Manuel Velasco

List of Publications by Year in descending order

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79 papers	1,095 citations	471061 17 h-index	500791 28 g-index
80 all docs	80 docs citations	80 times ranked	867 citing authors

#	Article	IF	Citations
1	Control Scheme for Negative-Sequence Voltage Compensation and Current Sharing in Inverter-Based Grid-Connected Microgrids. IEEE Transactions on Power Electronics, 2022, 37, 6556-6567.	5.4	4
2	Complex Power Sharing Is Not Complex. IEEE Transactions on Smart Grid, 2022, 13, 1762-1773.	6.2	3
3	Collaborative Voltage Unbalance Compensation in Islanded AC Microgrids With Grid-Forming Inverters. IEEE Transactions on Power Electronics, 2022, 37, 10499-10513.	5.4	15
4	Collaborative Voltage Unbalance Elimination in Grid-Connected AC Microgrids With Grid-Feeding Inverters. IEEE Transactions on Power Electronics, 2021, 36, 7189-7201.	5.4	12
5	Positive-Sequence Voltage Control, Full Negative-Sequence Cancellation, and Current Limitation for Static Compensators. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6613-6623.	3.7	16
6	A distributed control for accurate activeâ€power sharing in islanded microgrids subject to clock drifts. IET Power Electronics, 2021, 14, 518-530.	1.5	1
7	Effects of clock deviations on the performance of microgrids based on virtual synchronous generators. IET Power Electronics, 2021, 14, 2337-2349.	1.5	0
8	Machine-Learning-Based Condition Assessment of Gas Turbinesâ€”A Review. Energies, 2021, 14, 8468.	1.6	13
9	Active Power Sharing and Frequency Regulation in Droop-Free Control for Islanded Microgrids Under Electrical and Communication Failures. IEEE Transactions on Industrial Electronics, 2020, 67, 6461-6472.	5.2	45
10	Enabling Grid-Feeding Converters With a Dissonant-Resonant Controller for Negative-Sequence Voltage Elimination. IEEE Transactions on Power Electronics, 2020, 35, 4342-4352.	5.4	5
11	Droopâ€free hierarchical control strategy for inverterâ€based AC microgrids. IET Power Electronics, 2020, 13, 1403-1415.	1.5	14
12	Negativeâ€sequence voltage elimination for distributed generators in gridâ€feeding operation mode. IET Power Electronics, 2020, 13, 1764-1774.	1.5	6
13	Local Secondary Control for Inverter-Based Islanded Microgrids With Accurate Active Power Sharing Under High-Load Conditions. IEEE Transactions on Industrial Electronics, 2019, 66, 2529-2539.	5.2	19
14	Analysis of Consensus-Based Islanded Microgrids Subject to Unexpected Electrical and Communication Partitions. IEEE Transactions on Smart Grid, 2019, 10, 5125-5135.	6.2	12
15	Local Frequency Restoration for Droop-Controlled Parallel Inverters in Islanded Microgrids. IEEE Transactions on Energy Conversion, 2019, 34, 1232-1241.	3.7	22
16	Analysis of the Effect of Clock Drifts on Frequency Regulation and Power Sharing in Inverter-Based Islanded Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 10363-10379.	5.4	20
17	Impact of Clock Drifts on Communication-Free Secondary Control Schemes for Inverter-Based Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2018, 65, 4739-4749.	5.2	29
18	Secondary Switched Control With no Communications for Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2017, 64, 8534-8545.	5.2	77

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19	Consensus for active power sharing and frequency restoration in islanded microgrids subject to drifting clocks. , 2017, , .		5
20	Analysis of consensus-based active power sharing with respect to network topology in islanded microgrids. , 2017, , .		0
21	Control strategy to maximize the power capability of PV-based industrial microgrids during voltage sags. , 2017, , .		0
22	Impact of clock drifts on active power sharing and frequency regulation in distributed-averaging secondary control for islanded microgrids. , 2017, , .		1
23	Reactive power control for loss minimization in low-voltage distributed generation systems. , 2016, , .		4
24	Synchronization of local integral controllers for frequency restoration in islanded microgrids. , 2016, , .		8
25	Communication-aware consensus for frequency restoration in islanded MicroGrids. , 2016, , .		2
26	Performance Evaluation of Secondary Control Policies with Respect to Digital Communications Properties in Inverter-based Islanded Microgrids. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	24
27	Non-linear control of a power-factor-correction rectifier with fast dynamic response. , 2016, , .		1
28	XBRL formula specification in the multidimensional data model. Information Systems, 2016, 57, 20-37.	2.4	3
29	Comparative study of reactive power control methods for photovoltaic inverters in lowâ€voltage grids. IET Renewable Power Generation, 2016, 10, 310-318.	1.7	42
30	Maximizing positive sequence voltage support in inductive-resistive grids for distributed generation inverters during voltage sags. , 2016, , .		13
31	Optimal-sampling-inspired Self-Triggered control. , 2015, , .		6
32	Performance analysis of frequency restoration for parallel voltage source inverters connected with a realistic communication channel. , 2015, , .		3
33	On the optimal reactive power control for grid-connected photovoltaic distributed generation systems. , 2015, , .		7
34	Toward new controller design paradigms in networked control systems. , 2014, , .		0
35	Internet-based control of a ball-and-plate system: A case study of modeling and automatic code generation for networked control systems. , 2014, , .		1
36	LTI ODE-valued neural networks. Applied Intelligence, 2014, 41, 594-605.	3.3	1

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37	Resource and performance trade-offs in real-time embedded control systems. Real-Time Systems, 2013, 49, 267-307.	1.1	8
38	Distributed reactive power control methods to avoid voltage rise in grid-connected photovoltaic power generation systems. , 2013, , .		3
39	A process reference model for managing living labs for ICT innovation: A proposal based on ISO/IEC 15504. Computer Standards and Interfaces, 2013, 36, 33-41.	3.8	15
40	Mixing local and distributed reactive power control for balancing inverters' effort in grid-connected photovoltaic systems. , 2013, , .		0
41	An Alternative Discrete-Time Model for Networked Control Systems with time delay less than the sampling period. , 2013, , .		3
42	Fuzzy observer based Fault Detection for Network Control Systems with Periodic Actuation Tasks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1035-1040.	0.4	1
43	On the use of communication infrastructure in distributed power generation: A preliminary case study. , 2012, , .		1
44	Hands-on course in networked control systems. , 2012, , .		1
45	Lowering traffic without sacrificing performance in Networked Control Systems. , 2011, , .		2
46	Optimal Online Sampling Period Assignment: Theory and Experiments. IEEE Transactions on Control Systems Technology, 2011, 19, 902-910.	3.2	54
47	Simulation study of a remote wireless path tracking control with delay estimation for an autonomous guided vehicle. International Journal of Advanced Manufacturing Technology, 2011, 52, 751-761.	1.5	25
48	Qualitative analysis of a one-step finite-horizon boundary for event-driven controllers. , 2011, , .		17
49	Networked sliding mode control of the double integrator system using the event-driven self-triggered approach. , 2011, , .		4
50	One-step finite horizon boundary with varying control gain for event-driven Networked Control Systems. , 2011, , .		12
51	AN OCL-BASED APPROACH TO DERIVE CONSTRAINT TEST CASES FOR DATABASE APPLICATIONS. International Journal of Software Engineering and Knowledge Engineering, 2011, 21, 621-645.	0.6	4
52	Efficient Utilization of Bus Idle Times in CAN-based Networked Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 121-126.	0.4	0
53	Integration of strategic management, process improvement and quantitative measurement for managing the competitiveness of software engineering organizations. Software Quality Journal, 2010, 18, 341-359.	1.4	14
54	Experimental evaluation of slack management in real-time control systems: Coordinated vs. self-triggered approach. Journal of Systems Architecture, 2010, 56, 63-74.	2.5	8

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55	Synchronizing sampling and actuation in the absence of global time in Networked Control Systems. , 2010, , .		4
56	Runtime Allocation of Optional Control Jobs to a Set of CAN-Based Networked Control Systems. IEEE Transactions on Industrial Informatics, 2010, 6, 503-520.	7.2	41
57	Design of an Embedded Control System Laboratory Experiment. IEEE Transactions on Industrial Electronics, 2010, 57, 3297-3307.	5.2	27
58	Self-triggered networked control systems: An experimental case study. , 2010, , .		29
59	Embedding Kalman techniques in the one-shot task model when non-uniform samples are corrupted by noise. , 2010, , .		1
60	Minimizing control cost in resource-constrained control systems: From feedback scheduling to event-driven control. , 2010, , .		2
61	Preliminary approach to Lyapunov sampling in CAN-based networked control systems. , 2009, , .		3
62	On Lyapunov sampling for event-driven controllers. , 2009, , .		48
63	Schedulability analysis for CAN-based networked control systems with dynamic bandwidth management. , 2009, , .		3
64	Draco: Efficient Resource Management for Resource-Constrained Control Tasks. IEEE Transactions on Computers, 2009, 58, 90-105.	2.4	33
65	The Optimal Boundary and Regulator Design Problem for Event-Driven Controllers. Lecture Notes in Computer Science, 2009, , 441-444.	1.0	8
66	Equilibrium sampling interval sequences for event-driven controllers. , 2009, , .		6
67	Ten factors that impede improvement of verification and validation processes in software intensive organizations. Software Process Improvement and Practice, 2008, 13, 335-343.	1.1	8
68	Performing Flexible Control on Low-Cost Microcontrollers Using a Minimal Real-Time Kernel. IEEE Transactions on Industrial Informatics, 2008, 4, 125-133.	7.2	23
69	Control-Driven Tasks: Modeling and Analysis. , 2008, , .		42
70	The One-Shot Task Model for Robust Real-Time Embedded Control Systems. IEEE Transactions on Industrial Informatics, 2008, 4, 164-174.	7.2	35
71	Analysis and design of networked control loops with synchronization at the actuation instants. , 2008, , .		8
72	Control Performance Evaluation of Selected Methods of Feedback Scheduling of Real-time Control Tasks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 10668-10673.	0.4	9

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73	On the Timing of Discrete Events in Event-Driven Control Systems. Lecture Notes in Computer Science, 2008, , 670-673.	1.0	6
74	Quality-of-Control Management in Overloaded Real-Time Systems. IEEE Transactions on Computers, 2007, 56, 253-266.	2.4	40
75	Toward Flexible Scheduling of Real-Time Control Tasks: Reviewing Basic Control Models. , 2007, , 710-713.		10
76	A CAN Application Profile for Control Optimization in Networked Embedded Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	13
77	Automatic generation of domain representations using thesaurus structures. Journal of the Association for Information Science and Technology, 2004, 55, 846-858.	2.6	3
78	Managing Quality-of-Control in Network-Based Control Systems by Controller and Message Scheduling Co-Design. IEEE Transactions on Industrial Electronics, 2004, 51, 1159-1167.	5.2	87
79	Analyzing Wavelets Components to Perform Face Recognition. Lecture Notes in Computer Science, 2001, , 262-270.	1.0	0