

Stefan Almqvist

List of Publications by Year in descending order

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24
papers

546
citations

933410

10
h-index

1058452

14
g-index

24
all docs

24
docs citations

24
times ranked

513
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Hybrid Control Techniques for Buck and Boost DC-DC Converters. IEEE Transactions on Control Systems Technology, 2010, 18, 1126-1145.	5.2	180
2	Sampled Data Model Predictive Control of a Voltage Source Inverter for Reduced Harmonic Distortion. IEEE Transactions on Control Systems Technology, 2013, 21, 1907-1915.	5.2	51
3	Model Predictive Control in the Multi-Megawatt Range. IEEE Transactions on Industrial Electronics, 2016, 63, 4641-4648.	7.9	42
4	Dynamic Phasor Model Predictive Control of Switched Mode Power Converters. IEEE Transactions on Control Systems Technology, 2015, 23, 349-356.	5.2	40
5	Stability Analysis of a Class of PWM Systems. IEEE Transactions on Automatic Control, 2007, 52, 1072-1078.	5.7	36
6	Robust tracking with H^∞ performance for PWM systems. Automatica, 2009, 45, 1808-1818.	5.0	36
7	Harmonic analysis of pulse-width modulated systems. Automatica, 2009, 45, 851-862.	5.0	31
8	Dynamic Phasor Analysis of Periodic Systems. IEEE Transactions on Automatic Control, 2009, 54, 2007-2012.	5.7	26
9	Model Predictive Control of Load Commutated Inverter-fed Synchronous Machines. IEEE Transactions on Power Electronics, 2015, , 1-1.	7.9	23
10	LQ optimal control for a class of pulse width modulated systems. Automatica, 2007, 43, 1009-1020.	5.0	20
11	Piecewise affine modeling and control of a step-up DC-DC converter. , 2010, , .		15
12	Nonlinear model predictive torque control of a load commutated inverter and synchronous machine. , 2014, , .		10
13	Survey of industrial applications of embedded model predictive control. , 2016, , .		10
14	Efficient online solution of multi-parametric mixed-integer quadratic problems. International Journal of Control, 2013, 86, 1386-1396.	1.9	8
15	Predictive Converter Control: Hidden Convexity and Real-Time Quadratically Constrained Optimization. IEEE Transactions on Control Systems Technology, 2021, 29, 403-410.	5.2	4
16	Robust tracking control of pulse-width modulated systems through multi-frequency averaging. , 2012, , .		3
17	A new optimal PWM strategy applied to single phase inverters with variable DC voltage. , 2010, , .		2
18	Dynamic Phasor Analysis of Pulse-Modulated Systems. SIAM Journal on Control and Optimization, 2012, 50, 1110-1138.	2.1	2

#	ARTICLE	IF	CITATIONS
19	Model Predictive Control. Advances in Industrial Control, 2012, , 321-354.	0.5	2
20	Model predictive PWM of a single phase inverter: A nonlinear transformation approach. , 2015, , .		2
21	Voltage source converter MPC with optimized pulse patterns and minimization of integrated squared tracking error. , 2017, , .		2
22	Necessary and sufficient conditions for quasiconvexity of a class of mixed-integer quadratic programs with applications in hybrid MPC. , 2011, , .		1
23	Harmonic Analysis of Pulse-Width Modulated Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7987-7993.	0.4	0
24	Model Based Tuning of Proportional Resonant Controllers for Voltage Source Inverters. , 2018, , .		0