

# Colaneri Patrizio

## List of Publications by Year in Descending Order

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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	Integral Sliding-Mode Control With Internal Model: A Separation <b>2022</b> , 6, 446-451		1
147	Modeling vaccination rollouts, SARS-CoV-2 variants and the requirement for non-pharmaceutical interventions in Italy. <i>Nature Medicine</i> , <b>2021</b> , 27, 993-998	50.5	70
146	Stability, L1 performance and state feedback design for linear systems in ice-cream cones. <i>International Journal of Control</i> , <b>2021</b> , 94, 784-792	1.5	
145	Distributed Nonlinear AIMD Algorithms for Electric Bus Charging Plants. <i>Energies</i> , <b>2021</b> , 14, 4389	3.1	0
144	Convergence in uncertain linear systems. <i>Automatica</i> , <b>2020</b> , 119, 109058	5.7	0
143	Opinion Dynamics in Social Networks: The Effect of Centralized Interaction Tuning on Emerging Behaviors. <i>IEEE Transactions on Computational Social Systems</i> , <b>2020</b> , 7, 362-372	4.5	6
142	Stability analysis and stabilization of discrete-time non-homogeneous semi-Markov jump linear systems: A polytopic approach. <i>Automatica</i> , <b>2020</b> , 120, 109080	5.7	23
141	Shrinking horizon parametrized predictive control with application to energy-efficient train operation. <i>Automatica</i> , <b>2020</b> , 112, 108635	5.7	5
140	Structured Feedback Synthesis for Stability and Performance of Switched Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 4695-4709	5.9	3
139	Semi-Markov Jump Linear Systems With Incomplete Sojourn and Transition Information: Analysis and Synthesis. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 159-174	5.9	36
138	Checking Structural Stability of BDC-Decomposable Systems via Convex Optimisation <b>2020</b> , 4, 205-210		4
137	Modelling the COVID-19 epidemic and implementation of population-wide interventions in Italy. <i>Nature Medicine</i> , <b>2020</b> , 26, 855-860	50.5	845
136	Railway collaborative ecodrive via dissension based switching nonlinear model predictive control. <i>European Journal of Control</i> , <b>2019</b> , 50, 153-160	2.5	4
135	Optimization based AIMD saturated algorithms for public charging of electric vehicles. <i>European Journal of Control</i> , <b>2019</b> , 47, 74-83	2.5	4
134	Mixed H2/H <sub>∞</sub> Control for automated highway driving. <i>Mechatronics</i> , <b>2019</b> , 57, 63-72	3	5
133	Opinion influence and evolution in social networks: A Markovian agents model. <i>Automatica</i> , <b>2019</b> , 100, 219-230	5.7	13
132	Differential linear matrix inequality in optimal sampled-data control. <i>Automatica</i> , <b>2019</b> , 100, 289-298	5.7	6

131	Switching and sweeping vibration absorbers: Theory and experimental validation. <i>Automatica</i> , <b>2018</b> , 93, 290-301	5.7	4
130	Braking Control in Railway Vehicles: A Distributed Preview Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 189-195	5.9	8
129	Periodic Control Systems <b>2018</b> , 1-16		
128	Stability and Stabilization for Markov Jump Linear Systems in Polyhedral Cones <b>2018</b> ,		2
127	Opinion Dynamics in Social Networks with Heterogeneous Markovian Agents <b>2018</b> ,		1
126	Efficient Train Operation via Shrinking Horizon Parametrized Predictive Control. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 203-208	0.7	1
125	Collaborative Eco-Drive of Railway Vehicles via Switched Nonlinear Model Predictive Control. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 626-631	0.7	1
124	On the Synthesis of Static Output Feedback Controllers for Guaranteed RMS Gain of Switched Systems with Arbitrary Switching <b>2018</b> ,		3
123	Uncertain Systems: Time-Varying Versus Time-Invariant Uncertainties. <i>Systems and Control: Foundations and Applications</i> , <b>2018</b> , 3-91	0.3	2
122	Homogeneous Rational Lyapunov Functions for Performance Analysis of Switched Systems With Arbitrary Switching and Dwell Time Constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5124-5137	5.9	21
121	Stability and Stabilization of Semi-Markov Jump Linear Systems With Exponentially Modulated Periodic Distributions of Sojourn Time. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 2870-2885	5.9	86
120	Mean stability and stabilization of positive linear systems subject to mode-dependent Poisson jumps. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2082-2087	0.7	2
119	Mean square stability of linear systems with Poisson jumps <b>2017</b> ,		2
118	Static output feedback control of switched systems with dwell time constraints or arbitrary switching <b>2017</b> ,		4
117	Minimax control of Markov jump linear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2016</b> , 30, 1152-1162	2.8	7
116	Design of stabilizing strategies for discrete-time dual switching linear systems. <i>Automatica</i> , <b>2016</b> , 69, 93-100	5.7	21
115	Optimal control of a class of positive Markovian bilinear systems. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2016</b> , 21, 155-170	4.5	3
114	On the RMS gain of switched systems via homogeneous rational Lyapunov functions <b>2016</b> ,		1

113	On the H-two norm of switched systems via homogeneous rational Lyapunov functions <b>2016</b> ,		2
112	State-Feedback Control of Positive Switching Systems with Markovian Jumps. <i>Springer Optimization and Its Applications</i> , <b>2016</b> , 185-219	0.4	2
111	A Youla-Kuĉra parameterization approach to output feedback relatively optimal control. <i>Systems and Control Letters</i> , <b>2015</b> , 81, 14-23	2.4	4
110	Discretisation of sparse linear systems: An optimisation approach. <i>Systems and Control Letters</i> , <b>2015</b> , 80, 42-49	2.4	4
109	Positive Markov Jump Linear Systems. <i>Foundations and Trends in Systems and Control</i> , <b>2015</b> , 2, 275-427	4	32
108	Stability and Stabilization of Discrete-Time Semi-Markov Jump Linear Systems via Semi-Markov Kernel Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 1-1	5.9	11
107	Switched Positive Linear Systems. <i>Foundations and Trends in Systems and Control</i> , <b>2015</b> , 2, 101-273	4	66
106	Convexity of the cost functional in an optimal control problem for a class of positive switched systems. <i>Automatica</i> , <b>2014</b> , 50, 1227-1234	5.7	49
105	Stochastic stability of Positive Markov Jump Linear Systems. <i>Automatica</i> , <b>2014</b> , 50, 1181-1187	5.7	150
104	Switching Gains for Semiactive Damping via Nonconvex Lyapunov Functions. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 721-728	4.8	5
103	Design of stabilizing strategies for dual switching stochastic-deterministic linear systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 4080-4084		4
102	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> , <b>2014</b> , 47, 1507-1512		2
101	A distributed braking control algorithm with preview action for railroad vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 7330-7335		1
100	Stabilization via switching of positive Markov jump linear systems <b>2014</b> ,		6
99	On the discretisation of sparse linear systems <b>2014</b> ,		1
98	Switching Strategies to Mitigate HIV Mutation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 1623-1628	4.8	27
97	Families of moment matching based, low order approximations for linear systems. <i>Systems and Control Letters</i> , <b>2014</b> , 64, 47-56	2.4	35
96	Optimal therapy scheduling for a simplified HIV infection model. <i>Automatica</i> , <b>2013</b> , 49, 2874-2880	5.7	30

95	Extensions of Bad Discretization for Linear Systems With Polyhedral Lyapunov Functions for Generalized Jordan Structures. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 2071-2076	5.9	1
94	Almost Sure Stability of Markov Jump Linear Systems With Deterministic Switching. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 209-214	5.9	62
93	Block-wise discretization accounting for structural constraints. <i>Automatica</i> , <b>2013</b> , 49, 3411-3417	5.7	18
92	Non-minimal factorization approach to the gain of discrete-time linear systems. <i>Automatica</i> , <b>2013</b> , 49, 2867-2873	5.7	1
91	On the interplay between periodic switches and uncontrolled jumps in linear discrete-time systems <b>2013</b> ,		1
90	Switched periodic systems in discrete time: stability and input-output norms. <i>International Journal of Control</i> , <b>2013</b> , 86, 1258-1268	1.5	4
89	Adaptive nonlinear control of braking in railway vehicles <b>2013</b> ,		4
88	A stabilizable switched linear system does not necessarily admit a smooth homogeneous Lyapunov function <b>2013</b> ,		2
87	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> , <b>2013</b> , 46, 211-216		0
86	Decentralized optimal control of a car platoon with guaranteed string stability <b>2013</b> ,		22
85	Adaptive robust stabilization of continuous casting. <i>Automatica</i> , <b>2012</b> , 48, 225-232	5.7	10
84	Essentially negative news about positive systems. <i>Linear Algebra and Its Applications</i> , <b>2012</b> , 436, 3425-3442	4.2	8
83	Passivity of switched linear systems: Analysis and control design. <i>Systems and Control Letters</i> , <b>2012</b> , 61, 549-554	2.4	44
82	. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 3038-3050	5.9	94
81	A Nonconservative LMI Condition for Stability of Switched Systems With Guaranteed Dwell Time. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 1297-1302	5.9	105
80	Sub-optimal switching with dwell time constraints for control of viral mutation <b>2012</b> ,		3
79	A Note on Discretization of Sparse Linear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 97-102		2
78	Almost sure stability of Markov jump linear systems with dwell-time constrained switching dynamics <b>2011</b> ,		6

77	Discretization for Linear Systems With Polyhedral Lyapunov Functions. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 2717-2722	5.9	10
76	Optimal and MPC Switching Strategies for Mitigating Viral Mutation and Escape. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 14857-14862		12
75	Root mean square gain of discrete-time switched linear systems under dwell time constraints. <i>Automatica</i> , <b>2011</b> , 47, 1677-1684	5.7	25
74	Discrete-time control for switched positive systems with application to mitigating viral escape. <i>International Journal of Robust and Nonlinear Control</i> , <b>2011</b> , 21, 1093-1111	3.6	229
73	Is stabilization of switched positive linear systems equivalent to the existence of an Hurwitz convex combination of the system matrices? <b>2011</b> ,		3
72	Stabilization of continuous-time switched linear positive systems <b>2010</b> ,		22
71	Dwell time analysis for continuous-time switched linear positive systems <b>2010</b> ,		34
70	On the design and synthesis of limit cycles using switching linear systems. <i>International Journal of Control</i> , <b>2010</b> , 83, 915-927	1.5	9
69	Dynamic optimization algorithms to mitigate HIV escape <b>2010</b> ,		5
68	Almost Sure Stabilization of Uncertain Continuous-Time Markov Jump Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 195-201	5.9	41
67	Analysis and control synthesis of continuous-time passive switched linear systems <b>2010</b> ,		1
66	$\mathcal{H}_2$ and Dwell Time Specifications of Continuous-Time Switched Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 207-212	5.9	51
65	Vertex/plane characterization of the dwell-time property for switching linear systems <b>2010</b> ,		10
64	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> , <b>2010</b> , 43, 266-271		5
63	Mold level control of a continuous casting plant by switching control strategies. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 1350-1355		3
62	An MPC approach to the design of two-layer hierarchical control systems. <i>Automatica</i> , <b>2010</b> , 46, 823-831	5.7	58
61	Markov Jump Linear Systems with switching transition rates: Mean square stability with dwell-time. <i>Automatica</i> , <b>2010</b> , 46, 1081-1088	5.7	140
60	Mean square stability of Markov Jump Linear Systems with piecewise constant transition rates under dwell-time specifications <b>2009</b> ,		2

59	Dwell Time Analysis of Deterministic and Stochastic Switched Systems. <i>European Journal of Control</i> , <b>2009</b> , 15, 228-248	2.5	51
58	Dwell time analysis of deterministic and stochastic switched systems <b>2009</b> ,		3
57	Almost Sure Stability of Stochastic Linear Systems with Ergodic Parameters. <i>European Journal of Control</i> , <b>2008</b> , 14, 114-123	2.5	12
56	Dynamic Output Feedback Control of Switched Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 720-733	5.9	197
55	Stabilization of discrete-time quantized linear systems: An $H_1$ approach <b>2008</b> ,		3
54	RMS gain with dwell time for discrete-time switched linear systems <b>2008</b> ,		2
53	Hard dwell time specifications of switched linear systems <b>2008</b> ,		4
52	A factorization approach for the gain of discrete-time linear systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 1299-1304		3
51	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> , <b>2008</b> , 41, 2144-2155		1
50	Stabilization of continuous-time switched nonlinear systems. <i>Systems and Control Letters</i> , <b>2008</b> , 57, 95-103	10.4	114
49	Simultaneous performance achievement via compensator blending. <i>Automatica</i> , <b>2008</b> , 44, 1-14	5.7	9
48	Guaranteed robustness bounds for matched-disturbance nonlinear systems. <i>Automatica</i> , <b>2008</b> , 44, 2230-2240	3.7	10
47	Hierarchical model predictive control <b>2007</b> ,		28
46	Discrete-Time, Closed-Loop Aeromechanical Stability Analysis of Helicopters with Higher Harmonic Control. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2007</b> , 30, 1249-1260	2.1	11
45	Output-feedback stabilization of discrete-time switched systems. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	1
44	ROBUST MODEL PREDICTIVE CONTROL OF DISCRETE-TIME SWITCHED SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 208-212		7
43	Optimal Switching of 1-DOF Oscillating Systems. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 118-130	0.9	5
42	On Robust Almost Sure Stabilization of Continuous-Time Markov Jump Linear Systems <b>2006</b> ,		2

41	Almost sure stability of stochastic linear systems with ergodic parameters: an average contractivity criterion <b>2006</b> ,		2
40	Closed-Loop Aeromechanical Stability of Hingeless Rotor Helicopters with Higher Harmonic Control. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2006</b> , 29, 179-189	2.1	7
39	Algebraic Riccati Equation and J-Spectral Factorization for Hinfy Smoothing and Deconvolution. <i>SIAM Journal on Control and Optimization</i> , <b>2006</b> , 45, 123-145	1.9	16
38	Stability and stabilization of discrete time switched systems. <i>International Journal of Control</i> , <b>2006</b> , 79, 719-728	1.5	256
37	Stability and Stabilization of Continuous-Time Switched Linear Systems. <i>SIAM Journal on Control and Optimization</i> , <b>2006</b> , 45, 1915-1930	1.9	341
36	Dynamic Output Feedback Stabilization of Continuous-Time Switched Systems <b>2006</b> , 347-352		3
35	SWITCHING AND PERIODIC CONTROL OF THE BELGIAN CHOCOLATE SYSTEM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 149-153		1
34	STABILIZATION OF DISCRETE-TIME SWITCHED SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 160-165		
33	COMPENSATOR BLENDING: A NEW TOOL FOR MULTI-OBJECTIVE DESIGN. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 1-6		1
32	GUARANTEED ROBUSTNESS BOUNDS FOR ACTUATOR DISTURBANCE NONLINEAR CONTROL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2006</b> , 39, 393-398		2
31	Theory, algorithms and technology in the design of control systems. <i>Annual Reviews in Control</i> , <b>2006</b> , 30, 19-30	10.3	24
30	On almost sure stability of continuous-time Markov jump linear systems. <i>Automatica</i> , <b>2006</b> , 42, 983-988	5.7	71
29	Robust stability of time varying polytopic systems. <i>Systems and Control Letters</i> , <b>2006</b> , 55, 81-85	2.4	104
28	ALMOST SURE STABILITY OF CONTINUOUS-TIME MARKOV JUMP LINEAR SYSTEMS: A RANDOMIZED APPROACH. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 7-12		2
27	THEORY, ALGORITHMS AND TECHNOLOGY IN THE DESIGN OF CONTROL SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 130-140		1
26	Theoretical aspects of continuous-time periodic systems. <i>Annual Reviews in Control</i> , <b>2005</b> , 29, 205-215	10.3	12
25	Hankel/Toeplitz matrices and the static output feedback stabilization problem. <i>Mathematics of Control, Signals, and Systems</i> , <b>2005</b> , 17, 231-268	1.3	5
24	A note on the existence of positive realizations. <i>Linear Algebra and Its Applications</i> , <b>2004</b> , 390, 329-343	0.9	13



23	Algebraic Riccati equation and J-spectral factorization for estimation. <i>Systems and Control Letters</i> , <b>2004</b> , 51, 383-393	2.4	15
22	On discrete-time $H_{\infty}$ fixed-lag smoothing. <i>IEEE Transactions on Signal Processing</i> , <b>2004</b> , 52, 132-141	4.8	15
21	On the Role of Zeros in Rotorcraft Aeromechanics. <i>Journal of the American Helicopter Society</i> , <b>2004</b> , 49, 318-327	1.2	5
20	Polynomial approach to the control of SISO periodic systems subject to input constraint. <i>Automatica</i> , <b>2003</b> , 39, 1417-1424	5.7	18
19	A $\lambda$ -spectral factorization approach for $H_{\infty}$ estimation problems in discrete time. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 2108-2113	5.9	17
18	A hamilton-jacobi setup for the static output feedback stabilization of nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 2038-2041	5.9	11
17	Trading robustness with optimality in nonlinear control. <i>Automatica</i> , <b>2001</b> , 37, 1961-1969	5.7	8
16	Invariant representations of discrete-time periodic systems. <i>Automatica</i> , <b>2000</b> , 36, 1777-1793	5.7	120
15	$H_{\infty}$ robustness of adaptive filters against measurement noise and parameter drift. <i>Automatica</i> , <b>1999</b> , 35, 1509-1520	5.7	10
14	From singular to nonsingular filtering of periodic systems: filling the gap with the spectral interactor matrix. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 222-227	5.9	1
13	$H_{\infty}$ -differential Riccati equations: convergence properties and finite escape phenomena. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 113-118	5.9	15
12	The model matching problem for periodic discrete-time systems. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 1472-1476	5.9	20
11	Analysis of discrete-time linear periodic systems. <i>Control and Dynamic Systems</i> , <b>1996</b> , 78, 313-339		52
10	The realization problem for linear periodic systems. <i>Automatica</i> , <b>1995</b> , 31, 775-779	5.7	56
9	Covariance bounds for discrete-time linear systems with time-varying parameter uncertainty. <i>International Journal of Control</i> , <b>1994</b> , 60, 1307-1317	1.5	4
8	Zero-error regulation of discrete-time linear periodic systems. <i>Systems and Control Letters</i> , <b>1990</b> , 15, 161-167	2.4	13
7	An algebraic riccati equation for the discrete-time periodic prediction problem. <i>Systems and Control Letters</i> , <b>1990</b> , 14, 71-78	2.4	37
6	The Periodic Lyapunov Equation. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>1988</b> , 9, 499-512	1.5	91

5	Inertia theorems for the periodic Lyapunov difference equation and periodic Riccati difference equation. <i>Linear Algebra and Its Applications</i> , <b>1987</b> , 85, 249-265	0.9	22
4	Discrete-time linear periodic systems: A note on the reachability and controllability interval length. <i>Systems and Control Letters</i> , <b>1986</b> , 8, 75-78	2.4	19
3	The extended periodic lyapunov lemma. <i>Automatica</i> , <b>1985</b> , 21, 603-605	5.7	45
2	The Role of Asymptomatic Infections in the COVID-19 Epidemic via Complex Networks and Stability Analysis. <i>SIAM Journal on Control and Optimization</i> , S119-S144	1.9	0
1	Positive Systems: Discretization with Positivity and Constraints1-20		1