

Franco Blanchini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4363478/publications.pdf>

Version: 2024-02-01

243
papers

8,983
citations

109321

35
h-index

48315

88
g-index

252
all docs

252
docs citations

252
times ranked

5277
citing authors

#	ARTICLE	IF	CITATIONS
1	Set invariance in control. <i>Automatica</i> , 1999, 35, 1747-1767.	5.0	1,857
2	Modelling the COVID-19 epidemic and implementation of population-wide interventions in Italy. <i>Nature Medicine</i> , 2020, 26, 855-860.	30.7	1,373
3	Set-Theoretic Methods in Control. <i>Systems and Control: Foundations and Applications</i> , 2008, , .	0.3	784
4	Ultimate boundedness control for uncertain discrete-time systems via set-induced Lyapunov functions. <i>IEEE Transactions on Automatic Control</i> , 1994, 39, 428-433.	5.7	347
5	Nonquadratic Lyapunov functions for robust control. <i>Automatica</i> , 1995, 31, 451-461.	5.0	319
6	Discrete-time control for switched positive systems with application to mitigating viral escape. <i>International Journal of Robust and Nonlinear Control</i> , 2011, 21, 1093-1111.	3.7	309
7	Modeling vaccination rollouts, SARS-CoV-2 variants and the requirement for non-pharmaceutical interventions in Italy. <i>Nature Medicine</i> , 2021, 27, 993-998.	30.7	161
8	Feedback control for linear time-invariant systems with state and control bounds in the presence of disturbances. <i>IEEE Transactions on Automatic Control</i> , 1990, 35, 1231-1234.	5.7	158
9	Set-Theoretic Methods in Control. <i>Systems and Control: Foundations and Applications</i> , 2015, , .	0.3	158
10	Co-Positive Lyapunov Functions for the Stabilization of Positive Switched Systems. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 3038-3050.	5.7	132
11	A new class of universal Lyapunov functions for the control of uncertain linear systems. <i>IEEE Transactions on Automatic Control</i> , 1999, 44, 641-647.	5.7	113
12	A Separation Principle for Linear Switching Systems and Parametrization of All Stabilizing Controllers. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 279-292.	5.7	113
13	Switched Positive Linear Systems. <i>Foundations and Trends in Systems and Control</i> , 2015, 2, 101-273.	7.5	104
14	The gain scheduling and the robust state feedback stabilization problems. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 2061-2070.	5.7	80
15	Convexity of the cost functional in an optimal control problem for a class of positive switched systems. <i>Automatica</i> , 2014, 50, 1227-1234.	5.0	79
16	Stabilizability of switched linear systems does not imply the existence of convex Lyapunov functions. <i>Automatica</i> , 2008, 44, 1166-1170.	5.0	75
17	Stabilization of LPV Systems: State Feedback, State Estimation, and Duality. <i>SIAM Journal on Control and Optimization</i> , 2003, 42, 76-97.	2.1	71
18	Constrained control for uncertain linear systems. <i>Journal of Optimization Theory and Applications</i> , 1991, 71, 465-484.	1.5	70

#	ARTICLE	IF	CITATIONS
19	Piecewise-linear Lyapunov functions for structural stability of biochemical networks. <i>Automatica</i> , 2014, 50, 2482-2493.	5.0	70
20	Persistent disturbance rejection via static-state feedback. <i>IEEE Transactions on Automatic Control</i> , 1995, 40, 1127-1131.	5.7	69
21	Structurally robust biological networks. <i>BMC Systems Biology</i> , 2011, 5, 74.	3.0	67
22	Non-conservative matrix inequality conditions for stability/stabilizability of linear differential inclusions. <i>Automatica</i> , 2010, 46, 190-196.	5.0	66
23	Any Domain of Attraction for a Linear Constrained System is a Tracking Domain of Attraction. <i>SIAM Journal on Control and Optimization</i> , 2000, 38, 971-994.	2.1	60
24	Control of production-distribution systems with unknown inputs and system failures. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 1072-1081.	5.7	57
25	Constrained stabilization of continuous-time linear systems. <i>Systems and Control Letters</i> , 1996, 28, 95-102.	2.3	56
26	Stability results for linear parameter varying and switching systems. <i>Automatica</i> , 2007, 43, 1817-1823.	5.0	56
27	Stable LPV Realization of Parametric Transfer Functions and Its Application to Gain-Scheduling Control Design. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 2271-2281.	5.7	56
28	Robust rate control for integrated services packet networks. <i>IEEE/ACM Transactions on Networking</i> , 2002, 10, 644-652.	3.8	54
29	Characterization of PID and Lead/Lag Compensators Satisfying Given H_{∞} Specifications. <i>IEEE Transactions on Automatic Control</i> , 2004, 49, 736-740.	5.7	52
30	Least inventory control of multistorage systems with non-stochastic unknown inputs. <i>IEEE Transactions on Automation Science and Engineering</i> , 1997, 13, 633-645.	2.3	47
31	A Structural Classification of Candidate Oscillatory and Multistationary Biochemical Systems. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 2542-2569.	1.9	46
32	Rational $\hat{a}, \sup 1/$ suboptimal compensators for continuous-time systems. <i>IEEE Transactions on Automatic Control</i> , 1994, 39, 1487-1492.	5.7	45
33	A Network Design Problem for a Distribution System with Uncertain Demands. <i>SIAM Journal on Optimization</i> , 1997, 7, 560-578.	2.0	45
34	Modal and transition dwell time computation in switching systems: A set-theoretic approach. <i>Automatica</i> , 2010, 46, 1477-1482.	5.0	43
35	Molecular Titration Promotes Oscillations and Bistability in Minimal Network Models with Monomeric Regulators. <i>ACS Synthetic Biology</i> , 2016, 5, 321-333.	3.8	40
36	Control synthesis for discrete time systems with control and state bounds in the presence of disturbances. <i>Journal of Optimization Theory and Applications</i> , 1990, 65, 29-40.	1.5	39

#	ARTICLE	IF	CITATIONS
37	Computing the structural influence matrix for biological systems. <i>Journal of Mathematical Biology</i> , 2016, 72, 1927-1958.	1.9	38
38	On the transient estimate for linear systems with time-varying uncertain parameters. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1996, 43, 592-596.	0.1	37
39	Feedback control of production-distribution systems with unknown demand and delays. <i>IEEE Transactions on Automation Science and Engineering</i> , 2000, 16, 313-317.	2.3	35
40	Adaptive control of compressor surge instability. <i>Automatica</i> , 2002, 38, 1373-1380.	5.0	34
41	Extensive study on the control of centrifugal compressor surge. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2006, 220, 289-304.	1.4	34
42	Stabilization of negative capacitance in ferroelectric capacitors with and without a metal interlayer. <i>Nanoscale</i> , 2020, 12, 6121-6129.	5.6	34
43	Minimum-time control for uncertain discrete-time linear systems. , 0, , .		33
44	Plate with decentralised velocity feedback loops: Power absorption and kinetic energy considerations. <i>Journal of Sound and Vibration</i> , 2012, 331, 1722-1741.	3.9	33
45	Constrained stabilization via smooth Lyapunov functions. <i>Systems and Control Letters</i> , 1998, 35, 155-163.	2.3	32
46	Robust state feedback control of LTV systems: nonlinear is better than linear. <i>IEEE Transactions on Automatic Control</i> , 1999, 44, 802-807.	5.7	32
47	Robust control strategies for multi-“inventory systems with average flow constraints. <i>Automatica</i> , 2006, 42, 1255-1266.	5.0	32
48	Network-Decentralized Control Strategies for Stabilization. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 491-496.	5.7	31
49	Constrained stabilization with an assigned initial condition set. <i>International Journal of Control</i> , 1995, 62, 601-617.	1.9	30
50	A convex optimization approach to fixed-order controller design for disturbance rejection in SISO systems. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 784-789.	5.7	30
51	Active Fault Isolation: A Duality-Based Approach via Convex Programming. <i>SIAM Journal on Control and Optimization</i> , 2017, 55, 1619-1640.	2.1	29
52	Polyhedral Lyapunov functions structurally ensure global asymptotic stability of dynamical networks iff the Jacobian is non-singular. <i>Automatica</i> , 2017, 86, 183-191.	5.0	29
53	Biometric Palmprint Verification: A Dynamical System Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 2676-2687.	9.3	29
54	Relatively optimal control and its linear implementation. <i>IEEE Transactions on Automatic Control</i> , 2003, 48, 2151-2162.	5.7	28

#	ARTICLE	IF	CITATIONS
55	Robust performance with fixed and worst-case signals for uncertain time-varying systems. Automatica, 1997, 33, 2183-2189.	5.0	26
56	Control of manipulators in a constrained workspace by means of linked invariant sets. International Journal of Robust and Nonlinear Control, 2004, 14, 1185-1205.	3.7	24
57	Ultimate boundedness control for uncertain discrete-time systems via set-induced Lyapunov functions. , 0, , .		23
58	Control-Sharing and Merging Control Lyapunov Functions. IEEE Transactions on Automatic Control, 2014, 59, 107-119.	5.7	23
59	The joint network/control design of platooning algorithms can enforce guaranteed safety constraints. Ad Hoc Networks, 2019, 94, 101962.	5.5	23
60	A Razumikhin-type lemma for functional differential equations with application to adaptive control. Automatica, 1999, 35, 809-818.	5.0	22
61	Guide on set invariance for delay difference equations. Annual Reviews in Control, 2016, 41, 13-23.	7.9	22
62	A Convex Optimization Approach to Synthesizing Bounded Complexity ℓ_1 Filters. IEEE Transactions on Automatic Control, 2012, 57, 216-221.	5.7	21
63	Optimization of Long-Run Average-Flow Cost in Networks With Time-Varying Unknown Demand. IEEE Transactions on Automatic Control, 2010, 55, 20-31.	5.7	20
64	Constant and switching gains in semi-active damping of vibrating structures. International Journal of Control, 2012, 85, 1886-1897.	1.9	20
65	Compartmental flow control: Decentralization, robustness and optimality. Automatica, 2016, 64, 18-28.	5.0	20
66	The linear saturated decentralized strategy for constrained flow control is asymptotically optimal. Automatica, 2013, 49, 2206-2212.	5.0	19
67	Aggregates of Monotonic Step Response Systems: A Structural Classification. IEEE Transactions on Control of Network Systems, 2018, 5, 782-792.	3.7	18
68	Vertex/plane characterization of the dwell-time property for switching linear systems. , 2010, , .		17
69	Constrained control for perturbed linear systems. , 1990, , .		15
70	A new class of universal Lyapunov functions for the control of uncertain linear systems. , 0, , .		15
71	Relatively Optimal Control With Characteristic Polynomial Assignment and Output Feedback. IEEE Transactions on Automatic Control, 2006, 51, 183-191.	5.7	15
72	Determining the structural properties of a class of biological models. , 2012, , .		15

#	ARTICLE	IF	CITATIONS
73	The Smallest Eigenvalue of the Generalized Laplacian Matrix, with Application to Network-Decentralized Estimation for Homogeneous Systems. IEEE Transactions on Network Science and Engineering, 2016, 3, 312-324.	6.4	15
74	Model-Free Plant Tuning. IEEE Transactions on Automatic Control, 2017, 62, 2623-2634.	5.7	15
75	Constrained Control for Systems with Unknown Disturbances. Control and Dynamic Systems, 1992, , 129-182.	0.1	15
76	Min-max control of uncertain multi-inventory systems with multiplicative uncertainties. IEEE Transactions on Automatic Control, 2001, 45, 955-960.	5.7	14
77	Experimental Evaluation of a High-Gain Control for Compressor Surge Suppression. Journal of Turbomachinery, 2002, 124, 27-35.	1.7	14
78	Structured-LMI conditions for stabilizing network-decentralized control. , 2013, , .		14
79	Structural conditions for oscillations and multistationarity in aggregate monotone systems. , 2015, , .		14
80	Homogeneous Time Constants Promote Oscillations in Negative Feedback Loops. ACS Synthetic Biology, 2018, 7, 1481-1487.	3.8	14
81	Piecewise-linear functions in robust control. , 1996, , 213-243.		13
82	Stabilizability of switched linear systems does not imply the existence of convex Lyapunov functions. , 2006, , .		13
83	Relatively Optimal Control: A Static Piecewise-Affine Solution. SIAM Journal on Control and Optimization, 2007, 46, 585-603.	2.1	13
84	Simultaneous performance achievement via compensator blending. Automatica, 2008, 44, 1-14.	5.0	13
85	A convex programming approach to the inverse kinematics problem for manipulators under constraints. European Journal of Control, 2017, 33, 11-23.	2.6	13
86	Guaranteed cost control for multi-inventory systems with uncertain demand. Automatica, 2004, 40, 213-223.	5.0	12
87	A Mixed Convex/Nonconvex Distributed Localization Approach for the Deployment of Indoor Positioning Services. IEEE Transactions on Mobile Computing, 2008, 7, 1325-1337.	5.8	12
88	Mal de Debarquement Syndrome: A Matter of Loops?. Frontiers in Neurology, 2020, 11, 576860.	2.4	12
89	Robust obstacle avoidance for constrained linear discrete time systems: A set-theoretic approach. , 2007, , .		11
90	Enhancing Controller Performance for Robot Positioning in a Constrained Environment. IEEE Transactions on Control Systems Technology, 2008, 16, 1066-1074.	5.2	11

#	ARTICLE	IF	CITATIONS
91	High-Gain Adaptive Control: A Derivative-Based Approach. IEEE Transactions on Automatic Control, 2009, 54, 2164-2169.	5.7	11
92	A Youla-KuÅera parameterization approach to output feedback relatively optimal control. Systems and Control Letters, 2015, 81, 14-23.	2.3	11
93	Robust constrained Model Predictive Control of fast electromechanical systems. Journal of the Franklin Institute, 2016, 353, 2087-2103.	3.4	11
94	Stability analysis of an artificial biomolecular oscillator with non-cooperative regulatory interactions. Journal of Biological Dynamics, 2017, 11, 102-120.	1.7	11
95	Asymmetric State Feedback for Linear Plants With Asymmetric Input Saturation. , 2020, 4, 608-613.		11
96	Design of a molecular clock with RNA-mediated regulation. , 2014, , .		10
97	Loop analysis of blood pressure/volume homeostasis. PLoS Computational Biology, 2019, 15, e1007346.	3.2	10
98	New canonical form for pole placement. IEE Proceedings D: Control Theory and Applications, 1989, 136, 314.	0.4	9
99	Further results on rational approximations of $\hat{a}, \sup 1/$ optimal controllers. IEEE Transactions on Automatic Control, 1995, 40, 552-557.	5.7	9
100	Computation of the minimum destabilizing volume for interval and affine families of polynomials. IEEE Transactions on Automatic Control, 1998, 43, 1159-1163.	5.7	9
101	A convex optimization approach to synthesizing bounded complexity $\&\#x221E;$ filters. , 2009, , .		9
102	A joint network/control design for cooperative automatic driving. , 2017, , .		9
103	Control-theoretic methods for biological networks. , 2018, , .		9
104	Acoustic Target Tracking Through a Cluster of Mobile Agents. IEEE Transactions on Cybernetics, 2021, 51, 2587-2600.	9.5	9
105	A feedback strategy for periodic network flows. Networks, 1996, 27, 25-34.	2.7	8
106	Continuous-time optimal control for switched positive systems with application to mitigating viral escape*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 266-271.	0.4	8
107	An LPV control scheme for induction motors. , 2012, , .		8
108	Set Invariance for Delay Difference Equations $\hat{a}^{\hat{a}}$ —The research leading to these results has benefited from the financial support of the European Union's 7th Framework Programme under EC-GA No. 607957 TEMPO \hat{a} “Training in Embedded Predictive Control and Optimization. The authors acknowledge also the support of the Franco-Italian collaborative research programme No. 30188PK Galileo 2014.. IFAC-PapersOnLine, 2015, 48, 215-220.	0.9	8

#	ARTICLE	IF	CITATIONS
109	Stable LPV realisation of the Smith predictor. International Journal of Systems Science, 2016, 47, 2393-2401.	5.5	8
110	A Bounded Complementary Sensitivity Function Ensures Topology-Independent Stability of Homogeneous Dynamical Networks. IEEE Transactions on Automatic Control, 2018, 63, 1140-1146.	5.7	8
111	Analysis of coupled genetic oscillators with delayed positive feedback interconnections. , 2019, , .		8
112	A multistationary loop model of ALS unveils critical molecular interactions involving mitochondria and glucose metabolism. PLoS ONE, 2020, 15, e0244234.	2.5	8
113	Discussion on: $\tilde{\mathcal{A}}, \tilde{\mathcal{B}}$ -Invariance Conditions of Polyhedral Domains for Continuous-Time Systems TM by C.E.T. D'Àrea and J.-C. Hennes. European Journal of Control, 1999, 5, 82-86.	2.6	7
114	Stabilization of multi-inventory systems with uncertain demand and setups. IEEE Transactions on Automation Science and Engineering, 2003, 19, 103-116.	2.3	7
115	Suboptimal receding horizon control for continuous-time systems. IEEE Transactions on Automatic Control, 2003, 48, 1081-1086.	5.7	7
116	Structural properties of the MAPK pathway topologies in PC12 cells. Journal of Mathematical Biology, 2013, 67, 1633-1668.	1.9	7
117	A convexity result for the optimal control of a class of positive nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1507-1512.	0.4	7
118	On the Convergence of Discrete-Time Linear Systems: A Linear Time-Varying Mann Iteration Converges IFF Its Operator Is Strictly Pseudocontractive. , 2018, 2, 453-458.		7
119	Checking Structural Stability of BDC-Decomposable Systems via Convex Optimisation. , 2020, 4, 205-210.		7
120	Structural analysis in biology: A control-theoretic approach. Automatica, 2021, 126, 109376.	5.0	7
121	Worst case $\ \sup \hat{z} \ $ to $\ \sup \hat{z} \ $ gain minimization: dynamic versus static state feedback. , 0, , .		7
122	The gain scheduling and the robust state feedback stabilization problems. , 0, , .		6
123	Robust control of production-distribution systems. , 2001, , 13-28.		6
124	Effective Information for Offline Stochastic Feedback and Optimal Control of Dynamic Systems. Journal of Optimization Theory and Applications, 2003, 116, 283-310.	1.5	6
125	RELATIVELY OPTIMAL CONTROL: THE STATIC SOLUTION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 676-681.	0.4	6
126	Switching Gains for Semiactive Damping via Nonconvex Lyapunov Functions. IEEE Transactions on Control Systems Technology, 2014, 22, 721-728.	5.2	6

#	ARTICLE	IF	CITATIONS
127	Inverse kinematics by means of convex programming: Some developments. , 2015, , .		6
128	A dynamic algorithm for palmprint recognition. , 2015, , .		6
129	Optimal control of a class of positive Markovian bilinear systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2016, 21, 155-170.	3.5	6
130	Switching and sweeping vibration absorbers: Theory and experimental validation. <i>Automatica</i> , 2018, 93, 290-301.	5.0	6
131	Network-decentralised optimisation and control: An explicit saturated solution. <i>Automatica</i> , 2019, 103, 379-389.	5.0	6
132	A Dynamic Biometric Authentication Algorithm for Near-Infrared Palm Vascular Patterns. <i>IEEE Access</i> , 2020, 8, 118978-118988.	4.2	6
133	A dynamic game model for distribution problems with non-stochastic uncertainty. <i>International Journal of Production Economics</i> , 1996, 45, 479-487.	8.9	5
134	Relatively Optimal Control for Continuous-Time Systems. , 2006, , .		5
135	Dynamic augmentation and complexity reduction of set-based constrained control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 14324-14329.	0.4	5
136	Average Flow Constraints and Stabilizability in Uncertain Production-Distribution Systems. <i>Journal of Optimization Theory and Applications</i> , 2010, 144, 12-28.	1.5	5
137	Switched control of fluid networks. <i>Transactions of the Institute of Measurement and Control</i> , 2010, 32, 582-602.	1.7	5
138	Dynamic optimization algorithms to mitigate HIV escape. , 2010, , .		5
139	Adaptive plasma current control in RFX-mod. <i>Fusion Engineering and Design</i> , 2011, 86, 1005-1008.	1.9	5
140	Is stabilization of switched positive linear systems equivalent to the existence of an Hurwitz convex combination of the system matrices?. , 2011, , .		5
141	Polyhedral Lyapunov functions for structural stability of biochemical systems in concentration and reaction coordinates. , 2015, , .		5
142	Revised analysis of negative capacitance in ferroelectric-insulator capacitors: analytical and numerical results, physical insight, comparison to experiments. , 2019, , .		5
143	<i>BDC</i> -Decomposition for Global Influence Analysis. , 2019, 3, 260-265.		5
144	Switching and switched systems. <i>Systems and Control: Foundations and Applications</i> , 2015, , 405-466.	0.3	5

#	ARTICLE	IF	CITATIONS
145	An improved safety device for electric chainsaws. Contemporary Engineering Sciences, 0, 8, 1229-1244.	0.2	5
146	Controllability analysis and eigenvalue assignment for generalized state-space systems. Systems and Control Letters, 1990, 15, 285-293.	2.3	4
147	Gain scheduling versus robust control of LPV systems: The output feedback case. , 2010, , .		4
148	On optimal damping of vibrating structures. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10268-10273.	0.4	4
149	Control-based p-persistent adaptive communication protocol. ACM Transactions on Autonomous and Adaptive Systems, 2012, 7, 1-18.	0.8	4
150	A threshold mechanism ensures minimum-path flow in lightning discharge. Scientific Reports, 2021, 11, 280.	3.3	4
151	Computation of the transfer function for singular systems. International Journal of Systems Science, 1990, 21, 407-414.	5.5	3
152	Robust control of constrained systems via convex optimization. International Journal of Robust and Nonlinear Control, 1995, 5, 441-460.	3.7	3
153	A minimum-time control strategy for torque tracking in permanent magnet AC motor drives. Automatica, 2007, 43, 505-512.	5.0	3
154	A separation principle for linear switching systems and parametrization of all stabilizing controllers. , 2008, , .		3
155	Natural frequency intervals for vibrating systems with polytopic uncertainty. Journal of Sound and Vibration, 2010, 329, 944-959.	3.9	3
156	A decentralized solution for the constrained minimum cost flow. , 2010, , .		3
157	A universal class of non-homogeneous control Lyapunov functions for linear differential inclusions. , 2013, , .		3
158	Plant tuning: A robust Lyapunov approach. , 2015, , .		3
159	A switched system approach to dynamic race modelling. Nonlinear Analysis: Hybrid Systems, 2016, 21, 37-48.	3.5	3
160	Flow-Inducing Networks. , 2017, 1, 44-49.		3
161	A network-decentralised strategy for shortest-path-flow routing. , 2019, , .		3
162	Editorial to the Special Issue of L-CSS on Control and Network Theory for Biological Systems. , 2019, 3, 228-229.		3

#	ARTICLE	IF	CITATIONS
163	Structural Analysis of Biological Networks. , 2014, , 47-71.		3
164	Thalamocortical bistable switch as a theoretical model of fibromyalgia pathogenesis inferred from a literature survey. Journal of Computational Neuroscience, 2022, 50, 471-484.	1.0	3
165	Control of production-distribution systems with unknown inputs and system failures. , 0, , .		2
166	Suboptimal receding horizon control for continuous-time systems. , 0, , .		2
167	STABILITY RESULTS FOR CONTINUOUS AND DISCRETE TIME LINEAR PARAMETER VARYING SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 227-232.	0.4	2
168	Polyhedral functions, composite quadratic functions, and equivalent conditions for stability/stabilization. , 2008, , .		2
169	Stable LPV realization of parametric transfer functions and its application to gain-scheduling control design. , 2009, , .		2
170	Control-based p-persistent adaptive communication protocol. , 2010, , .		2
171	A novel algorithm for dynamic admission control of elastic flows. , 2011, , .		2
172	Bounded complexity \mathcal{H}_∞ filters for switched systems. , 2011, , .		2
173	A stabilizable switched linear system does not necessarily admit a smooth homogeneous Lyapunov function. , 2013, , .		2
174	A Wii-controlled safety device for electric chainsaws. Journal of Agricultural Engineering, 2013, 44, .	1.5	2
175	Structural Stability of Biochemical Networks: Quadratic vs. Polyhedral Lyapunov Functions. IFAC-PapersOnLine, 2015, 48, 278-283.	0.9	2
176	Properties of switching-dynamics race models. , 2015, , .		2
177	On the LPV Control Design and Its Applications to Some Classes of Dynamical Systems. Lecture Notes in Control and Information Sciences, 2015, , 319-338.	1.0	2
178	A Robust Decentralized Control for Channel Sharing Communication. IEEE Transactions on Control of Network Systems, 2017, 4, 336-346.	3.7	2
179	Topology-Independent Robust Stability of Homogeneous Dynamic Networks * *G.G. acknowledges support from the Swedish Research Council through the LCCC Linnaeus Center and the eLLIIT Excellence Center at Lund University.. IFAC-PapersOnLine, 2017, 50, 1736-1741.	0.9	2
180	Uncertain Systems: Time-Varying Versus Time-Invariant Uncertainties. Systems and Control: Foundations and Applications, 2018, , 3-91.	0.3	2

#	ARTICLE	IF	CITATIONS
181	Dual Chemical Reaction Networks and Implications for Lyapunov-Based Structural Stability. , 2022, 6, 488-493.		2
182	Parametric Gain-scheduling Control via LPV-stable Realization. , 2012, , 61-89.		2
183	Control with time-domain constraints. Systems and Control: Foundations and Applications, 2015, , 337-404.	0.3	2
184	Predicting adaptation for uncertain systems with robust real plots. , 2020, , .		2
185	Generalized epidemiological compartmental models: guaranteed bounds via optimal control. , 2021, , .		2
186	Matrix bidiagonal form. International Journal of Control, 1989, 50, 699-705.	1.9	1
187	Polyhedral Set Constrained Control for Discrete-Time Systems with Unknown Additive Disturbances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1991, 24, 95-100.	0.4	1
188	Nonlinear controllers for the constrained stabilization of uncertain dynamic systems. , 1997, , 97-117.		1
189	Feedback control of production-distribution systems with unknown demand and delays. , 0, , .		1
190	Enhancing controller performance for robot positioning in a constrained environment. , 2004, , .		1
191	Polyhedral lyapunov functions computation for robust and gain scheduled design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 835-840.	0.4	1
192	Robust Control Strategies for Multi-Inventory Systems with Average Flow Constraints. , 2006, , 77-82.		1
193	Controlling systems via set-theoretic methods: some perspectives. , 2006, , .		1
194	Average flow constraints and stabilizability in uncertain production-distribution systems. Proceedings of the American Control Conference, 2007, , .	0.0	1
195	High-gain adaptive control: A derivative-based approach. , 2008, , .		1
196	Modal and transition dwell time computation in switching systems: a set-theoretic approach. , 2009, , .		1
197	Parametrization of all stabilizing compensators for absorbable nonlinear systems. , 2010, , .		1
198	Robust Stability and Performance of a p-Persistent Communication Protocol. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13251-13256.	0.4	1

#	ARTICLE	IF	CITATIONS
199	Multistability and robustness of the MAPK pathway. , 2011, , .		1
200	Analysis of a negative feedback biochemical oscillator. , 2012, , .		1
201	Disturbance-driven model predictive control by means of Youla parameter switching with an application to drainage canal control. International Journal of Robust and Nonlinear Control, 2012, 22, 1362-1375.	3.7	1
202	Fair and optimal dynamic admission control of elastic flows. Computer Networks, 2013, 57, 1277-1288.	5.1	1
203	Network-decentralized robust congestion control with node traffic splitting. , 2014, , .		1
204	Robust linear parameter-varying control of induction motors. International Journal of Robust and Nonlinear Control, 2015, 25, 1783-1800.	3.7	1
205	A saturated strategy robustly ensures stability of the cooperative equilibrium for Prisoner's dilemma. , 2016, , .		1
206	Discrete-Time Trials for Tuning without a Model * *G.G. acknowledges support from the Swedish Research Council through the LCCC Linnaeus Center and the eLLIIT Excellence Center at Lund University.. IFAC-PapersOnLine, 2017, 50, 1539-1544.	0.9	1
207	Fault Isolation for Large Scale Discrete-Time Systems Based on Implicit Set Representation. , 2018, , .		1
208	A Robust Saturated Strategy for n -Player Prisoner's Dilemma. SIAM Journal on Control and Optimization, 2018, 56, 3478-3498.	2.1	1
209	A switched model for mixed cooperative-competitive social dynamics. , 2019, , .		1
210	Convergence in uncertain linear systems. Automatica, 2020, 119, 109058.	5.0	1
211	Quadratic Constrained Periodic Optimization for Bandlimited Linear Systems Via the Fourier-Based Method. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	1.6	1
212	A feedback strategy for periodic network flows. Networks, 1996, 27, 25-34.	2.7	1
213	Set-theoretic analysis of dynamic systems. , 2008, , 191-234.		1
214	Control of parameter-varying systems. Systems and Control: Foundations and Applications, 2015, , 289-335.	0.3	1
215	Set Based Control Synthesis for State and Velocity Constrained Systems. , 2007, , 341-368.		1
216	Fair and Sparse Solutions in Network-Decentralized Flow Control. , 2022, 6, 2984-2989.		1

#	ARTICLE	IF	CITATIONS
217	Dynamic programming for robust control: Old ideas and recent developments. , 1999, , 391-407.		0
218	Numerical computation of polyhedral lyapunov functions for robust synthesis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 2065-2070.	0.4	0
219	GUARANTEED COST CONTROL FOR MULTI-INVENTORY SYSTEMS WITH UNCERTAIN DEMAND. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 13-18.	0.4	0
220	Characterization of standard controllers satisfying given H^{∞} specifications. , 0, , .		0
221	A MINIMUM-TIME CONTROL STRATEGY FOR TORQUE TRACKING IN PERMANENT MAGNET AC MOTOR DRIVES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 682-687.	0.4	0
222	ROBUST CONTROL STRATEGIES FOR MULTI-INVENTORY SYSTEMS WITH AVERAGE FLOW CONSTRAINTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 77-82.	0.4	0
223	Relatively optimal control: a static piecewise-affine solution. , 2007, , .		0
224	Mixed Convex/Non-Convex Distributed Localization Algorithm for the Deployment of Indoor Positioning Services. Proceedings of the American Control Conference, 2007, , .	0.0	0
225	Lyapunov and Lyapunov-like functions. , 2008, , 27-72.		0
226	Further results on merging control Lyapunov functions for linear differential inclusions. , 2013, , .		0
227	Structural Properties of Biological and Ecological Systems. , 2021, , 2217-2225.		0
228	Limits and Trade-Off in the Control of Compressor Surge. , 2002, , .		0
229	(Sub-)Optimal control. Systems and Control: Foundations and Applications, 2008, , 337-388.	0.3	0
230	Convex sets and their representation. Systems and Control: Foundations and Applications, 2008, , 73-97.	0.3	0
231	Control of parameter-varying systems. Systems and Control: Foundations and Applications, 2008, , 235-269.	0.3	0
232	Related topics. Systems and Control: Foundations and Applications, 2008, , 415-450.	0.3	0
233	POLYHEDRAL SET CONSTRAINED CONTROL FOR DISCRETE-TIME SYSTEMS WITH UNKNOWN ADDITIVE DISTURBANCES. , 1992, , 95-100.		0
234	Set-theoretic analysis of dynamic systems. Systems and Control: Foundations and Applications, 2015, , 235-287.	0.3	0

#	ARTICLE	IF	CITATIONS
235	Invariant sets. <i>Systems and Control: Foundations and Applications</i> , 2015, , 121-191.	0.3	0
236	(Sub-)Optimal Control. <i>Systems and Control: Foundations and Applications</i> , 2015, , 467-525.	0.3	0
237	Related topics. <i>Systems and Control: Foundations and Applications</i> , 2015, , 553-596.	0.3	0
238	Convex sets and their representation. <i>Systems and Control: Foundations and Applications</i> , 2015, , 93-119.	0.3	0
239	Lyapunov and Lyapunov-like functions. <i>Systems and Control: Foundations and Applications</i> , 2015, , 27-91.	0.3	0
240	Set-theoretic estimation. <i>Systems and Control: Foundations and Applications</i> , 2015, , 527-551.	0.3	0
241	Structural Properties of Biological and Ecological Systems. , 2020, , 1-9.		0
242	Set-theoretic estimation. , 2008, , 389-413.		0
243	Control with time-domain constraints. , 2008, , 271-335.		0