

Marco M Nicotra

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

650
citations

932766

10
h-index

676716

22
g-index

40
all docs

40
docs citations

40
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	Explicit Reference Governor for Constrained Nonlinear Systems. IEEE Transactions on Automatic Control, 2016, 61, 1379-1384.	3.6	91
2	The Explicit Reference Governor: A General Framework for the Closed-Form Control of Constrained Nonlinear Systems. IEEE Control Systems, 2018, 38, 89-107.	1.0	65
3	Nested saturation control of an UAV carrying a suspended load. , 2014, , .		54
4	Taut Cable Control of a Tethered UAV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3190-3195.	0.4	43
5	Time-distributed optimization for real-time model predictive control: Stability, robustness, and constraint satisfaction. Automatica, 2020, 117, 108973.	3.0	42
6	Explicit reference governor for linear systems. International Journal of Control, 2018, 91, 1415-1430.	1.2	37
7	Nonlinear control of a tethered UAV: The taut cable case. Automatica, 2017, 78, 174-184.	3.0	32
8	Embedding Constrained Model Predictive Control in a Continuous-Time Dynamic Feedback. IEEE Transactions on Automatic Control, 2019, 64, 1932-1946.	3.6	30
9	Real-time motion control of robotic manipulators for safe human-robot coexistence. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102223.	6.1	28
10	Explicit reference governor for continuous time nonlinear systems subject to convex constraints. , 2015, , .		22
11	A robust explicit reference governor for constrained control of Unmanned Aerial Vehicles. , 2016, , .		21
12	Spacecraft Attitude Control With Nonconvex Constraints: An Explicit Reference Governor Approach. IEEE Transactions on Automatic Control, 2020, 65, 3677-3684.	3.6	19
13	Control of Fully Actuated Unmanned Aerial Vehicles with Actuator Saturation * *This research has been funded by the Mandats d'Impulsion Scientifique "Optimization-free Control of Nonlinear Systems subject to Constraints" of the Fonds de la Recherche Scientifique (FNRS), Ref. F452617F.. IFAC-PapersOnLine, 2017, 50, 12715-12720.	0.5	17
14	SOC and SOH estimation for Li-ion batteries based on an equivalent hydraulic model. Part I: SOC and surface concentration estimation. , 2016, , .		15
15	Computationally-efficient constrained control of the state-of-charge of a Li-ion battery cell. , 2017, , .		12
16	An Explicit Reference Governor for the robust constrained control of nonlinear systems. , 2016, , .		10
17	Explicit Reference Governor for the Constrained Control of Linear Time-Delay Systems. IEEE Transactions on Automatic Control, 2019, 64, 2883-2889.	3.6	10
18	Constrained power reference control for wind turbines. Wind Energy, 2022, 25, 914-934.	1.9	10

#	ARTICLE	IF	CITATIONS
19	Inexact Newton–Kantorovich Methods for Constrained Nonlinear Model Predictive Control. IEEE Transactions on Automatic Control, 2019, 64, 3602-3615.	3.6	9
20	An Analysis of Closed-Loop Stability for Linear Model Predictive Control Based on Time-Distributed Optimization. IEEE Transactions on Automatic Control, 2022, 67, 2618-2625.	3.6	9
21	A Distributed Explicit Reference Governor for Constrained Control of Multiple UAVs—This work is supported by the FRIA scholarship grant CAT-AVIATOR.. IFAC-PapersOnLine, 2015, 48, 156-161.	0.5	7
22	Fast Reference Governor for Linear Systems. Journal of Guidance, Control, and Dynamics, 2017, 40, 461-465.	1.6	7
23	A Semismooth Predictor Corrector Method for Real-Time Constrained Parametric Optimization with Applications in Model Predictive Control. , 2018, , .		7
24	Invariant Set Distributed Explicit Reference Governors for Provably Safe On-Board Control of Nano-Quadrotor Swarms. Frontiers in Robotics and AI, 2021, 8, 663809.	2.0	6
25	Control of Euler-Lagrange systems subject to constraints: An Explicit Reference Governor approach. , 2015, , .		5
26	A Feasibility Governor for Enlarging the Region of Attraction of Linear Model Predictive Controllers. IEEE Transactions on Automatic Control, 2022, 67, 5501-5508.	3.6	5
27	Projection-operator-based Newton method for the trajectory optimization of closed quantum systems. Physical Review A, 2022, 105, .	1.0	5
28	Low-Complexity Fast Charging Strategies Based on Explicit Reference Governors for Li-Ion Battery Cells. IEEE Transactions on Control Systems Technology, 2021, 29, 1597-1608.	3.2	4
29	Efficient Trajectory Optimization for Constrained Spacecraft Attitude Maneuvers. Journal of Guidance, Control, and Dynamics, 2022, 45, 638-650.	1.6	4
30	Sufficient conditions for the stability of a class of second order systems. Systems and Control Letters, 2015, 84, 1-6.	1.3	3
31	Constrained Control of Robotic Manipulators Using the Explicit Reference Governor. , 2018, , .		3
32	A Fast Reference Governor for the Constrained Control of Linear Discrete-Time Systems with Parametric Uncertainties. , 2018, , .		3
33	Dynamically Embedded Model Predictive Control. , 2018, , .		3
34	Sensitivity-Based Warmstarting for Nonlinear Model Predictive Control With Polyhedral State and Control Constraints. IEEE Transactions on Automatic Control, 2020, 65, 4288-4294.	3.6	3
35	Explicit Reference Governor Toolbox (ERGT). , 2018, , .		2
36	Geodesic Approach for the Control of Tethered Quadrotors. Journal of Guidance, Control, and Dynamics, 2020, 43, 854-862.	1.6	2

#	ARTICLE	IF	CITATIONS
37	Feasibility Governor for Linear Model Predictive Control. , 2021, , .		2
38	Safe, Fast, and Efficient Distributed Receding Horizon Constrained Control of Aerial Robot Swarms. IEEE Robotics and Automation Letters, 2022, 7, 4173-4180.	3.3	2
39	Hybrid model for haptic lung palpation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1431-1436.	0.4	1
40	Stabilizing Formation Systems with Nonholonomic Agents. , 2020, , 1-1.		0