

# David GÃ³mez-GutiÃ©rrez

## List of Publications by Year in descending order

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42  
papers

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citations

516215

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476904

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g-index

42  
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42  
docs citations

42  
times ranked

548  
citing authors

#	ARTICLE	IF	CITATIONS
1	A class of predefined-time stable dynamical systems. IMA Journal of Mathematical Control and Information, 2018, 35, i1-i29.	1.1	197
2	Enhancing the settling time estimation of a class of fixed-time stable systems. International Journal of Robust and Nonlinear Control, 2019, 29, 4135-4148.	2.1	158
3	On the design of nonautonomous fixed-time controllers with a predefined upper bound of the settling time. International Journal of Robust and Nonlinear Control, 2020, 30, 3871-3885.	2.1	50
4	Vehicle Detection with Occlusion Handling, Tracking, and OC-SVM Classification: A High Performance Vision-Based System. Sensors, 2018, 18, 374.	2.1	46
5	On the observer design problem for continuous-time switched linear systems with unknown switchings. Journal of the Franklin Institute, 2015, 352, 1595-1612.	1.9	42
6	A class of robust consensus algorithms with predefined-time convergence under switching topologies. International Journal of Robust and Nonlinear Control, 2019, 29, 6179-6198.	2.1	41
7	A Hybrid Method for Online Trajectory Planning of Mobile Robots in Cluttered Environments. IEEE Robotics and Automation Letters, 2017, 2, 935-942.	3.3	36
8	On the Observability of Continuous-Time Switched Linear Systems Under Partially Unknown Inputs. IEEE Transactions on Automatic Control, 2012, 57, 732-738.	3.6	33
9	Observability of Switched Linear Systems. IEEE Transactions on Industrial Informatics, 2010, 6, 127-135.	7.2	32
10	Variable Structure Predefined-time Stabilization of Second-Order Systems. Asian Journal of Control, 2019, 21, 1179-1188.	1.9	32
11	Generating new classes of fixed-time stable systems with predefined upper bound for the settling time. International Journal of Control, 2022, 95, 2802-2814.	1.2	29
12	On predefined-time consensus protocols for dynamic networks. Journal of the Franklin Institute, 2020, 357, 11880-11899.	1.9	22
13	Predefined-Time Consensus of Nonlinear First-Order Systems Using a Time Base Generator. Mathematical Problems in Engineering, 2018, 2018, 1-11.	0.6	21
14	On finite-time and fixed-time consensus algorithms for dynamic networks switching among disconnected digraphs. International Journal of Control, 2020, 93, 2120-2134.	1.2	21
15	Autonomous navigation of MAVs in unknown cluttered environments. Journal of Field Robotics, 2021, 38, 307-326.	3.2	19
16	Predefined-time integral sliding mode control of second-order systems. International Journal of Systems Science, 2020, 51, 3425-3435.	3.7	18
17	Predefined-time tracking of a class of mechanical systems. , 2016, , .		17
18	Predefined-time stabilization of high order systems. , 2017, , .		12

#	ARTICLE	IF	CITATIONS
19	Observability of Switched Linear Systems: A geometric approach. , 2010, , .		11
20	Robust Leader-Following Consensus of High-Order Multi-Agent Systems in Prescribed Time. IEEE Access, 2020, 8, 195170-195183.	2.6	11
21	Autonomous and non-autonomous fixed-time leader-follower consensus for second-order multi-agent systems. Nonlinear Dynamics, 2020, 102, 2669-2686.	2.7	10
22	A predefined-time first-order exact differentiator based on time-varying gains. International Journal of Robust and Nonlinear Control, 2021, 31, 5510-5522.	2.1	10
23	Thermal modelling for temperature control in MPSoC's using Timed Continuous Petri Nets. , 2014, , .		9
24	On the distinguishability and observer design for single-input single-output continuous-time switched affine systems under bounded disturbances with application to chaos-based modulation. European Journal of Control, 2017, 34, 49-58.	1.6	9
25	Observer design for free choice Continuous timed Petri nets with infinite servers semantics. , 2011, , .		6
26	Sliding mode observer for Switched Linear Systems. , 2011, , .		6
27	Formation Tracking Control and Obstacle Avoidance of Unicycle-Type Robots Guaranteeing Continuous Velocities. Sensors, 2021, 21, 4374.	2.1	6
28	Observer synthesis for Linear Hybrid Systems with constrained discrete dynamics. Nonlinear Analysis: Hybrid Systems, 2017, 26, 254-273.	2.1	5
29	Thermal-aware Real-time Scheduling Using Timed Continuous Petri Nets. Transactions on Embedded Computing Systems, 2019, 18, 1-24.	2.1	5
30	Observer design for Linear Hybrid Systems with unknown inputs and Petri-net discrete dynamics. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100876.	2.1	5
31	Hierarchical task-based formation control and collision avoidance of UAVs in finite time. European Journal of Control, 2021, 60, 48-64.	1.6	5
32	Consistent Discretization of a Class of Predefined-Time Stable Systems. IFAC-PapersOnLine, 2020, 53, 628-633.	0.5	5
33	Dynamic Consensus With Prescribed Convergence Time for Multileader Formation Tracking. , 2022, 6, 3014-3019.		5
34	Priority Task-Based Formation Control and Obstacle Avoidance of Holonomic Agents with Continuous Control Inputs. IFAC-PapersOnLine, 2018, 51, 216-222.	0.5	4
35	Joint state-mode observer design for switched linear systems. , 2008, , .		3
36	On-line scheduling in multiprocessor systems based on continuous control using Timed Continuous Petri Nets. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	Modelling the behaviour of a class of dynamical systems with Continuous Petri Nets. , 2013, , .		2
38	Differentiator for Noisy Sampled Signals With Best Worst-Case Accuracy. , 2022, 6, 938-943.		2
39	A finite-time consensus algorithm with simple structure for fixed networks. Computacion Y Sistemas, 2018, 22, .	0.2	2
40	Eventual Generic Observability in Linear Hybrid Systems with discrete dynamic modeled by Petri nets**This work was supported by program Conacyt SNI.. IFAC-PapersOnLine, 2015, 48, 47-53.	0.5	1
41	Observability of Linear Hybrid Systems with unknown inputs and discrete dynamics modeled by Petri nets.. IFAC-PapersOnLine, 2018, 51, 163-168.	0.5	1
42	On the Observability and Observer Design in Switched Linear Systems. , 2019, , 73-118.		0