

Colaneri Patrizio

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148 papers	4,595 citations	32 h-index	65 g-index
163 ext. papers	5,774 ext. citations	4.6 avg, IF	6.23 L-index

#	Paper	IF	Citations
148	Modelling the COVID-19 epidemic and implementation of population-wide interventions in Italy. <i>Nature Medicine</i> , 2020 , 26, 855-860	50.5	845
147	Stability and Stabilization of Continuous-Time Switched Linear Systems. <i>SIAM Journal on Control and Optimization</i> , 2006 , 45, 1915-1930	1.9	341
146	Stability and stabilization of discrete time switched systems. <i>International Journal of Control</i> , 2006 , 79, 719-728	1.5	256
145	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	3.6	229
144	Dynamic Output Feedback Control of Switched Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 720-733	5.9	197
143	Stochastic stability of Positive Markov Jump Linear Systems. <i>Automatica</i> , 2014 , 50, 1181-1187	5.7	150
142	Markov Jump Linear Systems with switching transition rates: Mean square stability with dwell-time. <i>Automatica</i> , 2010 , 46, 1081-1088	5.7	140
141	Invariant representations of discrete-time periodic systems. <i>Automatica</i> , 2000 , 36, 1777-1793	5.7	120
140	Stabilization of continuous-time switched nonlinear systems. <i>Systems and Control Letters</i> , 2008 , 57, 95-103	5.7	114
139	A Nonconservative LMI Condition for Stability of Switched Systems With Guaranteed Dwell Time. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1297-1302	5.9	105
138	Robust stability of time varying polytopic systems. <i>Systems and Control Letters</i> , 2006 , 55, 81-85	2.4	104
137	. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 3038-3050	5.9	94
136	The Periodic Lyapunov Equation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 1988 , 9, 499-512	1.5	91
135	Stability and Stabilization of Semi-Markov Jump Linear Systems With Exponentially Modulated Periodic Distributions of Sojourn Time. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2870-2885	5.9	86
134	On almost sure stability of continuous-time Markov jump linear systems. <i>Automatica</i> , 2006 , 42, 983-988	5.7	71
133	Modeling vaccination rollouts, SARS-CoV-2 variants and the requirement for non-pharmaceutical interventions in Italy. <i>Nature Medicine</i> , 2021 , 27, 993-998	50.5	70
132	Switched Positive Linear Systems. <i>Foundations and Trends in Systems and Control</i> , 2015 , 2, 101-273	4	66

131	Almost Sure Stability of Markov Jump Linear Systems With Deterministic Switching. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 209-214	5.9	62
130	An MPC approach to the design of two-layer hierarchical control systems. <i>Automatica</i> , 2010 , 46, 823-831	5.7	58
129	The realization problem for linear periodic systems. <i>Automatica</i> , 1995 , 31, 775-779	5.7	56
128	Analysis of discrete-time linear periodic systems. <i>Control and Dynamic Systems</i> , 1996 , 78, 313-339		52
127	\mathcal{H}_∞ and Dwell Time Specifications of Continuous-Time Switched Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 207-212	5.9	51
126	Dwell Time Analysis of Deterministic and Stochastic Switched Systems. <i>European Journal of Control</i> , 2009 , 15, 228-248	2.5	51
125	Convexity of the cost functional in an optimal control problem for a class of positive switched systems. <i>Automatica</i> , 2014 , 50, 1227-1234	5.7	49
124	The extended periodic lyapunov lemma. <i>Automatica</i> , 1985 , 21, 603-605	5.7	45
123	Passivity of switched linear systems: Analysis and control design. <i>Systems and Control Letters</i> , 2012 , 61, 549-554	2.4	44
122	Almost Sure Stabilization of Uncertain Continuous-Time Markov Jump Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 195-201	5.9	41
121	An algebraic riccati equation for the discrete-time periodic prediction problem. <i>Systems and Control Letters</i> , 1990 , 14, 71-78	2.4	37
120	Semi-Markov Jump Linear Systems With Incomplete Sojourn and Transition Information: Analysis and Synthesis. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 159-174	5.9	36
119	Families of moment matching based, low order approximations for linear systems. <i>Systems and Control Letters</i> , 2014 , 64, 47-56	2.4	35
118	Dwell time analysis for continuous-time switched linear positive systems 2010 ,		34
117	Positive Markov Jump Linear Systems. <i>Foundations and Trends in Systems and Control</i> , 2015 , 2, 275-427	4	32
116	Optimal therapy scheduling for a simplified HIV infection model. <i>Automatica</i> , 2013 , 49, 2874-2880	5.7	30
115	Hierarchical model predictive control 2007 ,		28
114	Switching Strategies to Mitigate HIV Mutation. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1623-1628	4.8	27

113	Root mean square gain of discrete-time switched linear systems under dwell time constraints. <i>Automatica</i> , 2011 , 47, 1677-1684	5.7	25
112	Theory, algorithms and technology in the design of control systems. <i>Annual Reviews in Control</i> , 2006 , 30, 19-30	10.3	24
111	Stability analysis and stabilization of discrete-time non-homogeneous semi-Markov jump linear systems: A polytopic approach. <i>Automatica</i> , 2020 , 120, 109080	5.7	23
110	Decentralized optimal control of a car platoon with guaranteed string stability 2013 ,		22
109	Stabilization of continuous-time switched linear positive systems 2010 ,		22
108	Inertia theorems for the periodic Lyapunov difference equation and periodic Riccati difference equation. <i>Linear Algebra and Its Applications</i> , 1987 , 85, 249-265	0.9	22
107	Homogeneous Rational Lyapunov Functions for Performance Analysis of Switched Systems With Arbitrary Switching and Dwell Time Constraints. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5124-5137	5.9	21
106	Design of stabilizing strategies for discrete-time dual switching linear systems. <i>Automatica</i> , 2016 , 69, 93-100	5.7	21
105	The model matching problem for periodic discrete-time systems. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 1472-1476	5.9	20
104	Discrete-time linear periodic systems: A note on the reachability and controllability interval length. <i>Systems and Control Letters</i> , 1986 , 8, 75-78	2.4	19
103	Block-wise discretization accounting for structural constraints. <i>Automatica</i> , 2013 , 49, 3411-3417	5.7	18
102	Polynomial approach to the control of SISO periodic systems subject to input constraint. <i>Automatica</i> , 2003 , 39, 1417-1424	5.7	18
101	A -spectral factorization approach for H/spl infin/ estimation problems in discrete time. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 2108-2113	5.9	17
100	Algebraic Riccati Equation and J-Spectral Factorization for Hinfy Smoothing and Deconvolution. <i>SIAM Journal on Control and Optimization</i> , 2006 , 45, 123-145	1.9	16
99	H/sub /spl infin//-differential Riccati equations: convergence properties and finite escape phenomena. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 113-118	5.9	15
98	Algebraic Riccati equation and J-spectral factorization for estimation. <i>Systems and Control Letters</i> , 2004 , 51, 383-393	2.4	15
97	On discrete-time H/sub /spl infin// fixed-lag smoothing. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 132-141	4.8	15
96	A note on the existence of positive realizations. <i>Linear Algebra and Its Applications</i> , 2004 , 390, 329-343	0.9	13

95	Zero-error regulation of discrete-time linear periodic systems. <i>Systems and Control Letters</i> , 1990 , 15, 161-167	2.4	13
94	Opinion influence and evolution in social networks: A Markovian agents model. <i>Automatica</i> , 2019 , 100, 219-230	5.7	13
93	Optimal and MPC Switching Strategies for Mitigating Viral Mutation and Escape. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 14857-14862		12
92	Almost Sure Stability of Stochastic Linear Systems with Ergodic Parameters. <i>European Journal of Control</i> , 2008 , 14, 114-123	2.5	12
91	Theoretical aspects of continuous-time periodic systems. <i>Annual Reviews in Control</i> , 2005 , 29, 205-215	10.3	12
90	Stability and Stabilization of Discrete-Time Semi-Markov Jump Linear Systems via Semi-Markov Kernel Approach. <i>IEEE Transactions on Automatic Control</i> , 2015 , 1-1	5.9	11
89	Discrete-Time, Closed-Loop Aeromechanical Stability Analysis of Helicopters with Higher Harmonic Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2007 , 30, 1249-1260	2.1	11
88	A hamilton-jacobi setup for the static output feedback stabilization of nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 2038-2041	5.9	11
87	Adaptive robust stabilization of continuous casting. <i>Automatica</i> , 2012 , 48, 225-232	5.7	10
86	PadDiscretization for Linear Systems With Polyhedral Lyapunov Functions. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2717-2722	5.9	10
85	Vertex/plane characterization of the dwell-time property for switching linear systems 2010 ,		10
84	Guaranteed robustness bounds for matched-disturbance nonlinear systems. <i>Automatica</i> , 2008 , 44, 2230-2240	3.7	10
83	HRobustness of adaptive filters against measurement noise and parameter drift. <i>Automatica</i> , 1999 , 35, 1509-1520	5.7	10
82	On the design and synthesis of limit cycles using switching linear systems. <i>International Journal of Control</i> , 2010 , 83, 915-927	1.5	9
81	Simultaneous performance achievement via compensator blending. <i>Automatica</i> , 2008 , 44, 1-14	5.7	9
80	Braking Control in Railway Vehicles: A Distributed Preview Approach. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 189-195	5.9	8
79	Essentially negative news about positive systems. <i>Linear Algebra and Its Applications</i> , 2012 , 436, 3425-3442	4.2	8
78	Trading robustness with optimality in nonlinear control. <i>Automatica</i> , 2001 , 37, 1961-1969	5.7	8

77	Minimax control of Markov jump linear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016 , 30, 1152-1162	2.8	7
76	Closed-Loop Aeromechanical Stability of Hingeless Rotor Helicopters with Higher Harmonic Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 179-189	2.1	7
75	ROBUST MODEL PREDICTIVE CONTROL OF DISCRETE-TIME SWITCHED SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 208-212		7
74	Opinion Dynamics in Social Networks: The Effect of Centralized Interaction Tuning on Emerging Behaviors. <i>IEEE Transactions on Computational Social Systems</i> , 2020 , 7, 362-372	4.5	6
73	Stabilization via switching of positive Markov jump linear systems 2014 ,		6
72	Almost sure stability of Markov jump linear systems with dwell-time constrained switching dynamics 2011 ,		6
71	Differential linear matrix inequality in optimal sampled-data control. <i>Automatica</i> , 2019 , 100, 289-298	5.7	6
70	Switching Gains for Semiactive Damping via Nonconvex Lyapunov Functions. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 721-728	4.8	5
69	Dynamic optimization algorithms to mitigate HIV escape 2010 ,		5
68	Continuous-time optimal control for switched positive systems with application to mitigating viral escape*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 266-271		5
67	On the Role of Zeros in Rotorcraft Aeromechanics. <i>Journal of the American Helicopter Society</i> , 2004 , 49, 318-327	1.2	5
66	Hankel/Toeplitz matrices and the static output feedback stabilization problem. <i>Mathematics of Control, Signals, and Systems</i> , 2005 , 17, 231-268	1.3	5
65	Optimal Switching of 1-DOF Oscillating Systems. <i>Lecture Notes in Computer Science</i> , 2007 , 118-130	0.9	5
64	Shrinking horizon parametrized predictive control with application to energy-efficient train operation. <i>Automatica</i> , 2020 , 112, 108635	5.7	5
63	Mixed H ₂ /H _∞ Control for automated highway driving. <i>Mechatronics</i> , 2019 , 57, 63-72	3	5
62	Railway collaborative ecodrive via dissension based switching nonlinear model predictive control. <i>European Journal of Control</i> , 2019 , 50, 153-160	2.5	4
61	A Youla-Kučera parameterization approach to output feedback relatively optimal control. <i>Systems and Control Letters</i> , 2015 , 81, 14-23	2.4	4
60	Discretisation of sparse linear systems: An optimisation approach. <i>Systems and Control Letters</i> , 2015 , 80, 42-49	2.4	4

59	Switching and sweeping vibration absorbers: Theory and experimental validation. <i>Automatica</i> , 2018 , 93, 290-301	5.7	4
58	Design of stabilizing strategies for dual switching stochastic-deterministic linear systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 4080-4084		4
57	Static output feedback control of switched systems with dwell time constraints or arbitrary switching 2017 ,		4
56	Switched periodic systems in discrete time: stability and input/output norms. <i>International Journal of Control</i> , 2013 , 86, 1258-1268	1.5	4
55	Adaptive nonlinear control of braking in railway vehicles 2013 ,		4
54	Hand dwell time specifications of switched linear systems 2008 ,		4
53	Covariance bounds for discrete-time linear systems with time-varying parameter uncertainty. <i>International Journal of Control</i> , 1994 , 60, 1307-1317	1.5	4
52	Optimization based AIMD saturated algorithms for public charging of electric vehicles. <i>European Journal of Control</i> , 2019 , 47, 74-83	2.5	4
51	Checking Structural Stability of BDC-Decomposable Systems via Convex Optimisation 2020 , 4, 205-210		4
50	Optimal control of a class of positive Markovian bilinear systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2016 , 21, 155-170	4.5	3
49	Sub-optimal switching with dwell time constraints for control of viral mutation 2012 ,		3
48	Is stabilization of switched positive linear systems equivalent to the existence of an Hurwitz convex combination of the system matrices? 2011 ,		3
47	Mold level control of a continuous casting plant by switching control strategies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 1350-1355		3
46	Stabilization of discrete-time quantized linear systems: An H_1 approach 2008 ,		3
45	A factorization approach for the gain of discrete-time linear systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 1299-1304		3
44	Dynamic Output Feedback Stabilization of Continuous-Time Switched Systems 2006 , 347-352		3
43	Dwell time analysis of deterministic and stochastic switched systems 2009 ,		3
42	Structured Feedback Synthesis for Stability and Performance of Switched Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 4695-4709	5.9	3

41	On the Synthesis of Static Output Feedback Controllers for Guaranteed RMS Gain of Switched Systems with Arbitrary Switching 2018 ,		3
40	A convexity result for the optimal control of a class of positive nonlinear systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1507-1512		2
39	Mean stability and stabilization of positive linear systems subject to mode-dependent Poisson jumps. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2082-2087	0.7	2
38	Mean square stability of linear systems with Poisson jumps 2017 ,		2
37	A stabilizable switched linear system does not necessarily admit a smooth homogeneous Lyapunov function 2013 ,		2
36	Mean square stability of Markov Jump Linear Systems with piecewise constant transition rates under dwell-time specifications 2009 ,		2
35	A Note on Discretization of Sparse Linear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 97-102		2
34	RMS gain with dwell time for discrete-time switched linear systems 2008 ,		2
33	On Robust Almost Sure Stabilization of Continuous-Time Markov Jump Linear Systems 2006 ,		2
32	Almost sure stability of stochastic linear systems with ergodic parameters: an average contractivity criterion 2006 ,		2
31	GUARANTEED ROBUSTNESS BOUNDS FOR ACTUATOR DISTURBANCE NONLINEAR CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 393-398		2
30	ALMOST SURE STABILITY OF CONTINUOUS-TIME MARKOV JUMP LINEAR SYSTEMS: A RANDOMIZED APPROACH. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 7-12		2
29	On the H-two norm of switched systems via homogeneous rational Lyapunov functions 2016 ,		2
28	State-Feedback Control of Positive Switching Systems with Markovian Jumps. <i>Springer Optimization and Its Applications</i> , 2016 , 185-219	0.4	2
27	Stability and Stabilization for Markov Jump Linear Systems in Polyhedral Cones 2018 ,		2
26	Uncertain Systems: Time-Varying Versus Time-Invariant Uncertainties. <i>Systems and Control: Foundations and Applications</i> , 2018 , 3-91	0.3	2
25	A distributed braking control algorithm with preview action for railroad vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 7330-7335		1
24	Extensions of BadDiscretization for Linear Systems With Polyhedral Lyapunov FunctionsFor Generalized Jordan Structures. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2071-2076	5.9	1

23	Non-minimal factorization approach to the gain of discrete-time linear systems. <i>Automatica</i> , 2013 , 49, 2867-2873	5.7	1
22	On the interplay between periodic switches and uncontrolled jumps in linear discrete-time systems 2013 ,		1
21	On the discretisation of sparse linear systems 2014 ,		1
20	Analysis and control synthesis of continuous-time passive switched linear systems 2010 ,		1
19	Trends in Theory of Control System Design Status report prepared by the IFAC Coordinating Committee on Design Methods. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 2144-2155		1
18	Output-feedback stabilization of discrete-time switched systems. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	1
17	SWITCHING AND PERIODIC CONTROL OF THE BELGIAN CHOCOLATE SYSTEM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 149-153		1
16	COMPENSATOR BLENDING: A NEW TOOL FOR MULTI-OBJECTIVE DESIGN. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1-6		1
15	THEORY, ALGORITHMS AND TECHNOLOGY IN THE DESIGN OF CONTROL SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 130-140		1
14	From singular to nonsingular filtering of periodic systems: filling the gap with the spectral interactor matrix. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 222-227	5.9	1
13	Positive Systems: Discretization with Positivity and Constraints1-20		1
12	On the RMS gain of switched systems via homogeneous rational Lyapunov functions 2016 ,		1
11	Opinion Dynamics in Social Networks with Heterogeneous Markovian Agents 2018 ,		1
10	Efficient Train Operation via Shrinking Horizon Parametrized Predictive Control. <i>IFAC-PapersOnLine</i> , 2018 , 51, 203-208	0.7	1
9	Collaborative Eco-Drive of Railway Vehicles via Switched Nonlinear Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2018 , 51, 626-631	0.7	1
8	Integral Sliding-Mode Control With Internal Model: A Separation 2022 , 6, 446-451		1
7	Convergence in uncertain linear systems. <i>Automatica</i> , 2020 , 119, 109058	5.7	0
6	Minimum-time control of a class of nonlinear systems with partly unknown dynamics and constrained input. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 211-216		0

- 5 The Role of Asymptomatic Infections in the COVID-19 Epidemic via Complex Networks and Stability Analysis. *SIAM Journal on Control and Optimization*, S119-S144 1.9 0
- 4 Distributed Nonlinear AIMD Algorithms for Electric Bus Charging Plants. *Energies*, **2021**, 14, 4389 3.1 0
- 3 STABILIZATION OF DISCRETE-TIME SWITCHED SYSTEMS. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2006**, 39, 160-165
- 2 Stability, L1 performance and state feedback design for linear systems in ice-cream cones. *International Journal of Control*, **2021**, 94, 784-792 1.5
- 1 Periodic Control Systems **2018**, 1-16