

Chaouki Abdallah

List of Publications by Year in descending order

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86
papers

2,926
citations

430754

18
h-index

233338

45
g-index

88
all docs

88
docs citations

88
times ranked

1787
citing authors

#	ARTICLE	IF	CITATIONS
1	Static output feedback – A survey. Automatica, 1997, 33, 125-137.	3.0	874
2	Stability and Stabilization of Systems with Time Delay. IEEE Control Systems, 2011, 31, 38-65.	1.0	489
3	A dynamic recurrent neural-network-based adaptive observer for a class of nonlinear systems. Automatica, 1997, 33, 1539-1543.	3.0	210
4	Control of rigid-link, flexible-joint robots: a survey of backstepping approaches. Journal of Field Robotics, 1995, 12, 199-216.	0.7	89
5	Wireless communications and networking: an overview. IEEE Antennas and Propagation Magazine, 2002, 44, 185-193.	1.2	85
6	Robust Multi-Objective Feedback Design by Quantifier Elimination. Journal of Symbolic Computation, 1997, 24, 153-159.	0.5	67
7	Distributed power control in CDMA cellular systems. IEEE Antennas and Propagation Magazine, 2000, 42, 152-159.	1.2	66
8	Robust non-fragile LQ controllers: The static state feedback case. International Journal of Control, 2000, 73, 159-165.	1.2	55
9	Improved sample complexity estimates for statistical learning control of uncertain systems. IEEE Transactions on Automatic Control, 2000, 45, 2383-2388.	3.6	52
10	Distributed Joint Rate and Power Control Game-Theoretic Algorithms for Wireless Data. IEEE Communications Letters, 2004, 8, 511-513.	2.5	52
11	Complex Networked Control Systems: Introduction to the Special Section. IEEE Control Systems, 2007, 27, 30-32.	1.0	52
12	Necessary and sufficient conditions for finite-time stability of linear systems. , 0, , .		48
13	Optimal discrete-time control for non-linear cascade systems. Journal of the Franklin Institute, 1998, 335, 827-839.	1.9	41
14	The effect of time delays on the stability of load balancing algorithms for parallel computations. IEEE Transactions on Control Systems Technology, 2005, 13, 932-942.	3.2	35
15	Experimental implementation of flocking algorithms in wheeled mobile robots. , 0, , .		34
16	Design of a model reference adaptive controller for vehicle road following. Mathematical and Computer Modelling, 1995, 22, 343-354.	2.0	30
17	$H = \begin{bmatrix} \tilde{z} \\ z \end{bmatrix}$ filtering for discrete-time linear systems with bounded time-varying parameters. Signal Processing, 2010, 90, 282-291.	2.1	29
18	Experimental results in robust lateral control of highway vehicles. IEEE Control Systems, 1998, 18, 70-76.	1.0	27

#	ARTICLE	IF	CITATIONS
19	Linear time delay model for studying load balancing instabilities in parallel computations. International Journal of Systems Science, 2003, 34, 563-573.	3.7	26
20	Nonlinear observer design using dynamic recurrent neural networks. , 0, , .		25
21	Dynamic Time Delay Models for Load Balancing. Part I: Deterministic Models. Lecture Notes in Computational Science and Engineering, 2004, , 355-370.	0.1	23
22	Finite-time stability of discrete-time nonlinear systems: analysis and design. , 2004, , .		22
23	Bilateral Teleoperation of Mobile Robot over Delayed Communication Network: Implementation.. , 2006, , .		22
24	Some remarks on the delay stabilizing effect in SISO systems. , 0, , .		20
25	Stability and finite-time stability analysis of discrete-time nonlinear networked control systems. , 0, , .		19
26	Resource-Constrained Load Balancing Controller for a Parallel Database. IEEE Transactions on Control Systems Technology, 2008, 16, 834-840.	3.2	19
27	A BMI approach for $\hat{\alpha}_i$ gain scheduling of discrete time-varying systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1255-1268.	2.1	19
28	Employing Markov Networks on Curriculum Graphs to Predict Student Performance. , 2014, , .		19
29	Delay effects on static output feedback stabilization. , 0, , .		18
30	Network analysis of university courses. , 2014, , .		17
31	An adaptive coverage control algorithm for deployment of nonholonomic mobile sensors. , 2010, , .		16
32	The Complexity of University Curricula According to Course Cruciality. , 2014, , .		16
33	An Adaptive Coverage Control for Deployment of Nonholonomic Mobile Sensor Networks Over Time-varying Sensory Functions. Asian Journal of Control, 2013, 15, 988-1000.	1.9	15
34	The use of machine learning in smart antennas. , 2004, , .		14
35	Model-based networked control for nonlinear systems with stochastic packet dropout. , 0, , .		14
36	Reducing Redundancies in Reconfigurable Antenna Structures Using Graph Models. IEEE Transactions on Antennas and Propagation, 2011, 59, 793-801.	3.1	13

#	ARTICLE	IF	CITATIONS
37	Statistical learning methods in linear algebra and control problems: the example of finite-time control of uncertain linear systems. <i>Linear Algebra and Its Applications</i> , 2002, 351-352, 11-26.	0.4	11
38	A hybrid framework for resource allocation among multiple agents moving on discrete environments. <i>Asian Journal of Control</i> , 2008, 10, 171-186.	1.9	11
39	Optimization and Complexity Reduction of Switch-Reconfigured Antennas Using Graph Models. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 1072-1075.	2.4	11
40	Delay Effects on Output Feedback Control of Dynamical Systems. <i>Understanding Complex Systems</i> , 2009, , 63-84.	0.3	11
41	A Survey of Engineering Education Outside the United States: Implications for the Ideal Engineering Program. <i>Journal of Engineering Education</i> , 1993, 82, 212-215.	1.9	10
42	New sufficient conditions for strong simultaneous stabilization. <i>Automatica</i> , 1997, 33, 1193-1196.	3.0	10
43	Robust stability of time delay systems: theory. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001, 34, 101-106.	0.4	10
44	Statistical learning control of uncertain systems: theory and algorithms. <i>Applied Mathematics and Computation</i> , 2001, 120, 31-43.	1.4	10
45	Finite Time Stability Design via Feedback Linearization. , 0, , .		10
46	Characterizing the Complexity of Curricular Patterns in Engineering Programs. , 0, , .		10
47	Load balancing instabilities due to time delays in parallel computations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001, 34, 175-179.	0.4	9
48	Practical issues in networked control systems. , 2006, , .		9
49	INFORMATION SURFING FOR RADIATION MAP BUILDING. <i>International Journal of Robotics and Automation</i> , 2011, 26, .	0.1	9
50	Toward "smart tubes" using iterative learning control. <i>IEEE Transactions on Plasma Science</i> , 1998, 26, 905-911.	0.6	7
51	Least squares support vector machines for direction of arrival estimation with error control and validation. , 0, , .		7
52	Finite abstractions for hybrid systems with stable continuous dynamics. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2012, 22, 83-99.	0.6	7
53	The Impact of Course Enrollment Sequences on Student Success. , 2016, , .		7
54	An Automated Framework to Recommend A Suitable Academic Program, Course and Instructor. , 2019, , .		7

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55	Controlling across complex networks – Emerging links between networks and control. Annual Reviews in Control, 2008, 32, 183-192.	4.4	6
56	Mathematical controllability of genomic networks. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17243-17244.	3.3	6
57	Curricular Efficiency: What Role Does It Play in Student Success?. , 0, , .		6
58	Probabilistic Optimization of Resource Distribution and Encryption for Data Storage in the Cloud. IEEE Transactions on Cloud Computing, 2018, 6, 428-439.	3.1	6
59	The recursive neural network and its applications in control theory. Computers and Electrical Engineering, 1993, 19, 333-341.	3.0	5
60	A neural-network model of the input/output characteristics of a high-power backward wave oscillator. IEEE Transactions on Plasma Science, 1996, 24, 879-883.	0.6	5
61	A unification between nonlinear-nonquadratic optimal control and integrator backstepping. International Journal of Robust and Nonlinear Control, 1998, 8, 879-906.	2.1	5
62	Statistical Learning for Optimal Control of Hybrid Systems. Proceedings of the American Control Conference, 2007, , .	0.0	4
63	Quantified inequalities and robust control. , 1999, , 373-390.		3
64	<title>Power control algorithms in wireless communications</title>. , 2002, , .		3
65	Finite-Time Stability for Nonlinear Networked Control Systems. , 2006, , 535-553.		3
66	H-SIP Inter-Domain SIP Mobility: Design. , 2007, , .		3
67	Impact of fading wireless channel on the performance of game theoretic power control algorithms for CDMA wireless data. , 2008, , .		3
68	H ∞ gain scheduling for discrete-time systems with control delays and time-varying parameters: a BMI approach. , 2008, , .		3
69	Guaranteed-cost control of polynomial nonlinear systems. , 0, , .		2
70	Stability of Communications Networks in the Presence of Delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 171-174.	0.4	2
71	Time delay and power control in spread spectrum wireless networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 159-164.	0.4	2
72	Least squares support vector machines for fixed-step and fixed-set CDMA power control. , 0, , .		2

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73	Modeling multi-agent systems with hybrid interacting dynamics. , 2009, , .		2
74	Provisioning Security and Performance Optimization for Dynamic Cloud Environments. , 2014, , .		2
75	Technology education challenges and solutions in Latin America. IEEE Transactions on Education, 2001, 44, 6 pp..	2.0	1
76	Effects of quantization, saturation, and sampling time in multi output systems. , 2004, , .		1
77	Discussion on: "Practical Stability of Time-Delay Systems: LMI's Approach". European Journal of Control, 2011, 17, 139-142.	1.6	1
78	High Order Recursive Neural Networks. , 1991, , .		1
79	A learning algorithm for applying synthesized stable dynamics to system identification. Neural Networks, 1998, 11, 81-87.	3.3	0
80	Applications of Statistical-Learning Methods in Systems and Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 175-180.	0.4	0
81	Real-time streaming over an IEEE 802.11b based wireless LAN test bed. , 0, , .		0
82	Bounded controller design of an ABR explicit rate algorithm for ATM switches. , 0, , .		0
83	Saturated Controller Design of an ABR Explicit Rate Algorithm for ATM Switches. Lecture Notes in Control and Information Sciences, 0, , 159-176.	0.6	0
84	Game Theoretic Distributed Power Control Algorithms for Uplink Wireless Data in Flat Fading Channels. International Journal of Computers, Communications and Control, 2015, 10, 520.	1.2	0
85	The Diversity Programs' Graduate Bridge Program. , 0, , .		0
86	Online Student Support Services for STEM Courses in New Mexico: A Cross-Institutional Approach. , 0, , .		0