Cesar A Silva

List of Publications by Year
in descending order

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72 papers	5,876 citations	201575 27 h-index	276775 41 g-index
72 all docs	72 docs citations	72 times ranked	3429 citing authors

#	Article	IF	Citations
1	Decentralized Model-Based Predictive Control for DER Units Integration in AC Microgrids Subject to Operational and Safety Constraints. IEEE Transactions on Power Delivery, 2021, 36, 2479-2489.	2.9	6
2	Direct Predictive Current-Error Vector Control for a Direct Matrix Converter. IEEE Transactions on Power Electronics, 2019, 34, 1925-1935.	5.4	25
3	State Feedback Control with Full Disturbance Compensation for an LC filtered Grid-forming Converter. , 2019, , .		1
4	Decentralized Unified Control for Inverter-Based AC Microgrids Subject to Voltage Constraints. IEEE Access, 2019, 7, 157318-157329.	2.6	10
5	Sensorless Low Switching Frequency Explicit Model Predictive Control of Induction Machines Fed by Neutral Point Clamped Inverter. IEEE Transactions on Industrial Electronics, 2019, 66, 9122-9128.	5.2	13
6	Linear State-Feedback Primary Control for Enhanced Dynamic Response of AC Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3149-3161.	6.2	35
7	Modulated Model-Predictive Control With Optimized Overmodulation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 404-413.	3.7	72
8	MPC Using Modulated Optimal Voltage Vector for Voltage Source Inverter with LC Output Filter. , 2018, , .		4
9	Predictive Speed Control with Reduced Commutations and High Dynamic Responses. , 2018, , .		1
10	Novel anti-windup scheme for stator flux control in surface permanent magnet machines. , 2017, , .		2
11	Sensorless control of a SynRM for the whole speed range based on a nonlinear observability analysis. , 2017, , .		5
12	Control of an islanded power-electronic converter as an oscillator. , 2016, , .		3
13	Cascaded model predictive speed control of a permanent magnet synchronous machine. , 2016, , .		11
14	Full Predictive Cascaded Speed and Current Control of an Induction Machine. IEEE Transactions on Energy Conversion, 2016, 31, 1059-1067.	3.7	58
15	Revisiting the EKF concept for low speed sensorless control of cage induction motors. , 2016, , .		3
16	MPC Implementation of a Quasi-Time-Optimal Speed Control for a PMSM Drive, With Inner Modulated-FS-MPC Torque Control. IEEE Transactions on Industrial Electronics, 2016, 63, 3897-3905.	5.2	85
17	Resonant filtering technique to detect symmetric components under unbalanced conditions for control of Active Front End converters. , 2015, , .		1
18	Current reference strategy with explicit negative sequence component for voltage equalization contribution during asymmetric fault ride through. International Transactions on Electrical Energy Systems, 2015, 25, 3449-3471.	1.2	12

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19	Predictive Torque Control of a Multidrive System Fed by a Dual Indirect Matrix Converter. IEEE Transactions on Industrial Electronics, 2015, 62, 2731-2741.	5.2	60
20	An Operating Condition-Based Scheme to Alternate Between Control Strategies for Improved Steady-State and Transient Behavior. IEEE Transactions on Industrial Informatics, 2015, 11, 1246-1254.	7.2	8
21	Control of a Four-Leg Converter for the Operation of a DFIG Feeding Stand-Alone Unbalanced Loads. IEEE Transactions on Industrial Electronics, 2015, 62, 4630-4640.	5.2	36
22	Cascaded predictive speed control. , 2014, , .		5
23	Comments on â€œPredictive Torque Control of Induction Machines Based on State-Space Modelsâ€• IEEE Transactions on Industrial Electronics, 2014, 61, 1635-1638.	5.2	22
24	Low switching frequency explicit model predictive control of induction machines fed by an NPC. , 2014, , .		4
25	Predictive Controller for a Three-Phase/Single-Phase Voltage Source Converter Cell. IEEE Transactions on Industrial Informatics, 2014, 10, 1878-1889.	7.2	36
26	Improved steady state and transient behavior of static power converters by means of an operating mode identifier algorithm. , 2013, , .		0
27	Space Vector PWM Method for Five-Phase Two-Level VSI With Minimum Harmonic Injection in the Overmodulation Region. IEEE Transactions on Industrial Electronics, 2013, 60, 2042-2053.	5.2	69
28	Predictive Torque and Flux Control Without Weighting Factors. IEEE Transactions on Industrial Electronics, 2013, 60, 681-690.	5.2	346
29	Phase-Disposition PWM Implementation for a Hybrid Multicell Converter. IEEE Transactions on Industrial Electronics, 2013, 60, 1936-1942.	5.2	20
30	Low frequency sensorless Field Oriented Control of an induction machine fed by a direct matrix converter. , 2013, , .		2
31	Noise shaping modulation and dynamic current control of NPC inverters for low switching frequency applications. , 2013, , .		2
32	Delay Compensation in Model Predictive Current Control of a Three-Phase Inverter. IEEE Transactions on Industrial Electronics, 2012, 59, 1323-1325.	5.2	896
33	High-Performance Control Strategies for Electrical Drives: An Experimental Assessment. IEEE Transactions on Industrial Electronics, 2012, 59, 812-820.	5.2	408
34	Predictive Speed Control of a Two-Mass System Driven by a Permanent Magnet Synchronous Motor. IEEE Transactions on Industrial Electronics, 2012, 59, 2840-2848.	5.2	124
35	Predictive current control of a doubly fed inductor generator (DFIG) for fast power reference tracking. , 2012, , .		5
36	State and Resistance Estimation in Sensorless FOC Induction Motor Drive Using a Reduced Order Unscented Kalman Filter. , 2012, , .		4

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37	Finite States Model Predictive Control for Shunt Active Filters. , 2011, , .		22
38	Implementation and Control of a Hybrid Multilevel Converter With Floating DC Links for Current Waveform Improvement. IEEE Transactions on Industrial Electronics, 2011, 58, 2304-2312.	5.2	84
39	On sampled-data models for model predictive control. , 2010, , .		43
40	A novel modulation technique for a multilevel hybrid converter with floating capacitors. , 2010, , .		7
41	Predictive Control of Active Filtering for Industrial Mining Installations. , 2009, , .		1
42	Control of an induction machine fed by a Cascade Multicell converter under fault. , 2009, , .		3
43	Rotor flux vector control of DFIG without currents rotor sensor. , 2009, , .		3
44	Predictive speed control of a synchronous permanent magnet motor. , 2009, , .		41
45	Speed control of a permanent magnet synchronous motor using predictive current control. , 2009, , .		42
46	Hybrid multilevel inverter drive with synchronous modulation and current waveform improvement. , 2009, , .		6
47	Control Strategies Based on Symmetrical Components for Grid-Connected Converters Under Voltage Dips. IEEE Transactions on Industrial Electronics, 2009, 56, 2162-2173.	5.2	312
48	Indirect sensorless speed control of a PMSG for wind application. , 2009, , .		12
49	Control of an hybrid multilevel inverter for current waveform improvement. , 2008, , .		10
50	Predictive Current Control Strategy With Imposed Load Current Spectrum. IEEE Transactions on Power Electronics, 2008, 23, 612-618.	5.4	342
51	Current control in matrix converters connected to polluted AC voltage supplies. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	21
52	Predictive Current Control of a Voltage Source Inverter. IEEE Transactions on Industrial Electronics, 2007, 54, 495-503.	5.2	1,269
53	Sensorless Vector Control of Induction Machine with Low Speed Capability using MRAS with Drift and Inverter Nonlinearities Compensation. , 2007, , .		3
54	Zero-Steady-State-Error Input-Current Controller for Regenerative Multilevel Converters Based on Single-Phase Cells. IEEE Transactions on Industrial Electronics, 2007, 54, 733-740.	5.2	82

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55	High-Performance Torque and Flux Control for Multilevel Inverter Fed Induction Motors. IEEE Transactions on Power Electronics, 2007, 22, 2116-2123.	5.4	177
56	Control of Neutral-Point-Clamped Converter in Distributed Power Generation to fulfil Low Voltage Ride-Through Requirements. , 2007, , .		1
57	Comparison of Control Strategies to Meet Low Voltage Ride-Through Requirements in Distributed Power Generation Systems. , 2007, , .		9
58	High performance torque and flux control for multilevel inverter fed induction motors. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	14
59	High Dinamic Control of a PWM Rectifier using Harmonic Elimination. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	13
60	Resonances and overvoltages in a medium-voltage fan motor drive with long cables in an underground mine. IEEE Transactions on Industry Applications, 2006, 42, 856-863.	3.3	53
61	Hybrid rotor position observer for wide speed-range sensorless PM motor drives including zero speed. IEEE Transactions on Industrial Electronics, 2006, 53, 373-378.	5.2	192
62	Use of a matrix converter to enhance the sensorless control of a surface-mount permanent-magnet AC motor at zero and low frequency. IEEE Transactions on Industrial Electronics, 2006, 53, 440-449.	5.2	45
63	Torque Regulation by Means of Stator Flux Control for Induction Machines. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4
64	Predictive Current Control Strategy with Imposed Load Current Spectrum. , 2006, , .		2
65	Large Current Rectifiers: State of the Art and Future Trends. IEEE Transactions on Industrial Electronics, 2005, 52, 738-746.	5.2	148
66	Hysteresis current control of a vector controlled induction motor and DTC: an assessment. International Journal of Electronics, 2004, 91, 639-651.	0.9	7
67	A New Modulation Method to Reduce Common-Mode Voltages in Multilevel Inverters. IEEE Transactions on Industrial Electronics, 2004, 51, 834-839.	5.2	128
68	Predictive control of three-phase inverter. Electronics Letters, 2004, 40, 561.	0.5	89
69	Simple direct torque control of induction machine using space vector modulation. Electronics Letters, 2004, 40, 412.	0.5	22
70	A high-performance vector control of an 11-level inverter. IEEE Transactions on Industrial Electronics, 2003, 50, 80-85.	5.2	43
71	High-voltage multilevel converter with regeneration capability. IEEE Transactions on Industrial Electronics, 2002, 49, 839-846.	5.2	77
72	A vector control technique for medium-voltage multilevel inverters. IEEE Transactions on Industrial Electronics, 2002, 49, 882-888.	5.2	155