5.2	125
188	Activation of Immune Response in Disease Dynamics via Controlled Drug Scheduling. <i>IEEE Transactions on Automation Science and Engineering</i> , 2009, 6, 248-255.	5.2	19
189	Partial Stability for a Class of Nonlinear Systems. <i>SIAM Journal on Control and Optimization</i> , 2009, 47, 3203-3219.	2.1	5
190	Towards applied nonlinear adaptive control. <i>Annual Reviews in Control</i> , 2008, 32, 136-148.	7.9	35
191	Robust nonlinear output feedback control for brake by wire control systems. <i>Automatica</i> , 2008, 44, 1078-1087.	5.0	102
192	Global asymptotic stabilization of the attitude and the angular rates of an underactuated non-symmetric rigid body. <i>Automatica</i> , 2008, 44, 1781-1789.	5.0	40
193	A constructive solution for stabilization via immersion and invariance: The cart and pendulum system. <i>Automatica</i> , 2008, 44, 2352-2357.	5.0	63
194	Stabilization of continuous-time switched nonlinear systems. <i>Systems and Control Letters</i> , 2008, 57, 95-103.	2.3	136
195	Nonlinear adaptive control of systems in feedback form: An alternative to adaptive backstepping. <i>Systems and Control Letters</i> , 2008, 57, 733-739.	2.3	90
196	Invariant Manifold Based Reduced-Order Observer Design for Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2602-2614.	5.7	114
197	Nonlinear and Adaptive Control with Applications. <i>Communications and Control Engineering</i> , 2008, , .	1.6	353
198	Homogeneous Approximation, Recursive Observer Design, and Output Feedback. <i>SIAM Journal on Control and Optimization</i> , 2008, 47, 1814-1850.	2.1	642

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199	Design of Positive Linear Observers for Positive Linear Systems via Coordinate Transformations and Positive Realizations. SIAM Journal on Control and Optimization, 2008, 47, 345-373.	2.1	78
200	Control of HIV Infection Dynamics. IEEE Control Systems, 2008, 28, 28-39.	0.8	52
201	Observer design for a class of nonlinear systems using dynamic scaling with application to adaptive control. , 2008, , .		26
202	Model reduction by moment matching for nonlinear systems. , 2008, , .		25
203	Stabilization of a class of non-holonomic systems by means of switching control laws. , 2008, , .		3
204	Control by Interconnection and Standard Passivity-Based Control of Port-Hamiltonian Systems. IEEE Transactions on Automatic Control, 2008, 53, 2527-2542.	5.7	255
205	Finite-time control of cross-chained nonholomic systems by switched state feedback. , 2008, , .		7
206	Control of a planar system with quantized and saturated input/output. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 932-942.	5.4	21
207	Extremum seeking without external dithering and its application to plasma RF heating on FTU. , 2008, , .		7
208	A minimal dimension observer for global frequency estimation. , 2008, , .		20
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210	A Hamiltonian-based algorithm for measurements clustering. , 2008, , .		6
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