Gionata Cimini

List of Publications by Year
in descending order

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42	567	933447	940533
papers	citations	10	16
		h-index	g-index

42	42	42	475
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Variable Elimination in Model Predictive Control Based on K-SVD and QR Factorization. IEEE Transactions on Automatic Control, 2023, 68, 782-797.	5.7	2
2	A Plant Characterization Unit for Closed Life Support: Hardware and Control Design for Atmospheric Systems. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	5
3	Embedded Model Predictive Control With Certified Real-Time Optimization for Synchronous Motors. IEEE Transactions on Control Systems Technology, 2021, 29, 893-900.	5.2	56
4	Reference governor for switching converters with power factor correction. , 2021, , .		2
5	Model predictive control for pre-compensated power converters: Application to current mode control. Journal of the Franklin Institute, 2019, 356, 2015-2030.	3.4	11
6	Complexity and convergence certification of a block principal pivoting method for box-constrained quadratic programs. Automatica, 2019, 100, 29-37.	5.0	21
7	Computationally efficient model predictive control for a class of linear parameterâ€varying systems. IET Control Theory and Applications, 2018, 12, 1384-1392.	2.1	22
8	A unified observer for robust sensorless control of DCâ€“DC converters. Control Engineering Practice, 2017, 61, 21-27.	5.5	29
9	Exact Complexity Certification of Active-Set Methods for Quadratic Programming. IEEE Transactions on Automatic Control, 2017, 62, 6094-6109.	5.7	60
10	Model predictive control for preâ€compensated voltage mode controlled DCâ€“DC converters. IET Control Theory and Applications, 2017, 11, 2514-2520.	2.1	47
11	A fast model predictive control algorithm for linear parameter varying systems with right invertible input matrix. , 2017, , .		10
12	A QR-code localization system for mobile robots: Application to smart wheelchairs. , 2017, , .		11
13	Model Predictive Control for Real-time Position Tracking of a Catenary-free Tram. IFAC-PapersOnLine, 2017, 50, 1000-1005.	0.9	8
14	Assessing Fuel Economy From Automated Driving: Influence of Preview and Velocity Constraints. , 2016, , .		19
15	Model predictive control for the reference regulation of current mode controlled DC-DC converters. , 2016, , .		9
16	Indoor Thermal Comfort Control Based onÂFuzzy Logic. Studies in Fuzziness and Soft Computing, 2016, , 829-850.	0.8	1
17	rapros: A ROS Package for Rapid Prototyping. Studies in Computational Intelligence, 2016, , 491-508.	0.9	4
18	Indoor thermal comfort control through fuzzy logic PMV optimization. , 2015, , .		13

#	Article	IF	Citations
19	On the design of observers robust to load variations for synchronous converters. , 2015, , .		2
20	Bayes error based feature selection: An electric motors fault detection case study. , 2015, , .		9
21	A sliding mode observer for the load resistance estimation in a boost converter. , 2015, , .		1
22	A novel LDA-based approach for motor bearing fault detection. , 2015, , .		22
23	Humidex based multi room thermal comfort regulation via fuzzy logic. , 2015, , .		1
24	Online model predictive torque control for Permanent Magnet Synchronous Motors. , 2015, , .		43
25	A Smart Lighting System for Visual Comfort and Energy Savings in Industrial and Domestic Use. Electric Power Components and Systems, 2015, 43, 1696-1706.	1.8	27
26	Synchronous buck converter control via robust periodic pole assignment. , 2014, , .		5
27	An interoperable framework for home automation design, testing and control. , 2014, , .		5
28	Fram evaluation as unified memory for convex optimization algorithms. , 2014, , .		0
29	Robust current observer design for DC-DC converters. , 2014, , .		6
30	A Rapid Prototyping Scenario for Power Factor Control in Permanent Magnet Synchronous Motor Drives: Control Solutions for Interleaved Boost Converters. Electric Power Components and Systems, 2014, 42, 639-649.	1.8	7
31	Development of a smart LED lighting system: Rapid prototyping scenario. , 2014, , .		1
32	Sensorless power factor control for mixed conduction mode boost converter using passivityâ€based control. IET Power Electronics, 2014, 7, 2988-2995.	2.1	20
33	Current sensorless solution for PFC boost converter operating both in DCM and CCM. , 2013, , .		10
34	Supervisory control of PV-battery systems by online tuned neural networks. , 2013, , .		11
35	Explicit sensorless model predictive control of synchronous buck converter. , 2013, , .		8
36	Sensorless passivity-based control for Mixed Conduction Mode boost converter with power factor correction. , 2013, , .		2

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37	PMSM control with power factor correction: Rapid prototyping scenario. , 2013, , .		8
38	Control of variable speed wind energy conversion systems by a discrete-time sliding mode approach. , 2013, , .		12
39	Current sensorless solutions for PFC of boost converters with passivity-based and sliding mode control. , 2013, , .		9
40	Model predictive control solution for Permanent Magnet Synchronous Motors. , 2013, , .		11
41	A passivity-based solution for CCM-DCM boost converter Power Factor Control. , 2013, , .		6
42	Passivity-Based PFC for Interleaved Boost Converter of PMSM drives. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 128-133.	0.4	11