

# Marc Bodson

## List of Publications by Citations

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141  
papers

3,972  
citations

31  
h-index

60  
g-index

158  
ext. papers

5,016  
ext. citations

3.8  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
141	Adaptive algorithms for the rejection of sinusoidal disturbances with unknown frequency. <i>Automatica</i> , <b>1997</b> , 33, 2213-2221	5.7	389
140	Evaluation of Optimization Methods for Control Allocation. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2002</b> , 25, 703-711	2.1	361
139	Multivariable adaptive algorithms for reconfigurable flight control. <i>IEEE Transactions on Control Systems Technology</i> , <b>1997</b> , 5, 217-229	4.8	313
138	. <i>IEEE Transactions on Control Systems Technology</i> , <b>1993</b> , 1, 5-14	4.8	198
137	. <i>IEEE Transactions on Automatic Control</i> , <b>1994</b> , 39, 1939-1944	5.9	173
136	. <i>IEEE Transactions on Industry Applications</i> , <b>1994</b> , 30, 746-759	4.3	172
135	. <i>IEEE Control Systems</i> , <b>1994</b> , 14, 25-33	2.9	134
134	Constrained quadratic programming techniques for control allocation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2006</b> , 14, 91-98	4.8	127
133	Active noise control for periodic disturbances. <i>IEEE Transactions on Control Systems Technology</i> , <b>2001</b> , 9, 200-205	4.8	91
132	. <i>IEEE Transactions on Magnetics</i> , <b>1995</b> , 31, 1031-1036	2	81
131	Rejection of periodic disturbances of unknown and time-varying frequency. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2005</b> , 19, 67-88	2.8	80
130	Development and Flight Testing of a Parameter Identification Algorithm for Reconfigurable Control. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1998</b> , 21, 948-956	2.1	73
129	Adaptive Algorithms for the Rejection of Sinusoidal Disturbances Acting on Unknown Plants. <i>IEEE Transactions on Control Systems Technology</i> , <b>2010</b> , 18, 822-836	4.8	67
128	A nonlinear least-squares approach for identification of the induction motor parameters. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 1622-1628	5.9	61
127	Interior-Point Algorithms for Control Allocation. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2005</b> , 28, 471-480	2.1	56
126	A magnitude/phase-locked loop approach to parameter estimation of periodic signals. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 612-618	5.9	55
125	A systematic approach to selecting flux references for torque maximization in induction motors. <i>IEEE Transactions on Control Systems Technology</i> , <b>1995</b> , 3, 388-397	4.8	55

124	Design of adaptive feedforward algorithms using internal model equivalence. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>1995</b> , 9, 199-212	2.8	54
123	Differential-geometric methods for control of electric motors. <i>International Journal of Robust and Nonlinear Control</i> , <b>1998</b> , 8, 923-954	3.6	52
122	Experimental Results of Adaptive Periodic Disturbance Cancellation in a High Performance Magnetic Disk Drive <b>1993</b> ,		52
121	Real time estimation of ship motions using Kalman filtering techniques. <i>IEEE Journal of Oceanic Engineering</i> , <b>1983</b> , 8, 9-20	3.3	51
120	An Adaptive Algorithm for the Tuning of Two Input Shaping Methods. <i>Automatica</i> , <b>1998</b> , 34, 771-776	5.7	50
119	Analysis and Implementation of an Adaptive Algorithm for the Rejection of Multiple Sinusoidal Disturbances. <i>IEEE Transactions on Control Systems Technology</i> , <b>2009</b> , 17, 40-50	4.8	47
118	. <i>IEEE Transactions on Control Systems Technology</i> , <b>1993</b> , 1, 270-279	4.8	45
117	. <i>IEEE Transactions on Automatic Control</i> , <b>1993</b> , 38, 1662-1666	5.9	44
116	. <i>IEEE Transactions on Industrial Electronics</i> , <b>1995</b> , 42, 337-343	8.9	43
115	Experimental Results of Adaptive Periodic Disturbance Cancellation in a High Performance Magnetic Disk Drive. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1996</b> , 118, 416-424	1.6	41
114	An Online Rotor Time Constant Estimator for the Induction Machine. <i>IEEE Transactions on Control Systems Technology</i> , <b>2007</b> , 15, 339-348	4.8	40
113	Command Limiting in Reconfigurable Flight Control. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1998</b> , 21, 639-646	2.1	38
112	High-performance motion control of an induction motor with magnetic saturation. <i>IEEE Transactions on Control Systems Technology</i> , <b>1999</b> , 7, 315-327	4.8	36
111	Performance of an adaptive algorithm for sinusoidal disturbance rejection in high noise. <i>Automatica</i> , <b>2001</b> , 37, 1133-1140	5.7	32
110	Torque maximization for permanent magnet synchronous motors. <i>IEEE Transactions on Control Systems Technology</i> , <b>1998</b> , 6, 740-744	4.8	31
109	Spontaneous speed reversals in stepper motors. <i>IEEE Transactions on Control Systems Technology</i> , <b>2006</b> , 14, 369-373	4.8	30
108	Design of Controllers for Electrical Power Systems Using a Complex Root Locus Method. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 3706-3716	8.9	25
107	Load Balancing in Control Allocation. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2011</b> , 34, 380-387	2.1	25

106	Nonlinear averaging theorems, and the determination of parameter convergence rates in adaptive control. <i>Systems and Control Letters</i> , <b>1986</b> , 7, 145-157	2.4	25
105	Flight Testing of a Reconfigurable Control System on an Unmanned Aircraft. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2005</b> , 28, 698-707	2.1	24
104	Multi-channel active noise control for periodic sources—indirect approach. <i>Automatica</i> , <b>2004</b> , 40, 203-212	5.7	22
103	Adaptive Harmonic Steady-State Disturbance Rejection with Frequency Tracking. <i>Asian Journal of Control</i> , <b>2013</b> , 15, 1-10	1.7	21
102	Reconfigurable Nonlinear Autopilot. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2003</b> , 26, 719-727	2.1	21
101	Fast Implementation of Direct Allocation with Extension to Coplanar Controls. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2002</b> , 25, 464-473	2.1	20
100	Multivariable model reference adaptive control without constraints on the high-frequency gain matrix. <i>Automatica</i> , <b>1995</b> , 31, 597-604	5.7	20
99	The Complex Hurwitz Test for the Analysis of Spontaneous Self-Excitation in Induction Generators. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 449-454	5.9	19
98	Direct adaptive cancellation of periodic disturbances for multivariable plants. <i>IEEE Transactions on Speech and Audio Processing</i> , <b>2003</b> , 11, 538-548		19
97	Analysis of Triggered Self-Excitation in Induction Generators and Experimental Validation. <i>IEEE Transactions on Energy Conversion</i> , <b>2012</b> , 27, 238-249	5.4	18
96	Robust Sinusoid Identification With Structured and Unstructured Measurement Uncertainties. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 1588-1593	5.9	17
95	Study of the Stability of a Direct Stator Current Controller for a Doubly Fed Induction Machine Using the Complex Hurwitz Test. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 2323-2331	4.8	17
94	A differential-algebraic approach to speed estimation in an induction motor. <i>IEEE Transactions on Automatic Control</i> , <b>2006</b> , 51, 1172-1177	5.9	17
93			16
92	Frequency domain conditions for parameter convergence in multivariable recursive identification. <i>Automatica</i> , <b>1990</b> , 26, 757-767	5.7	16
91	Complex-Based Controller for a Three-Phase Inverter With an LCL Filter Connected to Unbalanced Grids. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 3899-3909	7.2	15
90	Comparison of Two Magnetic Saturation Models of Induction Machines and Experimental Validation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 81-90	8.9	15
89	Root locus rules for polynomials with complex coefficients <b>2013</b> ,		14

88	Evaluation of optimization methods for control allocation <b>2001</b> ,		14
87	Effect of the choice of error equation on the robustness properties of adaptive control systems. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>1988</b> , 2, 249-257	2.8	14
86	New stability theorems for averaging and their application to the convergence analysis of adaptive identification and control schemes <b>1985</b> ,		13
85	Speed Sensorless Identification of the Rotor Time Constant in Induction Machines. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 758-763	5.9	12
84	Suppression of Sub-Synchronous Resonances Through Excitation Control of Doubly Fed Induction Generators. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 4329-4340	7	11
83	A discussion of Chaplin and Smith's patent for the cancellation of repetitive vibrations. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 2221-2225	5.9	11
82	Flight Control with Optimal Control Allocation Incorporating Structural Load Feedback. <i>Journal of Aerospace Information Systems</i> , <b>2015</b> , 12, 825-834	1	10
81	Robust parametric identification of sinusoidal signals: An Input-to-State Stability approach <b>2011</b> ,		10
80	Online identification of the rotor time constant of an induction machine <b>2009</b> ,		10
79	Control Allocation with Load Balancing <b>2009</b> ,		10
78	. <i>IEEE Transactions on Energy Conversion</i> , <b>2015</b> , 30, 1310-1320	5.4	9
77	<b>2010</b> ,		9
76	Equivalence between adaptive cancellation algorithms and linear time-varying compensators <b>2004</b> ,		9
75	. <i>IEEE Transactions on Automatic Control</i> , <b>1994</b> , 39, 1612-1617	5.9	9
74	Parameter estimation of permanent magnet stepper motors without mechanical sensors. <i>Control Engineering Practice</i> , <b>2014</b> , 26, 178-187	3.9	8
73	Adaptive rejection of disturbances having two sinusoidal components with close and unknown frequencies. <i>Asian Journal of Control</i> , <b>2012</b> , 14, 36-44	1.7	8
72	. <i>IEEE Control Systems</i> , <b>1994</b> , 14, 10-12	2.9	8
71	An Optimization Formulation of Converter Control and Its General Solution for the Four-Leg Two-Level Inverter. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1901-1908	4.8	7

70	Analytic conditions for spontaneous self-excitation in induction generators <b>2010</b> ,		7
69	An adaptive algorithm for the tuning of two input shaping methods <b>1997</b> ,		7
68	MR head effects on PES generation: simulation and experiment. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 1773-1778	2	7
67	Pole Placement Control for Doubly-Fed Induction Generators Using Compact Representations in Complex Variables. <i>IEEE Transactions on Energy Conversion</i> , <b>2019</b> , 34, 750-760	5-4	7
66	Speed Control for Doubly Fed Induction Motors With and Without Current Feedback. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 898-907	4.8	7
65	Design of controllers in the complex domain <b>2014</b> ,		6
64	Investigation of Optimal Control Allocation for Gust Load Alleviation in Flight Control <b>2012</b> ,		6
63	On the triggering of self-excitation in induction generators <b>2010</b> ,		6
62	Adaptive harmonic steady-state disturbance rejection with frequency tracking <b>2010</b> ,		6
61	Periodic disturbance rejection of a PMSM with adaptive control algorithms <b>2011</b> ,		6
60	Calculation of recoverable sets for systems with input and state constraints. <i>Optimal Control Applications and Methods</i> , <b>1998</b> , 19, 247-269	1.7	6
59	Towards Real-Time Simulation of Aeroservoelastic Dynamics for a Flight Vehicle from Subsonic to Hypersonic Regime <b>2008</b> ,		6
58	Fast control allocation using spherical coordinates <b>1999</b> ,		6
57			6
56			6
55	. <i>IEEE Transactions on Automatic Control</i> , <b>1988</b> , 33, 969-976	5.9	6
54	Exponential convergence and robustness margins in adaptive control <b>1984</b> ,		6
53	Parameter estimation of permanent magnet stepper motors without position or velocity sensors <b>2012</b> ,		5

52	A Framework for Optimal Control Allocation with Structural Load Constraints <b>2010</b> ,		5
51	Hybrid Electric Propulsion Using Doubly Fed Induction Machines. <i>Journal of Propulsion and Power</i> , <b>2020</b> , 36, 78-87	1.8	5
50	A fast active-balancing method for the 3-phase multilevel flying capacitor inverter derived from control allocation theory. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 2113-2118	0.7	4
49	Control Demonstration of Multiple Doubly-Fed Induction Motors for Hybrid Electric Propulsion <b>2017</b> ,		4
48	Nonsensor control of centrifugal water pump with asynchronous electric-drive motor based on extended Kalman filter. <i>Russian Electrical Engineering</i> , <b>2011</b> , 82, 69-75	0.5	4
47	The complex Hurwitz test for the stability analysis of induction generators <b>2010</b> ,		4
46	Sensitivity Analysis of Linear Programming and Quadratic Programming Algorithms for Control Allocation <b>2009</b> ,		4
45	Control allocation for systems with coplanar controls <b>2000</b> ,		4
44	Fast exact adaptive algorithms for feedforward active noise control. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2000</b> , 14, 643-661	2.8	4
43	Pseudo-burst phenomenon in ideal adaptive systems. <i>Automatica</i> , <b>1993</b> , 29, 929-940	5.7	4
42	Design of Drives for Inverter-Assisted Induction Generators. <i>IEEE Transactions on Industry Applications</i> , <b>2012</b> , 48, 2147-2156	4.3	3
41	Model of a self-excited induction generator for the design of capacitor-controlled voltage regulators <b>2013</b> ,		3
40	Nonlinear dynamic model and stability analysis of self-excited induction generators <b>2011</b> ,		3
39	On the capacitor voltage needed to trigger self-excitation in induction generators <b>2011</b> ,		3
38	Equivalence between adaptive feedforward cancellation and disturbance rejection using the internal model principle. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2009</b> , 24, n/a-n/a <sup>2.8</sup>		3
37	Combined identification and rejection of periodic disturbances in the presence of plant uncertainty. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 674-679		3
36	Adaptive rejection of multiple sinusoids of unknown frequency <b>2007</b> ,		3
35	Algebraic Methods for Nonlinear Systems: Parameter Identification and State Estimation <b>2006</b> , 59-78		3

34	An Adaptive Method for Induction Motor Control <b>1993</b> ,		3
33	Parameter Convergence and Uniqueness in Nonminimal Parameterizations for Multivariable Adaptive Control. <i>SIAM Journal on Control and Optimization</i> , <b>1992</b> , 30, 800-815	1.9	3
32	<b>1991</b> ,		3
31	A new control allocation method for power converters and its application to the four-leg two-level inverter <b>2015</b> ,		2
30	Estimation of the rotor time constant of an induction machine at constant speed <b>2007</b> ,		2
29	Adaptive rejection of sinusoidal disturbances of known frequency acting on unknown systems <b>2006</b> ,		2
28	A Reconfigurable Nonlinear Autopilot <b>2002</b> ,		2
27	. <i>IEEE Control Systems</i> , <b>1995</b> , 15, 6-8	2.9	2
26	Integral compensation in adaptive algorithms for reconfigurable flight control <b>1996</b> ,		2
25	Tuned values in adaptive control <b>1989</b> , 206-216		2
24	Multivariable control of VTOL aircraft for shipboard landing <b>1985</b> ,		2
23	Explaining the Routh&ndash;Hurwitz Criterion: A Tutorial Presentation [Focus on Education]. <i>IEEE Control Systems</i> , <b>2020</b> , 40, 45-51	2.9	2
22	Evaluation of metrics of susceptibility to cascading blackouts <b>2017</b> ,		2
21	Integrated Control of a Motor/Generator Set Composed of Doubly Fed Induction Machines. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 1858-1869	5.6	2
20	A new PWM method for a 3-phase 4-leg inverter based on the injection of the opposite median reference voltage <b>2016</b> ,		1
19	Introduction to AC Motor Control <b>2013</b> , 1-13		1
18	Determination of the parameters of non-symmetric induction machines <b>2011</b> ,		1
17	Several practical configurations of a grid-tied induction generator constructed from inexpensive single phase induction motors <b>2011</b> ,		1



16	Averaging analysis of a sinusoidal disturbance rejection algorithm for unknown plants <b>2008</b> ,		1
15	Rejection of periodic disturbances with adaptation to unknown systems <b>2007</b> ,		1
14	Editorial - ten years later. <i>IEEE Transactions on Control Systems Technology</i> , <b>2003</b> , 11, 1-1	4.8	1
13	Rejection of disturbances with a large sinusoidal component of unknown frequency <b>1996</b> ,		1
12	Trends in electronics for electric motor control. <i>IEEE Control Systems</i> , <b>1996</b> , 16, 88-96	2.9	1
11	. <i>IEEE Transactions on Automatic Control</i> , <b>1994</b> , 39, 864-870	5.9	1
10	REVISITING THE MIT RULE FOR ADAPTIVE CONTROL <b>1987</b> , 161-166		1
9	Control of a PMSM Using the Rotor-Side Converter of a Doubly Fed Induction Generator for Hybrid-Electric Propulsion. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-8	4.8	1
8	Nipping Blackouts in the Bud: Introducing a Novel Cascading Failure Network. <i>IEEE Power and Energy Magazine</i> , <b>2020</b> , 18, 64-75	2.4	0
7	Optimal control allocation for the parallel interconnection of buck converters. <i>Control Engineering Practice</i> , <b>2021</b> , 109, 104727	3.9	0
6	Scalable Control-Oriented Model of the Modular Multilevel Converter for Polyphase Systems. <i>IEEE Transactions on Industry Applications</i> , <b>2022</b> , 1-1	4.3	0
5	Gearbox Ripple Rejection of Robots Using Observer and Adaptive Control Theory. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 893-898		
4	Joint Identification of Stepper Motor Parameters and of Initial Encoder Offset*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 763-768		
3	Defining control systems technology. <i>IEEE Transactions on Control Systems Technology</i> , <b>2002</b> , 10, 1-1	4.8	
2	Complex-domain Design and Robustness Analysis for the Control of SSCI in DFIG-based Wind Farms. <i>International Journal of Control, Automation and Systems</i> , <b>2022</b> , 20, 483-495	2.9	
1	A Multiple-Reference Complex-Based Controller for Power Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 14466-14477	7.2	