Gianni Bianchini

List of Publications by Year
in descending order

43 papers	613 citations	1040056 9 h-index	888059 17 g-index
43 all docs	43 docs citations	43 times ranked	639 citing authors

#	Article	IF	Citations
1	Sum-of-Norms Periodic Model Predictive Control for Space Rendezvous. IEEE Transactions on Control Systems Technology, 2022, 30, 1311-1318.	5.2	4
2	Variable-Horizon Guidance for Autonomous Rendezvous and Docking to a Tumbling Target. Journal of Guidance, Control, and Dynamics, 2022, 45, 846-858.	2.8	7
3	Linear Fractional Representations and L_∞-Stability Analysis of Continuous Piecewise Affine Systems. , 2021, 5, 229-234.		1
4	Estimation of photovoltaic generation forecasting models using limited information. Automatica, 2020, 113, 108688.	5.0	7
5	Orbit Control Techniques for Space Debris Removal Missions Using Electric Propulsion. Journal of Guidance, Control, and Dynamics, 2020, 43, 1259-1268.	2.8	16
6	Sum-Of-Norms MPC for Linear Periodic Systems with Application to Spacecraft Rendezvous. , 2020, , .		1
7	Sum-of-Norms Model Predictive Control for Spacecraft Maneuvering. , 2019, 3, 649-654.		16
8	An integrated model predictive control approach for optimal HVAC and energy storage operation in large-scale buildings. Applied Energy, 2019, 240, 327-340.	10.1	80
9	Transparency-Optimal Passivity Layer Design for Time-Domain Control of Multi-DoF Haptic-Enabled Teleoperation. , 2018, , .		1
10	Transparency-oriented passivity control design for haptic-enabled teleoperation systems with multiple degrees of freedom. , 2018, , .		3
11	Estimating PV forecasting models from power data. , 2018, , .		2
12	State Feedback Control in Equinoctial Variables for Orbit Phasing Applications. Journal of Guidance, Control, and Dynamics, 2018, 41, 1815-1822.	2.8	9
13	A class of globally stabilizing feedback controllers for the orbital rendezvous problem. International Journal of Robust and Nonlinear Control, 2017, 27, 4607-4621.	3.7	6
14	Model estimation for solar generation forecasting using cloud cover data. Solar Energy, 2017, 157, 1032-1046.	6.1	12
15	Optimal demand-response operation of heating and energy storage in smart buildings. , 2017, , .		0
16	An integrated MPC approach for demand-response heating and energy storage operation in smart buildings. , 2017, , .		6
17	Nonlinear orbit control with longitude tracking. , 2016, , .		3
18	Model estimation for PV generation forecasting using cloud cover information. , 2016, , .		3

#	Article	IF	Citations
19	Demand-response in building heating systems: A Model Predictive Control approach. Applied Energy, 2016, 168, 159-170.	10.1	135
20	Enhancing the Performance of Passive Teleoperation Systems via Cutaneous Feedback. IEEE Transactions on Haptics, 2015, 8, 397-409.	2.7	48
21	Receding horizon control for demand-response operation of building heating systems. , 2014, , .		5
22	Virtual coupling design for stability and transparency of multi-device haptic systems with delays. , 2013, , .		3
23	Model estimation of photovoltaic power generation using partial information. , 2013, , .		18
24	Convex relaxations for L2-gain analysis of piecewise affine/polynomial systems. International Journal of Control, 2013, 86, 1207-1213.	1.9	6
25	Estimation of a simple model of solar power generation using partial information. , 2013, , .		4
26	Improving transparency in passive teleoperation by combining cutaneous and kinesthetic force feedback. , 2013, , .		11
27	Passivity Analysis and Passification of Discrete-Time Hybrid Systems. IEEE Transactions on Automatic Control, 2008, 53, 1004-1009.	5.7	72
28	Stability Analysis and Design of Multi-dimensional Haptic Systems. , 2008, , .		4
29	L<inf>2</inf>-stability of hinging hyperplane models via integral quadratic constraints. , 2008, , .		0
30	An LMI framework for analysis and design of multi-dimensional haptic systems. , 2008, , .		6
31	Analysis and design of multi-contact haptic systems: An LMI approach. , 2007, , .		4
32	A Convex Lower Bound for the Real ${f l}_2$ Parametric Stability Margin of Linear Control Systems With Restricted Complexity Controllers. IEEE Transactions on Automatic Control, 2007, 52, 514-520.	5.7	3
33	Global>tex<$H_\infty $>/tex<Controllers for a Class of Nonlinear Systems. IEEE Transactions on Automatic Control, 2004, 49, 244-249.	5.7	17
34	Optimal controllers for spatially invariant systems with delayed communication requirements. Systems and Control Letters, 2003, 50, 347-361.	2.3	35
35	On the validity domain of H<inf>∞</inf> controllers under saturation constraints. , 2003, , .		0
36	Synthesis of robust strictly positive real discrete-time systems with l/sub 2/ parametric perturbations. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1221-1225.	0.1	9

#	Article	IF	Citations
37	Synthesis of robust strictly positive real systems with l/sub 2/ parametric uncertainty. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 438-450.	0.1	22
38	On H<inf>âˆž</inf> control of a class of nonlinear systems. , 2001, , .		1
39	Optimal decentralized controllers for spatially invariant systems. , 0, , .		23
40	On the synthesis of restricted complexity controllers for uncertain plants with ellipsoidal perturbations. , 0, , .		2
41	A note on computing polynomial filters for robust SPR of systems with polyhedral uncertainty. , 0, , .		0
42	Passivity analysis of discrete-time hybrid systems using piecewise polynomial storage functions. , 0, , .		5
43	Passivity-based Analysis and Design of Multi-Contact Haptic Systems via LMIs. , 0, , .		3