

# Pablo Millán

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

761  
citations

623734

14  
h-index

552781

26  
g-index

55  
all docs

55  
docs citations

55  
times ranked

709  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation Control of Autonomous Underwater Vehicles Subject to Communication Delays. IEEE Transactions on Control Systems Technology, 2014, 22, 770-777.	5.2	172
2	Distributed consensus-based estimation considering network induced delays and dropouts. Automatica, 2012, 48, 2726-2729.	5.0	95
3	Sensor-network-based robust distributed control and estimation. Control Engineering Practice, 2013, 21, 1238-1249.	5.5	44
4	Distributed estimation based on multi-hop subspace decomposition. Automatica, 2019, 99, 213-220.	5.0	33
5	Distributed set-membership observers for interconnected multi-rate systems. Automatica, 2017, 85, 221-226.	5.0	29
6	Distributed estimation in networked systems under periodic and event-based communication policies. International Journal of Systems Science, 2015, 46, 139-151.	5.5	28
7	Data-driven methods for present and future pandemics: Monitoring, modelling and managing. Annual Reviews in Control, 2021, 52, 448-464.	7.9	28
8	Design and Application of Suboptimal Mixed $H_2/H_\infty$ Controllers for Networked Control Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1057-1065.	5.2	27
9	Reduced-order $H_2/H_\infty$ distributed observer for sensor networks. International Journal of Control, 2013, 86, 1870-1879.	1.9	26
10	Smart Farm Irrigation: Model Predictive Control for Economic Optimal Irrigation in Agriculture. Agronomy, 2021, 11, 1810.	3.0	22
11	Robust stability of nonlinear time-varying delay systems with interval time-varying delay. International Journal of Robust and Nonlinear Control, 2011, 21, 709-724.	3.7	21
12	Integer programming to optimize Micro-Hydro Power Plants for generic river profiles. Renewable Energy, 2018, 126, 905-914.	8.9	17
13	Distributed Control and Estimation Scheme With Applications to Process Control. IEEE Transactions on Control Systems Technology, 2015, 23, 1563-1570.	5.2	15
14	Suboptimal distributed control and estimation: application to a four coupled tanks system. International Journal of Systems Science, 2016, 47, 1755-1771.	5.5	15
15	Optimized micro-hydro power plants layout design using messy genetic algorithms. Expert Systems With Applications, 2020, 159, 113539.	7.6	14
16	Event-based $H_2/H_\infty$ controllers for networked control systems. International Journal of Control, 2014, 87, 2488-2498.	1.9	13
17	Negotiated distributed estimation with guaranteed performance for bandwidth-limited situations. Automatica, 2018, 87, 94-102.	5.0	13
18	Challenges and Future Directions in Pandemic Control. , 2022, 6, 722-727.		13

#	ARTICLE	IF	CITATIONS
19	Stochastic MPC with applications to process control. International Journal of Control, 2015, 88, 792-800.	1.9	12
20	Guaranteed estimation and distributed control of vehicle formations. International Journal of Control, 2020, 93, 2729-2742.	1.9	11
21	Data Fusion Based on Subspace Decomposition for Distributed State Estimation in Multi-Hop Networks. Sensors, 2019, 19, 9.	3.8	10
22	Three-dimensional optimization of penstock layouts for micro-hydropower plants using genetic algorithms. Applied Energy, 2021, 301, 117499.	10.1	9
23	Self-triggered sampling selection based on quadratic programming*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8896-8901.	0.4	8
24	Control for discrete TDS with application to networked control systems: Periodic and asynchronous communication. Optimal Control Applications and Methods, 2015, 36, 60-76.	2.1	8
25	An Evolutionary Computational Approach for Designing Micro Hydro Power Plants. Energies, 2019, 12, 878.	3.1	8
26	Networked predictive control of systems with data dropouts. , 2008, , .		7
27	Distributed consensus-based Kalman filtering considering subspace decomposition. IFAC-PapersOnLine, 2017, 50, 2494-2499.	0.9	7
28	Delay-dependent robust stability analysis for systems with interval delays. , 2010, , .		6
29	Distributed agent-based control and estimation over unreliable networks for a class of nonlinear large-scale systems. International Journal of Control, 2019, 92, 664-676.	1.9	5
30	A Non-Cooperative Game-Theoretic Approach for Distributed Voltage Regulation in DC Grids with a High Penetration of Renewable Energies. Electronics (Switzerland), 2021, 10, 768.	3.1	5
31	Improved delay-dependent stability criterion for uncertain networked control systems with induced time-varying delays* *The authors would like to acknowledge CICYT (Grant DPI2007-64697), and the European Commission(EC) (FeedNetBack Project, grant agreement 223866), for funding this work.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control. 2009, 42, 346-351.	0.4	4
32	An optimal control $L_2$ -gain disturbance rejection design for networked control systems. , 2010, , .		3
33	Distributed implementation and design for state estimation. IFAC-PapersOnLine, 2017, 50, 6483-6488.	0.9	3
34	Distributed estimation design for LTI systems: a linear quadratic approach. International Journal of Systems Science, 2019, 50, 2703-2714.	5.5	3
35	Agent-based guaranteed estimation and control of nonlinear systems. , 2015, , .		2
36	Distributed Negotiation with a Class of Quadratic Cost Functions * *The authors acknowledge MCyT (Grant DPI2013-44135-R) and AEI/FEDER (Grant TEC2016-80242-P) for funding this work.. IFAC-PapersOnLine, 2017, 50, 12285-12290.	0.9	2

#	ARTICLE	IF	CITATIONS
37	Trust-Based Distributed State Estimation in the Presence of Cyber-Attacks Tested With Hardware-in-the-Loop. , 2022, 6, 506-511.		2
38	Guaranteed Estimation for Distributed Networked Control Systems. Lecture Notes in Electrical Engineering, 2015, , 231-240.	0.4	2
39	Optimal networked control of a 2 degree-of-freedom direct drive robot manipulator. , 2010, , .		1
40	An asynchronous technique for distributed estimation based on zonotopes. , 2015, , .		1
41	Kalman-inspired distributed set-membership observers. , 2016, , .		1
42	A Game-Theoretic Framework for Distributed Voltage Regulation over HVDC grids. , 2018, , .		1
43	Using simple estimates for the flexural stiffness of thick FDM beams based on sandwich beam models. Rapid Prototyping Journal, 2021, 27, 120-130.	3.2	1
44	A Genetic Algorithm To Optimize Penstocks For Micro-Hydro Power Plants. , 2021, , .		1
45	Delays in Distributed Estimation and Control over Communication Networks. Advances in Delays and Dynamics, 2016, , 199-216.	0.4	1
46	Results on distributed state estimation for LTI systems facing communication failures. IFAC-PapersOnLine, 2020, 53, 3248-3253.	0.9	1
47	Economic Model Predictive Control for Smart and Sustainable Farm Irrigation. , 2021, , .		1
48	An algorithm to compensate for large data dropouts in Networked control systems. , 2008, , .		0
49	Application of network-based robust control to a personal pendulum vehicle. , 2009, , .		0
50	Application of Genetic Algorithms for "Designing Micro-Hydro Power Plants in Rural Isolated Areas" A Case Study in San Miguelito, Honduras. Studies in Computational Intelligence, 2020, , 169-200.	0.9	0