

Marc Bodson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , 2022 , 20, 483-495	2.9	0
140	Scalable Control-Oriented Model of the Modular Multilevel Converter for Polyphase Systems. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	0
139	Optimal control allocation for the parallel interconnection of buck converters. <i>Control Engineering Practice</i> , 2021 , 109, 104727	3.9	0
138	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> , 2021 , 1-8	4.8	1
137	A Multiple-Reference Complex-Based Controller for Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 14466-14477	7.2	0
136	Nipping Blackouts in the Bud: Introducing a Novel Cascading Failure Network. <i>IEEE Power and Energy Magazine</i> , 2020 , 18, 64-75	2.4	0
135	Explaining the Routh–Hurwitz Criterion: A Tutorial Presentation [Focus on Education]. <i>IEEE Control Systems</i> , 2020 , 40, 45-51	2.9	2
134	Hybrid Electric Propulsion Using Doubly Fed Induction Machines. <i>Journal of Propulsion and Power</i> , 2020 , 36, 78-87	1.8	5
133	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> , 2020 , 8, 1858-1869	5.6	2
132	Speed Control for Doubly Fed Induction Motors With and Without Current Feedback. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 898-907	4.8	7
131	Suppression of Sub-Synchronous Resonances Through Excitation Control of Doubly Fed Induction Generators. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 4329-4340	7	11
130	Complex-Based Controller for a Three-Phase Inverter With an LCL Filter Connected to Unbalanced Grids. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 3899-3909	7.2	15
129	Pole Placement Control for Doubly-Fed Induction Generators Using Compact Representations in Complex Variables. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 750-760	5.4	7
128	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> , 2018 , 26, 1901-1908	4.8	7
127	A fast active-balancing method for the 3-phase multilevel flying capacitor inverter derived from control allocation theory. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2113-2118	0.7	4
126	Control Demonstration of Multiple Doubly-Fed Induction Motors for Hybrid Electric Propulsion 2017 ,		4
125	Comparison of Two Magnetic Saturation Models of Induction Machines and Experimental Validation. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 81-90	8.9	15

124	Evaluation of metrics of susceptibility to cascading blackouts 2017 ,		2
123	A new PWM method for a 3-phase 4-leg inverter based on the injection of the opposite median reference voltage 2016 ,		1
122	Design of Controllers for Electrical Power Systems Using a Complex Root Locus Method. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 3706-3716	8.9	25
121	Flight Control with Optimal Control Allocation Incorporating Structural Load Feedback. <i>Journal of Aerospace Information Systems</i> , 2015 , 12, 825-834	1	10
120	. <i>IEEE Transactions on Energy Conversion</i> , 2015 , 30, 1310-1320	5.4	9
119	A new control allocation method for power converters and its application to the four-leg two-level inverter 2015 ,		2
118	Parameter estimation of permanent magnet stepper motors without mechanical sensors. <i>Control Engineering Practice</i> , 2014 , 26, 178-187	3.9	8
117	Robust Sinusoid Identification With Structured and Unstructured Measurement Uncertainties. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1588-1593	5.9	17
116	Design of controllers in the complex domain 2014 ,		6
115	Adaptive Harmonic Steady-State Disturbance Rejection with Frequency Tracking. <i>Asian Journal of Control</i> , 2013 , 15, 1-10	1.7	21
114	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> , 2013 , 21, 2323-2331	4.8	17
113	Root locus rules for polynomials with complex coefficients 2013 ,		14
112	The Complex Hurwitz Test for the Analysis of Spontaneous Self-Excitation in Induction Generators. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 449-454	5.9	19
111	Introduction to AC Motor Control 2013 , 1-13		1
110	Model of a self-excited induction generator for the design of capacitor-controlled voltage regulators 2013 ,		3
109	Adaptive rejection of disturbances having two sinusoidal components with close and unknown frequencies. <i>Asian Journal of Control</i> , 2012 , 14, 36-44	1.7	8
108	Design of Drives for Inverter-Assisted Induction Generators. <i>IEEE Transactions on Industry Applications</i> , 2012 , 48, 2147-2156	4.3	3
107	Parameter estimation of permanent magnet stepper motors without position or velocity sensors 2012 ,		5

106	Investigation of Optimal Control Allocation for Gust Load Alleviation in Flight Control 2012 ,		6
105	Analysis of Triggered Self-Excitation in Induction Generators and Experimental Validation. <i>IEEE Transactions on Energy Conversion</i> , 2012 , 27, 238-249	5.4	18
104	Joint Identification of Stepper Motor Parameters and of Initial Encoder Offset*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 763-768		
103	Combined identification and rejection of periodic disturbances in the presence of plant uncertainty. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 674-679		3
102	Load Balancing in Control Allocation. <i>Journal of Guidance, Control, and Dynamics</i> , 2011 , 34, 380-387	2.1	25
101	Gearbox Ripple Rejection of Robots Using Observer and Adaptive Control Theory. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 893-898		
100	Nonsensor control of centrifugal water pump with asynchronous electric-drive motor based on extended Kalman filter. <i>Russian Electrical Engineering</i> , 2011 , 82, 69-75	0.5	4
99	Nonlinear dynamic model and stability analysis of self-excited induction generators 2011 ,		3
98	On the capacitor voltage needed to trigger self-excitation in induction generators 2011 ,		3
97	Determination of the parameters of non-symmetric induction machines 2011 ,		1
96	Robust parametric identification of sinusoidal signals: An Input-to-State Stability approach 2011 ,		10
95	Several practical configurations of a grid-tied induction generator constructed from inexpensive single phase induction motors 2011 ,		1
94	Periodic disturbance rejection of a PMSM with adaptive control algorithms 2011 ,		6
93	The complex Hurwitz test for the stability analysis of induction generators 2010 ,		4
92	On the triggering of self-excitation in induction generators 2010 ,		6
91	Analytic conditions for spontaneous self-excitation in induction generators 2010 ,		7
90	2010 ,		9
89	Adaptive Algorithms for the Rejection of Sinusoidal Disturbances Acting on Unknown Plants. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 822-836	4.8	67

88	Adaptive harmonic steady-state disturbance rejection with frequency tracking 2010 ,		6
87	A Framework for Optimal Control Allocation with Structural Load Constraints 2010 ,		5
86	Equivalence between adaptive feedforward cancellation and disturbance rejection using the internal model principle. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009 , 24, n/a-n/a ^{2.8}		3
85	Online identification of the rotor time constant of an induction machine 2009 ,		10
84	Sensitivity Analysis of Linear Programming and Quadratic Programming Algorithms for Control Allocation 2009 ,		4
83	Control Allocation with Load Balancing 2009 ,		10
82	Analysis and Implementation of an Adaptive Algorithm for the Rejection of Multiple Sinusoidal Disturbances. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 40-50	4.8	47
81	Towards Real-Time Simulation of Aeroservoelastic Dynamics for a Flight Vehicle from Subsonic to Hypersonic Regime 2008 ,		6
80	Averaging analysis of a sinusoidal disturbance rejection algorithm for unknown plants 2008 ,		1
79	Adaptive rejection of multiple sinusoids of unknown frequency 2007 ,		3
78	Rejection of periodic disturbances with adaptation to unknown systems 2007 ,		1
77	Estimation of the rotor time constant of an induction machine at constant speed 2007 ,		2
76	Speed Sensorless Identification of the Rotor Time Constant in Induction Machines. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 758-763	5.9	12
75	An Online Rotor Time Constant Estimator for the Induction Machine. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 339-348	4.8	40
74	Adaptive rejection of sinusoidal disturbances of known frequency acting on unknown systems 2006 ,		2
73	Spontaneous speed reversals in stepper motors. <i>IEEE Transactions on Control Systems Technology</i> , 2006 , 14, 369-373	4.8	30
72	A differential-algebraic approach to speed estimation in an induction motor. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1172-1177	5.9	17
71	Algebraic Methods for Nonlinear Systems: Parameter Identification and State Estimation 2006 , 59-78		3

70	Constrained quadratic programming techniques for control allocation. <i>IEEE Transactions on Control Systems Technology</i> , 2006 , 14, 91-98	4.8	127
69	A nonlinear least-squares approach for identification of the induction motor parameters. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 1622-1628	5.9	61
68	Rejection of periodic disturbances of unknown and time-varying frequency. <i>International Journal of Adaptive Control and Signal Processing</i> , 2005 , 19, 67-88	2.8	80
67	Interior-Point Algorithms for Control Allocation. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 471-480	2.1	56
66	Flight Testing of a Reconfigurable Control System on an Unmanned Aircraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 698-707	2.1	24
65	Multi-channel active noise control for periodic sources—direct approach. <i>Automatica</i> , 2004 , 40, 203-212	5.7	22
64	Equivalence between adaptive cancellation algorithms and linear time-varying compensators 2004 ,		9
63	Editorial - ten years later. <i>IEEE Transactions on Control Systems Technology</i> , 2003 , 11, 1-1	4.8	1
62	A magnitude/phase-locked loop approach to parameter estimation of periodic signals. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 612-618	5.9	55
61	Reconfigurable Nonlinear Autopilot. <i>Journal of Guidance, Control, and Dynamics</i> , 2003 , 26, 719-727	2.1	21
60	Direct adaptive cancellation of periodic disturbances for multivariable plants. <i>IEEE Transactions on Speech and Audio Processing</i> , 2003 , 11, 538-548		19
59	Fast Implementation of Direct Allocation with Extension to Coplanar Controls. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 464-473	2.1	20
58	A Reconfigurable Nonlinear Autopilot 2002 ,		2
57	Evaluation of Optimization Methods for Control Allocation. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 703-711	2.1	361
56	Defining control systems technology. <i>IEEE Transactions on Control Systems Technology</i> , 2002 , 10, 1-1	4.8	
55	Performance of an adaptive algorithm for sinusoidal disturbance rejection in high noise. <i>Automatica</i> , 2001 , 37, 1133-1140	5.7	32
54	Evaluation of optimization methods for control allocation 2001 ,		14
53	Active noise control for periodic disturbances. <i>IEEE Transactions on Control Systems Technology</i> , 2001 , 9, 200-205	4.8	91

52	Control allocation for systems with coplanar controls 2000 ,		4
51	Fast exact adaptive algorithms for feedforward active noise control. <i>International Journal of Adaptive Control and Signal Processing</i> , 2000 , 14, 643-661	2.8	4
50	A discussion of Chaplin and Smith's patent for the cancellation of repetitive vibrations. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 2221-2225	5.9	11
49	High-performance motion control of an induction motor with magnetic saturation. <i>IEEE Transactions on Control Systems Technology</i> , 1999 , 7, 315-327	4.8	36
48	Fast control allocation using spherical coordinates 1999 ,		6
47	An Adaptive Algorithm for the Tuning of Two Input Shaping Methods. <i>Automatica</i> , 1998 , 34, 771-776	5.7	50
46	Differential-geometric methods for control of electric motors. <i>International Journal of Robust and Nonlinear Control</i> , 1998 , 8, 923-954	3.6	52
45	Calculation of recoverable sets for systems with input and state constraints. <i>Optimal Control Applications and Methods</i> , 1998 , 19, 247-269	1.7	6
44	Development and Flight Testing of a Parameter Identification Algorithm for Reconfigurable Control. <i>Journal of Guidance, Control, and Dynamics</i> , 1998 , 21, 948-956	2.1	73
43	Torque maximization for permanent magnet synchronous motors. <i>IEEE Transactions on Control Systems Technology</i> , 1998 , 6, 740-744	4.8	31
42	Command Limiting in Reconfigurable Flight Control. <i>Journal of Guidance, Control, and Dynamics</i> , 1998 , 21, 639-646	2.1	38
41	An adaptive algorithm for the tuning of two input shaping methods 1997 ,		7
40	Multivariable adaptive algorithms for reconfigurable flight control. <i>IEEE Transactions on Control Systems Technology</i> , 1997 , 5, 217-229	4.8	313
39	Adaptive algorithms for the rejection of sinusoidal disturbances with unknown frequency. <i>Automatica</i> , 1997 , 33, 2213-2221	5.7	389
38	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> , 1996 , 118, 416-424	1.6	41
37	MR head effects on PES generation: simulation and experiment. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 1773-1778	2	7
36	Rejection of disturbances with a large sinusoidal component of unknown frequency 1996 ,		1
35	Integral compensation in adaptive algorithms for reconfigurable flight control 1996 ,		2

34	Trends in electronics for electric motor control. <i>IEEE Control Systems</i> , 1996 , 16, 88-96	2.9	1
33	. <i>IEEE Transactions on Industrial Electronics</i> , 1995 , 42, 337-343	8.9	43
32	A systematic approach to selecting flux references for torque maximization in induction motors. <i>IEEE Transactions on Control Systems Technology</i> , 1995 , 3, 388-397	4.8	55
31	. <i>IEEE Control Systems</i> , 1995 , 15, 6-8	2.9	2
30	. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 1031-1036	2	81
29	Design of adaptive feedforward algorithms using internal model equivalence. <i>International Journal of Adaptive Control and Signal Processing</i> , 1995 , 9, 199-212	2.8	54
28	Multivariable model reference adaptive control without constraints on the high-frequency gain matrix. <i>Automatica</i> , 1995 , 31, 597-604	5.7	20
27	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 864-870	5.9	1
26	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 1939-1944	5.9	173
25	. <i>IEEE Transactions on Industry Applications</i> , 1994 , 30, 746-759	4.3	172
24	. <i>IEEE Control Systems</i> , 1994 , 14, 25-33	2.9	134
23	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 1612-1617	5.9	9
22	. <i>IEEE Control Systems</i> , 1994 , 14, 10-12	2.9	8
21	. <i>IEEE Transactions on Control Systems Technology</i> , 1993 , 1, 5-14	4.8	198
20	. <i>IEEE Transactions on Control Systems Technology</i> , 1993 , 1, 270-279	4.8	45
19	. <i>IEEE Transactions on Automatic Control</i> , 1993 , 38, 1662-1666	5.9	44
18	Experimental Results of Adaptive Periodic Disturbance Cancellation in a High Performance Magnetic Disk Drive 1993 ,		52
17	An Adaptive Method for Induction Motor Control 1993 ,		3

16	Pseudo-burst phenomenon in ideal adaptive systems. <i>Automatica</i> , 1993 , 29, 929-940	5.7	4
15	Parameter Convergence and Uniqueness in Nonminimal Parameterizations for Multivariable Adaptive Control. <i>SIAM Journal on Control and Optimization</i> , 1992 , 30, 800-815	1.9	3
14	1991 ,		3
13	Frequency domain conditions for parameter convergence in multivariable recursive identification. <i>Automatica</i> , 1990 , 26, 757-767	5.7	16
12	Tuned values in adaptive control 1989 , 206-216		2
11	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> , 1988 , 2, 249-257	2.8	14
10	. <i>IEEE Transactions on Automatic Control</i> , 1988 , 33, 969-976	5.9	6
9	REVISITING THE MIT RULE FOR ADAPTIVE CONTROL 1987 , 161-166		1
8	Nonlinear averaging theorems, and the determination of parameter convergence rates in adaptive control. <i>Systems and Control Letters</i> , 1986 , 7, 145-157	2.4	25
7	Multivariable control of VTOL aircraft for shipboard landing 1985 ,		2
6	New stability theorems for averaging and their application to the convergence analysis of adaptive identification and control schemes 1985 ,		13
5	Exponential convergence and robustness margins in adaptive control 1984 ,		6
4	Real time estimation of ship motions using Kalman filtering techniques. <i>IEEE Journal of Oceanic Engineering</i> , 1983 , 8, 9-20	3.3	51
3			6
2			6
1			16