Joao P Hespanha

List of Publications by Year
in descending order

260 papers	22,131 citations	38742 50 h-index	12946 131 g-index
268 all docs	268 docs citations	268 times ranked	11205 citing authors

#	Article	IF	Citations
1	Eigenfaces vs. Fisherfaces: recognition using class specific linear projection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1997, 19, 711-720.	13.9	9,612
2	Trajectory-Tracking and Path-Following of Underactuated Autonomous Vehicles With Parametric Modeling Uncertainty. IEEE Transactions on Automatic Control, 2007, 52, 1362-1379.	5.7	776
3	Uniform Stability of Switched Linear Systems: Extensions of LaSalle's Invariance Principle. IEEE Transactions on Automatic Control, 2004, 49, 470-482.	5.7	743
4	Exponential stability of impulsive systems with application to uncertain sampled-data systems. Systems and Control Letters, 2008, 57, 378-385.	2.3	600
5	Stability of switched systems: a Lie-algebraic condition. Systems and Control Letters, 1999, 37, 117-122.	2.3	572
6	Lyapunov conditions for input-to-state stability of impulsive systems. Automatica, 2008, 44, 2735-2744.	5.0	485
7	Switching between stabilizing controllers. Automatica, 2002, 38, 1905-1917.	5.0	388
8	Stabilization of nonlinear systems with limited information feedback. IEEE Transactions on Automatic Control, 2005, 50, 910-915.	5.7	317
9	Nonlinear norm-observability notions and stability of switched systems. IEEE Transactions on Automatic Control, 2005, 50, 154-168.	5.7	270
10	Overcoming the limitations of adaptive control by means of logic-based switching. Systems and Control Letters, 2003, 49, 49-65.	2.3	225
11	Hysteresis-based switching algorithms for supervisory control of uncertain systems. Automatica, 2003, 39, 263-272.	5.0	220
12	Mistuning-Based Control Design to Improve Closed-Loop Stability Margin of Vehicular Platoons. IEEE Transactions on Automatic Control, 2009, 54, 2100-2113.	5.7	215
13	Stabilization of nonholonomic integrators via logic-based switching. Automatica, 1999, 35, 385-393.	5.0	207
14	Distributed Transmit Beamforming Using Feedback Control. IEEE Transactions on Information Theory, 2010, 56, 411-426.	2.4	205
15	Multiple model adaptive control. Part 2: switching. International Journal of Robust and Nonlinear Control, 2001, 11, 479-496.	3.7	199
16	Approximate Moment Dynamics for Chemically Reacting Systems. IEEE Transactions on Automatic Control, 2011, 56, 414-418.	5.7	189
17	Fundamental limits to force detection using quartz tuning forks. Review of Scientific Instruments, 2000, 71, 2776-2780.	1.3	181
18	A cooperative Homicidal Chauffeur game. Automatica, 2009, 45, 1771-1777.	5.0	172

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19	Path-following for nonminimum phase systems removes performance limitations. IEEE Transactions on Automatic Control, 2005, 50, 234-239.	5.7	166
20	Data Transmission Over Networks for Estimation and Control. IEEE Transactions on Automatic Control, 2009, 54, 1807-1819.	5.7	164
21	Performance limitations in reference tracking and path following for nonlinear systems. Automatica, 2008, 44, 598-610.	5.0	163
22	Observability of linear systems under adversarial attacks. , 2015, , .		151
23	Estimation on graphs from relative measurements. IEEE Control Systems, 2007, 27, 57-74.	0.8	140
24	Root-mean-square gains of switched linear systems. IEEE Transactions on Automatic Control, 2003, 48, 2040-2045.	5.7	136
25	Stochastic models for chemically reacting systems using polynomial stochastic hybrid systems. International Journal of Robust and Nonlinear Control, 2005, 15, 669-689.	3.7	132
26	Asymptotically Stable Adaptive–Optimal Control Algorithm With Saturating Actuators and Relaxed Persistence of Excitation. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2386-2398.	11.3	127
27	Graph Effective Resistance and Distributed Control: Spectral Properties and Applications. , 2006, , .		121
28	Optimal Feedback Strength for Noise Suppression in Autoregulatory Gene Networks. Biophysical Journal, 2009, 96, 4013-4023.	0.5	116
29	Hybrid systems: Generalized solutions and robust stability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1-12.	0.4	114
30	Stochastic hybrid systems for studying biochemical processes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4995-5011.	3.4	111
31	A model for stochastic hybrid systems with application to communication networks. Nonlinear Analysis: Theory, Methods & Applications, 2005, 62, 1353-1383.	1.1	107
32	Stability of delay impulsive systems with application to networked control systems. Transactions of the Institute of Measurement and Control, 2010, 32, 511-528.	1.7	102
33	Certainty equivalence implies detectability. Systems and Control Letters, 1999, 36, 1-13.	2.3	101
34	Logic-based switching control of a nonholonomic system with parametric modeling uncertainty. Systems and Control Letters, 1999, 38, 167-177.	2.3	93
35	Multi-model adaptive control of a simulated pH neutralization process. Control Engineering Practice, 2007, 15, 663-672.	5.5	91
36	Supervision of integral-input-to-state stabilizing controllers. Automatica, 2002, 38, 1327-1335.	5.0	88

#	ARTICLE	IF	CITATIONS
37	Stochastic Hybrid Systems: Application to Communication Networks. Lecture Notes in Computer Science, 2004, , 387-401.	1.3	85
38	Detection in Adversarial Environments. IEEE Transactions on Automatic Control, 2014, 59, 3209-3223.	5.7	83
39	On Discrete-Time Pursuit-Evasion Games With Sensing Limitations. IEEE Transactions on Robotics, 2008, 24, 1429-1439.	10.3	82
40	Stability of networked control systems with asynchronous renewal links: An impulsive systems approach. Automatica, 2013, 49, 402-413.	5.0	75
41	On the robust stability and stabilization of sampled-data systems: A hybrid system approach. , 2006, , .		73
42	Coordinated path-following control of multiple underactuated autonomous vehicles in the presence of communication failures. , 2006, , .		72
43	A Derivative Matching Approach to Moment Closure for the Stochastic Logistic Model. Bulletin of Mathematical Biology, 2007, 69, 1909-1925.	1.9	67
44	Root-mean-square gains of switched linear systems: A variational approach. Automatica, 2008, 44, 2398-2402.	5.0	66
45	Hybrid Modeling of TCP Congestion Control. Lecture Notes in Computer Science, 2001, , 291-304.	1.3	65
46	A new TCP for persistent packet reordering. IEEE/ACM Transactions on Networking, 2006, 14, 369-382.	3.8	64
47	Modeling and analysis of networked control systems using stochastic hybrid systems. Annual Reviews in Control, 2014, 38, 155-170.	7.9	63
48	Image Themes and Frames in US Print News Stories about Climate Change. Environmental Communication, 2015, 9, 491-519.	2.5	62
49	Lognormal Moment Closures for Biochemical Reactions. , 2006, , .		60
50	Optimal UAV coordination for target tracking using dynamic programming. , 2010, , .		59
51	Cooperative Search by UAV Teams: A Model Predictive Approach using Dynamic Graphs. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2637-2656.	4.7	59
52	Minimum-Energy State Estimation for Systems With Perspective Outputs. IEEE Transactions on Automatic Control, 2006, 51, 226-241.	5.7	58
53	Estimation From Relative Measurements: Electrical Analogy and Large Graphs. IEEE Transactions on Signal Processing, 2008, 56, 2181-2193.	5.3	57
54	Event-based minimum-time control of oscillatory neuron models. Biological Cybernetics, 2009, 101, 387-399.	1.3	54

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55	Optimotaxis: A Stochastic Multi-agent Optimization Procedure with Point Measurements. Lecture Notes in Computer Science, 2008, , 358-371.	1.3	54
56	Optimal sensor placement for time difference of arrival localization. , 2009, , .		53
57	Redundant data transmission in control/estimation over lossy networks. Automatica, 2012, 48, 1612-1620.	5.0	52
58	Vision-based target tracking with a small UAV: Optimization-based control strategies. Control Engineering Practice, 2014, 32, 28-42.	5.5	50
59	SMT-Based Observer Design for Cyber-Physical Systems under Sensor Attacks. ACM Transactions on Cyber-Physical Systems, 2018, 2, 1-27.	2.5	50
60	Supervisory Control of Discrete-Event Systems Under Attacks. Dynamic Games and Applications, 2019, 9, 965-983.	1.9	50
61	Linear parametrically varying systems with brief instabilities: an application to vision/inertial navigation. IEEE Transactions on Aerospace and Electronic Systems, 2004, 40, 889-902.	4.7	49
62	Resilient Detection in the Presence of Integrity Attacks. IEEE Transactions on Signal Processing, 2014, 62, 31-43.	5.3	49
63	Dubins Traveling Salesman Problem with Neighborhoods: A Graph-Based Approach. Algorithms, 2013, 6, 84-99.	2.1	48
64	Synchronization of Identical Oscillators Coupled Through a Symmetric Network With Dynamics: A Constructive Approach With Applications to Parallel Operation of Inverters. IEEE Transactions on Automatic Control, 2015, 60, 3226-3241.	5.7	48
65	Stability of Delay Impulsive Systems with Application to Networked Control Systems. Proceedings of the American Control Conference, 2007, , .	0.0	46
66	Simultaneous nonlinear model predictive control and state estimation. Automatica, 2017, 77, 143-154.	5.0	46
67	Moment closure for biochemical networks. , 2008, , .		44
68	Flocking with fixed-wing UAVs for distributed sensing: A stochastic optimal control approach. , 2013, , .		44
69	Game Theoretic Stochastic Routing for Fault Tolerance and Security in Computer Networks. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1227-1240.	5.6	43
70	Switched seesaw control for the stabilization of underactuated vehicles. Automatica, 2007, 43, 1997-2008.	5.0	43
71	Algorithms for the traveling Salesman Problem with Neighborhoods involving a dubins vehicle. , 2011, , .		42
72	Nonlinear output-feedback model predictive control with moving horizon estimation. , 2014, , .		42

#	ARTICLE	IF	CITATIONS
73	Equilibrium distributions of simple biochemical reaction systems for time-scale separation in stochastic reaction networks. Journal of the Royal Society Interface, 2014, 11, 20140054.	3.4	41
74	Control With Minimal Cost-Per-Symbol Encoding and Quasi-Optimality of Event-Based Encoders. IEEE Transactions on Automatic Control, 2017, 62, 2286-2301.	5.7	40
75	A Constant Factor Approximation Algorithm for Event-Based Sampling. Proceedings of the American Control Conference, 2007, , .	0.0	37
76	Error Scaling Laws for Linear Optimal Estimation From Relative Measurements. IEEE Transactions on Information Theory, 2009, 55, 5661-5673.	2.4	37
77	Power supply synchronization without communication. , 2012, , .		35
78	State Estimation of Multiagent Systems Under Impulsive Noise and Disturbances. IEEE Transactions on Control Systems Technology, 2015, 23, 13-26.	5.2	35
79	Stochastic and deterministic fault detection for randomized gossip algorithms. Automatica, 2017, 78, 46-60.	5.0	35
80	Broadcast and Gossip Stochastic Average Consensus Algorithms in Directed Topologies. IEEE Transactions on Control of Network Systems, 2019, 6, 474-486.	3.7	35
81	A Constant Factor Approximation Algorithm for Event-Based Sampling. Lecture Notes in Control and Information Sciences, 2010, , 51-60.	1.0	34
82	Distributed Optimal Estimation from Relative Measurements for Localization and Time Synchronization. Lecture Notes in Computer Science, 2006, , 266-281.	1.3	33
83	Modeling Communication Networks With Hybrid Systems. IEEE/ACM Transactions on Networking, 2007, 15, 630-643.	3.8	32
84	On controller initialization in multivariable switching systems. Automatica, 2012, 48, 3157-3165.	5.0	32
85	Robust UAV coordination for target tracking using output-feedback model predictive control with moving horizon estimation. , 2015, , .		32
86	Output-feedback control for stabilization on. Systems and Control Letters, 2008, 57, 1013-1022.	2.3	31
87	Analysis of distributed control systems with shared communication and computation resources. , 2009, , .		31
88	A Converse Lyapunov Theorem and Robustness for Asymptotic Stability in Probability. IEEE Transactions on Automatic Control, 2014, 59, 2426-2441.	5.7	31
89	Cooperative Q-Learning for Rejection of Persistent Adversarial Inputs in Networked Linear Quadratic Systems. IEEE Transactions on Automatic Control, 2018, 63, 1018-1031.	5.7	31
90	Honey-pot constrained searching with local sensory information. Nonlinear Analysis: Theory, Methods & Applications, 2006, 65, 1773-1793.	1.1	30

#	ARTICLE	IF	CITATIONS
91	Switched control of an electropneumatic clutch actuator using on/off valves. , 2008, , .		30
92	Distributed Estimation of Power System Oscillation Modes Under Attacks on GPS Clocks. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1626-1637.	4.7	30
93	Optimal controller initialization for switching between stabilizing controllers. , 2007, , .		29
94	RF source-seeking by a micro aerial vehicle using rotation-based angle of arrival estimates. , 2013, , .		29
95	Quadrotor control for RF source localization and tracking. , 2014, , .		29
96	Autonomy and machine intelligence in complex systems: A tutorial. , 2015, , .		29
97	Dynamic Vehicle Routing for Translating Demands: Stability Analysis and Receding-Horizon Policies. IEEE Transactions on Automatic Control, 2010, 55, 2554-2569.	5.7	28
98	Real-time pricing leading to optimal operation under distributed decision makings. , 2014, , .		27
99	A Reaction-Diffusion Model for Epidemic Routing in Sparsely Connected MANETs. , 2010, , .		26
100	Stochastic Networked Control Systems with Dynamic Protocols. Asian Journal of Control, 2015, 17, 99-110.	3.0	26
101	Distributed output-feedback model predictive control for multi-agent consensus. Systems and Control Letters, 2019, 127, 52-59.	2.3	25
102	What Tasks can be Performed with an Uncalibrated Stereo Vision System?. International Journal of Computer Vision, 1999, 35, 65-85.	15.6	24
103	Polynomial Stochastic Hybrid Systems. Lecture Notes in Computer Science, 2005, , 322-338.	1.3	24
104	Tracking control for snake robot joints. , 2007, , .		23
105	Stability Analysis of Robust Multiple Model Adaptive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 350-355.	0.4	23
106	Bayesian localization and mapping using GNSS SNR measurements. , 2014, , .		23
107	Stochastic Optimal Coordination of Small UAVs for Target Tracking using Regression-based Dynamic Programming. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 82, 135-162.	3.4	23
108	Communication Logic Design and Analysis for Networked Control Systems. , 2006, , 495-514.		23

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109	Tracking control for networked control systems. , 2007, , .		21
110	Optimal Estimation on the Graph Cycle Space. IEEE Transactions on Signal Processing, 2011, 59, 2834-2846.	5.3	21
111	Anticipative and Non-anticipative Controller Design for Network Control Systems. , 0, , 203-218.		21
112	Stabilization of Nonholonomic Integrators via Logic-Based Switching. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2341-2346.	0.4	20
113	Cooperative graph-based model predictive search. , 2007, , .		20
114	Localization with sparse acoustic sensor network using UAVs as information-seeking data mules. ACM Transactions on Sensor Networks, 2013, 9, 1-29.	3.6	20
115	Scale-Independent Hysteresis Switching. Lecture Notes in Computer Science, 1999, , 117-122.	1.3	19
116	Stabilization of Networked Control Systems Under Clock Offsets and Quantization. IEEE Transactions on Automatic Control, 2018, 63, 1708-1723.	5.7	19
117	Approximate Distributed Kalman Filtering for Cooperative Multi-agent Localization. Lecture Notes in Computer Science, 2010, , 102-115.	1.3	19
118	SMT-Based Observer Design for Cyber-Physical Systems under Sensor Attacks. , 2016, , .		18
119	Following an RF trail to its source. , 2011, , .		17
120	Stochastic hybrid systems: A modeling and stability theory tutorial. , 2015, , .		17
121	Simultaneous model predictive control and moving horizon estimation for blood glucose regulation in Type 1 diabetes. Optimal Control Applications and Methods, 2018, 39, 904-918.	2.1	17
122	A PageRank Algorithm based on Asynchronous Gauss-Seidel Iterations. , 2018, , .		17
123	Cooperative pursuit with sensing limitations. Proceedings of the American Control Conference, 2007, , .	0.0	16
124	Robust filtering for deterministic systems with implicit outputs. Systems and Control Letters, 2009, 58, 263-270.	2.3	16
125	&#x2112;<inf>2</inf>-induced gains of switched systems and classes of switching signals. , 2010, , .		16
126	Gossip average consensus in a Byzantine environment using stochastic Set-Valued Observers. , 2013, , .		16

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127	The Impact of Information in Distributed Submodular Maximization. IEEE Transactions on Control of Network Systems, 2019, 6, 1334-1343.	3.7	16
128	Cautious hierarchical switching control of stochastic linear systems. International Journal of Adaptive Control and Signal Processing, 2004, 18, 319-333.	4.1	15
129	Control of impulsive renewal systems: Application to direct design in networked control. , 2009, , .		15
130	â„'<inf>2</inf>-induced gain analysis for a class of switched systems. , 2009, , .		15
131	Jump Control of Probability Densities With Applications to Autonomous Vehicle Motion. IEEE Transactions on Automatic Control, 2012, 57, 2588-2598.	5.7	15
132	GPS-optimal micro air vehicle navigation in degraded environments. , 2014, , .		15
133	Stabilization of systems with asynchronous sensors and controllers. Automatica, 2017, 81, 314-321.	5.0	15
134	Fault detection for LPV systems using Set-Valued Observers: A coprime factorization approach. Systems and Control Letters, 2017, 106, 32-39.	2.3	15
135	Online Optimal Operation of Parallel Voltage-Source Inverters Using Partial Information. IEEE Transactions on Industrial Electronics, 2017, 64, 4296-4305.	7.9	15
136	Self-Triggered and Event-Triggered Set-Valued Observers. Information Sciences, 2018, 426, 61-86.	6.9	15
137	Finite-time average consensus in a Byzantine environment using Set-Valued Observers. , 2014, , .		14
138	Setâ€based fault detection and isolation for detectable linear parameterâ€varying systems. International Journal of Robust and Nonlinear Control, 2017, 27, 4381-4397.	3.7	14
139	A cooperative homicidal chauffeur game. , 2007, , .		13
140	Vision-based control for rigid body stabilization. Automatica, 2011, 47, 1020-1027.	5.0	13
141	Implementation Considerations For Wireless Networked Control Systems. , 2011, , 1-27.		13
142	Effective resistance of Gromov-hyperbolic graphs: Application to asymptotic sensor network problems. , 2007, , .		12
143	Root-mean-square gains of switched linear systems: A variational approach. , 2007, , .		12
144	Redundant data transmission in control/estimation over wireless networks. , 2009, , .		12

#	ARTICLE	IF	CITATIONS
145	Unfalsified adaptive switching supervisory control of time varying systems. , 2009, , .		12
146	Model-free Adaptive Switching Control of Uncertain Time-Varying Plants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1273-1278.	0.4	12
147	Randomized sampling for large zero-sum games. Automatica, 2013, 49, 1184-1194.	5.0	12
148	Sensing limitations in the Lion and Man problem. Proceedings of the American Control Conference, 2007, , .	0.0	11
149	Control of Large Vehicular Platoons: Improving Closed Loop Stability by Mistuning. Proceedings of the American Control Conference, 2007, , .	0.0	11
150	On UAV routing protocols for sparse sensor data exfiltration. , 2010, , .		11
151	ℒ<inf>2</inf>-induced gain analysis of switched linear systems via finitely parametrized storage functions. , 2010, , .		11
152	Belief propagation based localization and mapping using sparsely sampled GNSS SNR measurements. , 2014, , .		11
153	Impact of information in greedy submodular maximization. , 2017, , .		11
154	Computation of Root-Mean-Square Gains of Switched Linear Systems. Lecture Notes in Computer Science, 2002, , 239-252.	1.3	11
155	Stability of impulsive systems driven by renewal processes. , 2009, , .		9
156	Towards modularity in biological networks while avoiding retroactivity. , 2013, , .		9
157	Control under clock offsets and actuator saturation. , 2015, , .		9
158	Robust eventâ€triggered output feedback learning algorithm for voltage source inverters with unknown load and parameter variations. International Journal of Robust and Nonlinear Control, 2019, 29, 3502-3517.	3.7	9
159	Desynchronization for Decentralized Medium Access Control based on Gauss-Seidel Iterations. , 2019, , .		9
160	Resilient Desynchronization for Decentralized Medium Access Control. , 2021, 5, 803-808.		9
161	Supervisory control of integral-input-to-state stabilizing controllers. , 1999, , .		9
162	Quadratic optimization for controller initialization in multivariable switching systems. , 2010, , .		8

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163	Multiple event localization in a sparse acoustic sensor network using UAVs as data mules. , 2012, , .		8
164	Output regulation for non‐square linear multi‐rate systems. International Journal of Robust and Nonlinear Control, 2014, 24, 968-990.	3.7	8
165	Quadratic control of stochastic hybrid systems with renewal transitions. Automatica, 2014, 50, 2822-2834.	5.0	8
166	Real-time pricing and distributed decision makings leading to optimal power flow of power grids. , 2015, , .		8
167	D-SLATS. , 2017, , .		8
168	On topological entropy and stability of switched linear systems. , 2019, , .		8
169	Greedy control for hybrid pursuit games. , 2001, , .		7
170	On the effect of asymmetric communication on distributed time synchronization. , 2007, , .		7
171	Impulsive systems triggered by superposed renewal processes. , 2010, , .		7
172	EVOLUTION OF TRANSCRIPTION NETWORKS IN RESPONSE TO TEMPORAL FLUCTUATIONS. Evolution; International Journal of Organic Evolution, 2013, 67, 1091-1104.	2.3	7
173	Probabilistic 3D mapping based on GNSS SNR measurements. , 2014, , .		7
174	Stability of an adaptive switched controller for power system oscillation damping using remote synchrophasor signals. , 2014, , .		7
175	Stabilization of networked control systems with clock offsets. , 2015, , .		7
176	Distributed Fault Detection Using Relative Information in Linear Multi-Agent Networks ã˜... ã˜...The work from Daniel Silvestre was supported by the project FCT [UID/EEA/50009/2013] and with grant SFRH//BD/71206/2010, from Fundação para a Ciência e a Tecnologia. J. Hespanha was supported by the U.S. Army Research Laboratory and the U.S. Army Research Office under grants No. W911NF-09-1-0553 and W911NF-09-D-0001. C. Silvestre was supported by project MYRG117(Y1-L3)-FST12-MKM of the University of Macau.. IFAC-PapersOnLine, 2015, 48, 446-451.	0.9	7
177	Real-time control under clock offsets between sensors and controllers. , 2015, , .		7
178	Game-Theory-Based Consensus Learning of Double-Integrator Agents in the Presence of Worst-Case Adversaries. Journal of Optimization Theory and Applications, 2018, 177, 222-253.	1.5	7
179	Output-feedback Linear Quadratic Robust Control under Actuation and Deception Attacks. , 2019, , .		7
180	Topological entropy of switched linear systems: general matrices and matrices with commutation relations. Mathematics of Control, Signals, and Systems, 2020, 32, 411-453.	2.3	7

#	ARTICLE	IF	CITATIONS
181	Vision-based control for rigid body stabilization. , 2007, , .		6
182	Reducing noise through translational control in an auto-regulatory gene network. , 2009, , .		6
183	Randomized sampling for large zero-sum games. , 2010, , .		6
184	Autonomous UAV persistent surveillance using bio-inspired strategies. , 2012, , .		6
185	Online optimal switching of single phase DC/AC inverters using partial information. , 2014, , .		6
186	A Robust Control Strategy With Perturbation Estimation for the Parrot Mambo Platform. IEEE Transactions on Control Systems Technology, 2021, 29, 1389-1404.	5.2	6
187	Output-feedback control for stabilization on SE(3). , 2006, , .		5
188	A pursuit game with range-only measurements. , 2008, , .		5
189	Scaling of stochasticity in gene cascades. , 2008, , .		5
190	Dynamic vehicle routing with moving demands - Part I: Low speed demands and high arrival rates. , 2009, , .		5
191	Hybrid moment computation algorithm for biochemical reaction networks. , 2010, , .		5
192	Stochastic Hybrid Systems with renewal transitions. , 2010, , .		5
193	Randomized solutions to partial information dynamic zero-sum games. , 2011, , .		5
194	Direct numerical solution of algebraic Lyapunov equations for large-scale systems using Quantized Tensor Trains. , 2013, , .		5
195	Control with minimum communication cost per symbol. , 2014, , .		5
196	Self-Triggered Set-Valued Observers. , 2015, , .		5
197	Quasi-optimality of event-based encoders. , 2015, , .		5
198	Robust estimator design for switched systems with unknown switching time: An LMI-based approach. European Journal of Control, 2018, 44, 58-64.	2.6	5

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199	Modeling and Mitigating the Coremelt Attack. , 2018, , .		5
200	Stochastic and Deterministic State-Dependent Social Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 911-926.	9.3	5
201	One-class slab support vector machine. , 2016, , .		5
202	Trajectory tracking for a class of switched nonlinear systems: Application to PMSM. Nonlinear Analysis: Hybrid Systems, 2022, 44, 101164.	3.5	5
203	Nonlinear Control for the Dual Smart Drive Using Backstepping and a Time-Optimal Reference. Autonomous Robots, 2005, 19, 233-255.	4.8	4
204	Cooperative Graph Search Using Fractal Decomposition. Proceedings of the American Control Conference, 2007, , .	0.0	4
205	Dynamic vehicle routing with moving demands - Part II: High speed demands or low arrival rates. , 2009, , .		4
206	Optimal estimation on the graph cycle space. , 2010, , .		4
207	Construction of Lyapunov functions for piecewise-deterministic Markov processes. , 2010, , .		4
208	Learning consensus in adversarial environments. , 2013, , .		4
209	An H-infinity approach to stealth-resilient control design. , 2016, , .		4
210	Conditions for saddle-point equilibria in output-feedback MPC with MHE. , 2016, , .		4
211	L2-gain analysis of systems with clock offsets. , 2016, , .		4
212	Node localization based on distributed constrained optimization using Jacobi's method. , 2017, , .		4
213	Cyclops: PRU programming framework for precise timing applications. , 2017, , .		4
214	Limbic System-Inspired Performance-Guaranteed Control for Nonlinear Multi-Agent Systems With Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4196-4207.	11.3	4
215	Stochastic networked control systems with dynamic protocols. , 2011, , .		3
216	A Minimum Energy solution to Monocular Simultaneous Localization and Mapping. , 2011, , .		3

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217	A spectral methods-based solution of the Chemical Master Equation for gene regulatory networks. , 2012, , .		3
218	Networked Control Systems: Estimation and Control Over Lossy Networks. , 2014, , 1-9.		3
219	Finite-time convergence policies in state-dependent social networks. , 2015, , .		3
220	Approximate optimal adaptive control for weakly coupled nonlinear systems: A neuro‐inspired approach. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1494-1522.	4.1	3
221	Local carrier-based precision approach and landing system. , 2016, , .		3
222	Strategic Information Sharing in Greedy Submodular Maximization. , 2018, , .		3
223	Finite Horizon Maximum Likelihood Estimation for Integrated Navigation with RF Beacon Measurements. Asian Journal of Control, 2019, 21, 1470-1482.	3.0	3
224	Sensitivity Analysis for Linear Systems based on Reachability Sets. , 2019, , .		3
225	A nonlinear switched control strategy for permanent magnet synchronous machines. , 2019, , .		3
226	Optimization-based Estimation of Expected Values with Application to Stochastic Programming. , 2019, , .		3
227	Hysteresis-based switching control of stochastic linear systems. , 2003, , .		3
228	$$\mathtt {Tenscalc}$$: a toolbox to generate fast code to solve nonlinear constrained minimizations and compute Nash equilibria. Mathematical Programming Computation, 0, , 1.	4.8	3
229	State Estimation of Continuous-Time Systems with Implicit Outputs from Discrete Noisy Time-Delayed Measurements. , 2006, , .		2
230	Noise suppression in auto-regulatory gene networks. , 2008, , .		2
231	Trackability filtering for underactuated systems. , 2008, , .		2
232	Hide-and-Seek with Directional Sensing*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9343-9348.	0.4	2
233	Bio-inspired UAV routing, source localization, and acoustic signature classification for persistent surveillance. Proceedings of SPIE, 2011, , .	0.8	2
234	Linear quadratic control for sampled-data systems with stochastic delays. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
235	An Algebraic Geometry Approach to Compute Strategically Equivalent Bimatrix Games * *This work is partially supported by the U.S. Army Research Laboratory and the U.S. Office of Naval Research under MURI grant No. N00014-16-1-2710. IFAC-PapersOnLine, 2017, 50, 6116-6121.	0.9	2
236	On the Information in Spike Timing: Neural Codes Derived from Polychronous Groups. , 2018, , .		2
237	Sensor-Reveal Games. , 2019, , .		2
238	Fast Desynchronization Algorithms for Decentralized Medium Access Control Based on Iterative Linear Equation Solvers. IEEE Transactions on Automatic Control, 2022, 67, 6219-6226.	5.7	2
239	<title>Toward the supervisory control of families of nonlinear regulators</title>. , 1996, 2715, 87.		1
240	Heterogeneous sensor networks: a bio-inspired overlay architecture. Proceedings of SPIE, 2009, , .	0.8	1
241	Infinite horizon linear quadratic gene regulation in fluctuating environments. , 2012, , .		1
242	On topological entropy of switched linear systems with pairwise commuting matrices. , 2018, , .		1
243	Veinâ€toâ€brain: Simultaneous, secondsâ€resolved measurements of intracranial and intravenous drug levels provide a highly timeâ€resolved picture of drug transport. FASEB Journal, 2021, 35, .	0.5	1
244	Topological entropy of switched nonlinear systems. , 2021, , .		1
245	On the Effectiveness of Proactive Path-Diversity Based Routing for Robustness to Path Failures. Lecture Notes in Computer Science, 2008, , 574-585.	1.3	1
246	Stochastic Programming Using Expected Value Bounds. IEEE Transactions on Automatic Control, 2023, 68, 3241-3256.	5.7	1
247	Simulation and modeling for military air operations. , 2001, , .		0
248	Supervisory control of nonlinear systems. , 2007, , .		0
249	Computationally efficient methods for digital control. , 2008, , .		0
250	Multi-controller design under uncontrolled and controlled switching. , 2009, , .		0
251	GeoTrack: bio-inspired global video tracking by networks of unmanned aircraft systems. Proceedings of SPIE, 2009, , .	0.8	0
252	Metric Based Multi-Timescale Control for Reducing Power in Embedded Systems. , 2009, , .		0

#	Article	IF	Citations
253	Heterogeneous sensor networks: a bio-inspired overlay architecture. , 2010, , .		0
254	Locating binary features for keypoint recognition using noncooperative games. , 2012, , .		0
255	Robust stability under asynchronous sensing and control. , 2016, , .		0
256	A Robust State Estimator for Multi-Agent Systems Under Impulsive Noise and Missing Measurements. , 2019, , .		0
257	Networked Control Systems: Estimation and Control over Lossy Networks. , 2021, , 1430-1436.		0
258	Stochastic Description of Biochemical Networks. , 2021, , 2160-2164.		0
259	Robust Adaptive Control: Where are we? Where should we go?. , 2007, , .		0
260	The Impact of Measurement Passing in Sensor Network Measurement Selection. IEEE Transactions on Control of Network Systems, 2023, 10, 112-123.	3.7	0