

Gianni Bianchini

List of Publications by Year in descending order

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43
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43
docs citations

43
times ranked

639
citing authors

#	ARTICLE	IF	CITATIONS
1	Demand-response in building heating systems: A Model Predictive Control approach. Applied Energy, 2016, 168, 159-170.	10.1	135
2	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
3	Passivity Analysis and Passification of Discrete-Time Hybrid Systems. IEEE Transactions on Automatic Control, 2008, 53, 1004-1009.	5.7	72
4	Enhancing the Performance of Passive Teleoperation Systems via Cutaneous Feedback. IEEE Transactions on Haptics, 2015, 8, 397-409.	2.7	48
5	Optimal controllers for spatially invariant systems with delayed communication requirements. Systems and Control Letters, 2003, 50, 347-361.	2.3	35
6	Optimal decentralized controllers for spatially invariant systems. , 0, , .		23
7	Synthesis of robust strictly positive real systems with l_2 parametric uncertainty. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2001, 48, 438-450.	0.1	22
8	Model estimation of photovoltaic power generation using partial information. , 2013, , .		18
9	Global H_∞ Controllers for a Class of Nonlinear Systems. IEEE Transactions on Automatic Control, 2004, 49, 244-249.	5.7	17
10	Sum-of-Norms Model Predictive Control for Spacecraft Maneuvering. , 2019, 3, 649-654.		16
11	Orbit Control Techniques for Space Debris Removal Missions Using Electric Propulsion. Journal of Guidance, Control, and Dynamics, 2020, 43, 1259-1268.	2.8	16
12	Model estimation for solar generation forecasting using cloud cover data. Solar Energy, 2017, 157, 1032-1046.	6.1	12
13	Improving transparency in passive teleoperation by combining cutaneous and kinesthetic force feedback. , 2013, , .		11
14	Synthesis of robust strictly positive real discrete-time systems with l_2 parametric perturbations. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1221-1225.	0.1	9
15	State Feedback Control in Equinoctial Variables for Orbit Phasing Applications. Journal of Guidance, Control, and Dynamics, 2018, 41, 1815-1822.	2.8	9
16	Estimation of photovoltaic generation forecasting models using limited information. Automatica, 2020, 113, 108688.	5.0	7
17	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
18	An LMI framework for analysis and design of multi-dimensional haptic systems. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
19	Convex relaxations for L ₂ -gain analysis of piecewise affine/polynomial systems. International Journal of Control, 2013, 86, 1207-1213.	1.9	6
20	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
21	An integrated MPC approach for demand-response heating and energy storage operation in smart buildings. , 2017, , .		6
22	Passivity analysis of discrete-time hybrid systems using piecewise polynomial storage functions. , 0, , .		5
23	Receding horizon control for demand-response operation of building heating systems. , 2014, , .		5
24	Analysis and design of multi-contact haptic systems: An LMI approach. , 2007, , .		4
25	Stability Analysis and Design of Multi-dimensional Haptic Systems. , 2008, , .		4
26	Estimation of a simple model of solar power generation using partial information. , 2013, , .		4
27	Sum-of-Norms Periodic Model Predictive Control for Space Rendezvous. IEEE Transactions on Control Systems Technology, 2022, 30, 1311-1318.	5.2	4
28	A Convex Lower Bound for the Real σ_{\min} Parametric Stability Margin of Linear Control Systems With Restricted Complexity Controllers. IEEE Transactions on Automatic Control, 2007, 52, 514-520.	5.7	3
29	Passivity-based Analysis and Design of Multi-Contact Haptic Systems via LMIs. , 0, , .		3
30	Virtual coupling design for stability and transparency of multi-device haptic systems with delays. , 2013, , .		3
31	Nonlinear orbit control with longitude tracking. , 2016, , .		3
32	Model estimation for PV generation forecasting using cloud cover information. , 2016, , .		3
33	Transparency-oriented passivity control design for haptic-enabled teleoperation systems with multiple degrees of freedom. , 2018, , .		3
34	On the synthesis of restricted complexity controllers for uncertain plants with ellipsoidal perturbations. , 0, , .		2
35	Estimating PV forecasting models from power data. , 2018, , .		2
36	On H^{∞} control of a class of nonlinear systems. , 2001, , .		1

#	ARTICLE	IF	CITATIONS
37	Transparency-Optimal Passivity Layer Design for Time-Domain Control of Multi-DoF Haptic-Enabled Teleoperation. , 2018, , .		1
38	Linear Fractional Representations and L_2 -Stability Analysis of Continuous Piecewise Affine Systems. , 2021, 5, 229-234.		1
39	Sum-Of-Norms MPC for Linear Periodic Systems with Application to Spacecraft Rendezvous. , 2020, , .		1
40	A note on computing polynomial filters for robust SPR of systems with polyhedral uncertainty. , 0, , .		0
41	L_2 -stability of hinging hyperplane models via integral quadratic constraints. , 2008, , .		0
42	Optimal demand-response operation of heating and energy storage in smart buildings. , 2017, , .		0
43	On the validity domain of H_∞ controllers under saturation constraints. , 2003, , .		0