

# Alfredo Germani

## List of Publications by Year in descending order

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40  
papers

803  
citations

687363

13  
h-index

552781

26  
g-index

40  
all docs

40  
docs citations

40  
times ranked

484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polynomial Filtering for Linear Discrete Time Non-Gaussian Systems. SIAM Journal on Control and Optimization, 1996, 34, 1666-1690.	2.1	123
2	A Chain Observer for Nonlinear Systems with Multiple Time-Varying Measurement Delays. SIAM Journal on Control and Optimization, 2014, 52, 1862-1885.	2.1	88
3	Luenberger-Like Observers for Nonlinear Time-Delay Systems with Application to the Artificial Pancreas: The Attainment of Good Performance. IEEE Control Systems, 2017, 37, 33-49.	0.8	75
4	Filtering of Stochastic Nonlinear Differential Systems via a Carleman Approximation Approach. IEEE Transactions on Automatic Control, 2007, 52, 2166-2172.	5.7	58
5	Stabilization of strict-feedback nonlinear systems with input delay using closed-loop predictors. International Journal of Robust and Nonlinear Control, 2016, 26, 3524-3540.	3.7	46
6	A New Suboptimal Approach to the Filtering Problem for Bilinear Stochastic Differential Systems. SIAM Journal on Control and Optimization, 2000, 38, 1171-1203.	2.1	40
7	Distributed Kalman Filtering Over Sensor Networks With Unknown Random Link Failures. , 2018, 2, 587-592.		35
8	Representation of a Class of MIMO Systems via Internally Positive Realization. European Journal of Control, 2010, 16, 291-304.	2.6	28
9	A New Approach to the Internally Positive Representation of Linear MIMO Systems. IEEE Transactions on Automatic Control, 2012, 57, 119-134.	5.7	25
10	Internally Positive Representation of a Class of Continuous Time Systems. IEEE Transactions on Automatic Control, 2012, 57, 3158-3163.	5.7	25
11	Internally Positive Representations and Stability Analysis of Coupled Differential-Difference Systems With Time-Varying Delays. IEEE Transactions on Automatic Control, 2019, 64, 2514-2521.	5.7	18
12	State space representation of a class of MIMO Systems via positive systems. , 2007, , .		15
13	Stable Internally Positive Representations of Continuous Time Systems. IEEE Transactions on Automatic Control, 2014, 59, 1048-1053.	5.7	15
14	Feedback polynomial filtering and control of non-Gaussian linear time-varying systems. Systems and Control Letters, 2019, 123, 108-115.	2.3	15
15	Feedback quadratic filtering. Automatica, 2017, 82, 158-164.	5.0	14
16	Internally positive representations and stability analysis of linear differential systems with multiple time-varying delays. IET Control Theory and Applications, 2019, 13, 920-927.	2.1	14
17	Internally Positive Representations and Stability Analysis of Linear Difference Systems with Multiple Delays. IFAC-PapersOnLine, 2017, 50, 3099-3104.	0.9	13
18	Stability Analysis of Coupled Differential-Difference Systems With Multiple Time-Varying Delays:A Positivity-Based Approach. IEEE Transactions on Automatic Control, 2021, 66, 6085-6092.	5.7	13

#	ARTICLE	IF	CITATIONS
19	Predictor-based control of stochastic systems with nonlinear diffusions and input delay. Automatica, 2019, 107, 43-51.	5.0	12
20	Stability conditions for linear discrete-time switched systems in block companion form. IET Control Theory and Applications, 2020, 14, 3107-3115.	2.1	12
21	Kalman-like filtering with intermittent observations and non-Gaussian noise. IFAC-PapersOnLine, 2019, 52, 61-66.	0.9	11
22	An efficient approach to the design of observers for continuous-time systems with discrete-time measurements. , 2011, , .		10
23	Identification of Forward and Feedback Transfer Functions in Closed-Loop Systems with Feedback Delay. IFAC-PapersOnLine, 2017, 50, 12847-12852.	0.9	10
24	On the stability of discrete-time linear switched systems in block companion form. IFAC-PapersOnLine, 2020, 53, 2033-2038.	0.9	10
25	LQ Non-Gaussian Regulator With Markovian Control. , 2019, 3, 679-684.		9
26	LTV stochastic systems stabilization with large and variable input delay. Automatica, 2021, 123, 109305.	5.0	9
27	An Enhanced Observer for Nonlinear Systems With Time-Varying Measurement Delays. IEEE Transactions on Automatic Control, 2021, 66, 5968-5973.	5.7	8
28	The state observer as a tool for the estimation of gene expression. Journal of Mathematical Analysis and Applications, 2012, 391, 382-396.	1.0	7
29	A state predictor for continuous-time stochastic systems. Systems and Control Letters, 2016, 98, 37-43.	2.3	7
30	Identification of Regulatory Network Motifs from Gene Expression Data. Mathematical Modelling and Algorithms, 2010, 9, 233-245.	0.5	6
31	Robust planar tracking via a virtual measurement approach. European Journal of Control, 2013, 19, 146-156.	2.6	6
32	Predictor-Based Output-Feedback Control of Linear Stochastic Systems With Large I/O Delays. IEEE Transactions on Automatic Control, 2021, 66, 307-313.	5.7	6
33	On parameter estimation of Heston's stochastic volatility model: a polynomial filtering method. Decisions in Economics and Finance, 2019, 42, 503-525.	1.8	5
34	Optimal Continuous-Discrete Linear Filter and Moment Equations for Nonlinear Diffusions. IEEE Transactions on Automatic Control, 2020, 65, 3961-3976.	5.7	4
35	A detection-estimation approach to filtering for Gaussian systems with intermittent observations. , 2014, , .		3
36	On the stability of coupled differential-difference systems with multiple time-varying delays: a positivity-based approach. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	A Robust Approximation Scheme for the LQG Control of an Undamped Flexible Beam with a Tip Mass. European Journal of Control, 2006, 12, 635-651.	2.6	2
38	Stability Analysis of Linear Delay Systems via Internally Positive Representations: An Overview. Advances in Delays and Dynamics, 2022, , 25-50.	0.4	2
39	Filtering discrete-time systems with multiplicative noise in L2 spaces with applications. , 2021, , 1-1.		1
40	LQ non-Gaussian Control with I/O packet losses. , 2020, , .		0