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	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
2	H₂ Output-Feedback Cluster Control for Continuous Semi-Markov Jump Linear Systems With Erlang Dwell Times. , 2023, 7, 109-114.		4
3	Nonlinear state-feedback design for vehicle lateral control using sum-of-squares programming. Vehicle System Dynamics, 2022, 60, 743-769.	2.2	10
4	Identification of oil starvation in hydrodynamic journal bearing using rotor vibration and Extended Kalman Filter. Tribology International, 2022, 169, 107469.	3.0	5
5	â„‹₂ and â„‹_{â^ž} analysis and state feedback control design for discrete-time constrained switched linear systems. International Journal of Control, 2021, 94, 2834-2845.	1.2	2
6	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
7	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
8	On Differential Drive Robot Learning Convex Policy with Application to Path-Tracking. IFAC-PapersOnLine, 2021, 54, 7-12.	0.5	1
9	Optimal H₂ output-feedback control of sampled-data systems. International Journal of Control, 2020, 93, 2228-2238.	1.2	1
10	Stability and Stabilization Through Envelopes for Retarded and Neutral Time-Delay Systems. IEEE Transactions on Automatic Control, 2020, 65, 1640-1646.	3.6	10
11	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
12	Control Design Based on Sum of Squares Programming for Non-affine in Input Systems. , 2020, , .		0
13	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
14	Sum of squares approach for ground vehicle lateral control under tire saturation forces. IFAC-PapersOnLine, 2020, 53, 14387-14393.	0.5	1
15	On the ergodic control of ensembles. Automatica, 2019, 108, 108483.	3.0	9
16	Sampled-Data Control of Interval Systems with Guaranteed Hâ^ž Performance. , 2019, , .		0
17	On analysis and design of discrete-time constrained switched systems. International Journal of Control, 2018, 91, 437-452.	1.2	10
18	Stability and Robust Stabilisation Through Envelopes for Retarded Time-Delay Systems. IFAC-PapersOnLine, 2018, 51, 1-6.	0.5	1

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19	Switching Controller Design With Dwell-Times and Sampling. IEEE Transactions on Automatic Control, 2017, 62, 5837-5843.	3.6	40
20	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
21	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
22	H 2 and H â ž 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).. IFAC-PapersOnLine, 2017, 50, 2076-2081.	0.5	0
23	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,	0.5	0
24	Hâ ž 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
25	Stability analysis and state-feedback control design for time-delay systems. , 2016, , .		3
26	H_infty-Stability Analysis of Fractional Delay Systems of Neutral Type. SIAM Journal on Control and Optimization, 2016, 54, 740-759.	1.1	11
27	Constrained switched systems: Stability and performance. , 2015, , .		1
28	Optimal and mode-independent filters for generalised Bernoulli jump systems. International Journal of Systems Science, 2015, 46, 405-417.	3.7	20
29	ℋ<inf>2</inf> output-feedback control of continuous-time MJLS with uncertain transition rates. , 2014, , .		6
30	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
31	Dwell-time control of continuous-time switched linear systems. , 2014, , .		8
32	${cal H}_2$ Sampledâ€"Data Filtering of Linear Systems. IEEE Transactions on Signal Processing, 2014, 62, 4839-4846.	3.2	21
33	ℋ<inf>2</inf> and ℋ<inf>∞</inf> state-feedback control of continuous-time MJLS with uncertain transition rates?. , 2014, , .		1
34	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
35	Suboptimal switching control consistency analysis for discrete-time switched linear systems. European Journal of Control, 2013, 19, 214-219.	1.6	17
36	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

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37	H<inf>2</inf> filtering design for sampled-data systems. , 2013, , .		1
38	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
39	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
40	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
41	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
42	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
43	Equivalent LMI constraints: Applications to discrete-time MJLS and switched systems. , 2012, , .		1
44	<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
45	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
46	PID controller design for fractional-order systems with time delays. Systems and Control Letters, 2012, 61, 18-23.	1.3	74
47	Filter inputs with Markovian lossy links: Zero or hold?. , 2011, , .		13
48	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
49	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
50	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
51	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
52	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
53	ℋ<inf>∞</inf> control design for time-delay linear systems: A rational transfer function based approach. , 2011, , .		0
54	Matrix norm approach for control of linear time-delay systems. , 2011, , .		0

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55	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
56	Markov jump linear systems and filtering through network transmitted measurements. Signal Processing, 2010, 90, 2842-2850.	2.1	84
57	Stability of fractional neutral systems with multiple delays and poles asymptotic to the imaginary axis. , 2010, , .		5
58	Filtering for discrete-time Markov jump systems with network transmitted mode. , 2010, , .		2
59	Filtering of discrete-time Markov jump linear systems with cluster observation: An approach to Gilbert-Elliot's network channel. , 2009, , .		8
60	On a rational transfer function-based approach to â„‹<inf>âˆž</inf> filter design for time-delay linear systems. , 2009, , .		4
61	Stability of neutral systems with multiple delays and poles asymptotic to the imaginary axis. , 2009, , .		2
62	${cal H}_{infty}$ Filtering of Discrete-Time Markov Jump Linear Systems Through Linear Matrix Inequalities. IEEE Transactions on Automatic Control, 2009, 54, 1347-1351.	3.6	116
63	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
64	â„‹₂filtering of discrete-time Markov jump linear systems through linear matrix inequalities. International Journal of Control, 2008, 81, 1221-1231.	1.2	40
65	Dynamic output feedback H_∞ control of discrete-time Markov jump linear systems through Linear Matrix Inequalities. , 2008, , .		8
66	Comparison between SOS and (S)DSOS Lyapunov functions for nonlinear systems. , 0, , .		0