Andre Fioravanti

List of Publications by Year
in descending order

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66 papers	1,013 citations	566801 15 h-index	433756 31 g-index
67 all docs	67 docs citations	67 times ranked	584 citing authors

#	Article	IF	Citations
1	${cal H}_{infty}$ Filtering of Discrete-Time Markov Jump Linear Systems Through Linear Matrix Inequalities. IEEE Transactions on Automatic Control, 2009, 54, 1347-1351.	3.6	116
2	Dynamic Output Feedback Control of Discrete-Time Markov Jump Linear Systems through Linear Matrix Inequalities. SIAM Journal on Control and Optimization, 2009, 48, 573-593.	1.1	95
3	Markov jump linear systems and filtering through network transmitted measurements. Signal Processing, 2010, 90, 2842-2850.	2.1	84
4	Filtering of discreteâ€time Markov jump linear systems with uncertain transition probabilities. International Journal of Robust and Nonlinear Control, 2011, 21, 613-624.	2.1	75
5	PID controller design for fractional-order systems with time delays. Systems and Control Letters, 2012, 61, 18-23.	1.3	74
6	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0002.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="script">H</mml:mi></mml:mrow><mml:mrow><mml:mo>âˆž</mml:mo></mml:mrow></mml:msub></mml:math> robust and networked control of discrete-time MJLS through LMIs. Journal of the Franklin Institute, 2012, 349, 2171-2181.	1.9	55
7	A numerical method for stability windows and unstable root-locus calculation for linear fractional time-delay systems. Automatica, 2012, 48, 2824-2830.	3.0	45
8	â„‹₂filtering of discrete-time Markov jump linear systems through linear matrix inequalities. International Journal of Control, 2008, 81, 1221-1231.	1.2	40
9	Stability of Neutral Systems with Commensurate Delays and Poles Asymptotic to the Imaginary Axis. SIAM Journal on Control and Optimization, 2011, 49, 498-516.	1.1	40
10	Switching Controller Design With Dwell-Times and Sampling. IEEE Transactions on Automatic Control, 2017, 62, 5837-5843.	3.6	40
11	Discreteâ€time output feedback for Markov jump systems with uncertain transition probabilities. International Journal of Robust and Nonlinear Control, 2013, 23, 894-902.	2.1	36
12	Estimation of tireâ€“road friction for road vehicles: a time delay neural network approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	31
13	${cal H}_2$ Sampledâ€”Data Filtering of Linear Systems. IEEE Transactions on Signal Processing, 2014, 62, 4839-4846.	3.2	21
14	Optimal and mode-independent filters for generalised Bernoulli jump systems. International Journal of Systems Science, 2015, 46, 405-417.	3.7	20
15	Suboptimal switching control consistency analysis for discrete-time switched linear systems. European Journal of Control, 2013, 19, 214-219.	1.6	17
16	On a Rational Transfer Function-Based Approach to ${cal H}_{infty}$ Filtering Design for Time-Delay Linear Systems. IEEE Transactions on Signal Processing, 2011, 59, 979-988.	3.2	15
17	YALTA: a Matlab toolbox for the Hâˆž-stability analysis of classical and fractional systems with commensurate delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 839-844.	0.4	15
18	Optimal H2 and Hâˆž Mode-Independent Control for Generalized Bernoulli Jump Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	15

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19	Filter inputs with Markovian lossy links: Zero or hold?. , 2011, , .		13
20	H_infty-Stability Analysis of Fractional Delay Systems of Neutral Type. SIAM Journal on Control and Optimization, 2016, 54, 740-759.	1.1	11
21	On analysis and design of discrete-time constrained switched systems. International Journal of Control, 2018, 91, 437-452.	1.2	10
22	Stability and Stabilization Through Envelopes for Retarded and Neutral Time-Delay Systems. IEEE Transactions on Automatic Control, 2020, 65, 1640-1646.	3.6	10
23	Nonlinear state-feedback design for vehicle lateral control using sum-of-squares programming. Vehicle System Dynamics, 2022, 60, 743-769.	2.2	10
24	Hâˆž State Feedback Control of Discrete-time Markov Jump Linear Systems through Linear Matrix Inequalities*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12620-12625.	0.4	9
25	On the ergodic control of ensembles. Automatica, 2019, 108, 108483.	3.0	9
26	Dynamic output feedback H_∞ control of discrete-time Markov jump linear systems through Linear Matrix Inequalities. , 2008, , .		8
27	Filtering of discrete-time Markov jump linear systems with cluster observation: An approach to Gilbert-Elliot's network channel. , 2009, , .		8
28	Dwell-time control of continuous-time switched linear systems. , 2014, , .		8
29	ℋ<inf>2</inf> output-feedback control of continuous-time MJLS with uncertain transition rates. , 2014, , .		6
30	Impulsive Markov jump linear systems: Stability analysis and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e348" altimg="si1.svg"><mml:msub><mml:mrow><mml:mi mathvariant="double-struck">H</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> control. Nonlinear Analysis: Hybrid Systems, 2021, 42, 101089.	2.1	6
31	A numerical method to find stability windows and unstable poles for linear neutral time-delay systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 183-188.	0.4	5
32	Stability of fractional neutral systems with multiple delays and poles asymptotic to the imaginary axis. , 2010, , .		5
33	Stability windows and unstable root-loci for linear fractional time-delay systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12532-12537.	0.4	5
34	Identification of oil starvation in hydrodynamic journal bearing using rotor vibration and Extended Kalman Filter. Tribology International, 2022, 169, 107469.	3.0	5
35	On a rational transfer function-based approach to â„<inf>âˆž</inf> filter design for time-delay linear systems. , 2009, , .		4
36	Analysis of neutral systems with commensurate delays and many chains of poles asymptotic to same points on the imaginary axis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 120-125.	0.4	4

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37	âˆž Control Design for Time-Delay Linear Systems: A Rational Transfer Function Based Approachg. European Journal of Control, 2012, 18, 425-436.	1.6	4
38	Stability Analysis and Output-Feedback Control Design for Time-Delay Systems * *This work was supported by grants from Smart2 Erasmus Mundus, Conselho Nacional de Desenvolvimento CientÃfico e TecnolÃ³gico (CNPq/Brazil) grant 303850/2014-0 and FundaÃ§Ã£o de Amparo Ã Pesquisa do Estado de SÃ£o Paulo (FAPESP) grant 2014/17074-0.. IFAC-PapersOnLine, 2017, 50, 1292-1297.	0.5	4
39	H₂ Output-Feedback Cluster Control for Continuous Semi-Markov Jump Linear Systems With Erlang Dwell Times. , 2023, 7, 109-114.		4
40	Obtaining alternative LMI constraints with applications to discrete-time MJLS and switched systems. Journal of the Franklin Institute, 2013, 350, 2212-2228.	1.9	3
41	Stability analysis and state-feedback control design for time-delay systems. , 2016, , .		3
42	â„₂ state-feedback control for continuous semi-Markov jump linear systems with rational transition rates. International Journal of Control, 2023, 96, 1-11.	1.2	3
43	Stability of neutral systems with multiple delays and poles asymptotic to the imaginary axis. , 2009, , .		2
44	Filtering for discrete-time Markov jump systems with network transmitted mode. , 2010, , .		2
45	â„₂ and â„_{âˆž} analysis and state feedback control design for discrete-time constrained switched linear systems. International Journal of Control, 2021, 94, 2834-2845.	1.2	2
46	A comprehensive experimental validation of a scaled car-like vehicle: Lateral dynamics identification, stability analysis, and control application. Control Engineering Practice, 2021, 116, 104924.	3.2	2
47	Switching Control Consistency Analysis for Discrete-time Switched Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 599-604.	0.4	1
48	Equivalent LMI constraints: Applications to discrete-time MJLS and switched systems. , 2012, , .		1
49	H<inf>2</inf> filtering design for sampled-data systems. , 2013, , .		1
50	ℋ<inf>2</inf> and ℋ<inf>∞</inf> state-feedback control of continuous-time MJLS with uncertain transition rates?. , 2014, , .		1
51	Constrained switched systems: Stability and performance. , 2015, , .		1
52	Hâˆž Analysis of Linear Systems with Jumps: Applications to Sampled-Data Control**This work was in part supported by Science Foundation Ireland (SFI) grant 11/PI/1177; FundaÃ§Ã£o de Amparo Ã Pesquisa do Estado de SÃ£o Paulo (FAPESP/Brazil) grant 2014/17074-0; Conselho Na-cional de Desenvolvimento CientÃfico e TecnolÃ³gico (CNPq/Brazil) grant 303850/2014-0.M. Souza was with the School of Electrical and Electronic Engineering, University College Dublin, Republic of Ireland, when parts of this work were developed.. IFAC-PapersOnLine, 2016, 49, 138-143.	0.5	1
53	Stability and Robust Stabilisation Through Envelopes for Retarded Time-Delay Systems. IFAC-PapersOnLine, 2018, 51, 1-6.	0.5	1
54	Optimal H₂ output-feedback control of sampled-data systems. International Journal of Control, 2020, 93, 2228-2238.	1.2	1

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55	Sum of squares approach for ground vehicle lateral control under tire saturation forces. IFAC-PapersOnLine, 2020, 53, 14387-14393.	0.5	1
56	On Differential Drive Robot Learning Convex Policy with Application to Path-Tracking. IFAC-PapersOnLine, 2021, 54, 7-12.	0.5	1
57	ℋ<inf>∞</inf> control design for time-delay linear systems: A rational transfer function based approach. , 2011, , .		0
58	Matrix norm approach for control of linear time-delay systems. , 2011, , .		0
59	Authors' response to discussion on â€œSuboptimal switching control consistency analysis for discrete-time switched linear systemsâ€• European Journal of Control, 2013, 19, 221.	1.6	0
60	Quality Assessment of Lyapunov-Metzler Methods for Discrete-Time Switched Control * *This work was supported by Conselho Nacional de Desenvolvi-mento CientÃfico e TecnolÃ³gico (CNPq/Brazil) grants 303850/2014-0 and 306259/2015-0 and FundaÃ§Ã£o de Amparo Ã Pesquisa do Estado de SÃ£o Paulo (FAPESP) grant 2014/17074-0.. IFAC-PapersOnLine, 2017, 50, 2070-2075.	0.5	0
61	H 2 and H∞ analysis for discrete-time constrained switched linear systems * *This work was supported by Conselho Nacional de Desenvolvi-mento CientÃfico e TecnolÃ³gico (CNPq/Brazil) grant 303850/2014-0, FundaÃ§Ã£o de Amparo Ã Pesquisa do Estado de SÃ£o Paulo (FAPESP) grants 2014/17074-0 and 2016/19504-7, and CoordenaÃ§Ã£o de Aper-feiÃ§oamento de Pessoal de NÃvel Superior(CAPES/Brazil)..	0.5	0
62	Frequency-Domain Methods for Sparse Linear Systems Discretisation * *This work was supported by grants from Conselho Nacional de Desenvolvimento CientÃfico e TecnolÃ³gico (CNPq/Brazil) grant 303850/2014-0, FundaÃ§Ã£o de Amparo Ã Pesquisa do Estado de SÃ£o Paulo (FAPESP) grants 2014/17074-0 and 2016/19504-7 and Science Foundation Ireland Grant grant 11/PI/1177.. IFAC-PapersOnLine, 2017, 50, 3612-3616.	0.5	0
63	Sampled-Data Control of Interval Systems with Guaranteed Hâˆž Performance. , 2019, , .		0
64	Control Design Based on Sum of Squares Programming for Non-affine in Input Systems. , 2020, , .		0
65	Hybrid model-based and data-driven wind velocity estimator for an autonomous robotic airship. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	0
66	Comparison between SOS and (S)DSOS Lyapunov functions for nonlinear systems. , 0, , .		0