

Cristiano M Verrelli

List of Publications by Year in descending order

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99
papers

1,570
citations

304602

22
h-index

345118

36
g-index

102
all docs

102
docs citations

102
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction Motor Control Design. Advances in Industrial Control, 2010, , .	0.4	147
2	Observer-Based Speed Tracking Control for Sensorless Permanent Magnet Synchronous Motors With Unknown Load Torque. IEEE Transactions on Automatic Control, 2011, 56, 1484-1488.	3.6	99
3	A global tracking control for speed-sensorless induction motors. Automatica, 2004, 40, 1071-1077.	3.0	64
4	An adaptive tracking control from current measurements for induction motors with uncertain load torque and rotor resistance. Automatica, 2008, 44, 2593-2599.	3.0	59
5	On-Line Identification of Winding Resistances and Load Torque in Induction Machines. IEEE Transactions on Control Systems Technology, 2014, 22, 1629-1637.	3.2	56
6	A global robust iterative learning position control for current-fed permanent magnet step motors. Automatica, 2011, 47, 227-234.	3.0	48
7	Speed Sensor Fault Tolerant PMSM Machines: From Position-Sensorless to Sensorless Control. IEEE Transactions on Industry Applications, 2019, 55, 3946-3954.	3.3	48
8	Nonlinear Control Techniques for the Heart Rate Regulation in Treadmill Exercises. IEEE Transactions on Biomedical Engineering, 2012, 59, 599-603.	2.5	45
9	Adaptive control for speed-sensorless induction motors with uncertain load torque and rotor resistance. International Journal of Adaptive Control and Signal Processing, 2005, 19, 661-685.	2.3	44
10	A nonlinear adaptive speed tracking control for sensorless permanent magnet step motors with unknown load torque. International Journal of Adaptive Control and Signal Processing, 2008, 22, 266-288.	2.3	43
11	A nonlinear tracking control for sensorless induction motors. Automatica, 2005, 41, 1071-1077.	3.0	40
12	Nonlinear tracking control for sensorless permanent magnet synchronous motors with uncertainties. Control Engineering Practice, 2017, 60, 157-170.	3.2	40
13	Fault-tolerant cruise control of electric vehicles with induction motors. Control Engineering Practice, 2013, 21, 860-869.	3.2	39
14	Synchronization of permanent magnet electric motors: New nonlinear advanced results. Nonlinear Analysis: Real World Applications, 2012, 13, 395-409.	0.9	35
15	Learning control in spatial coordinates for the path-following of autonomous vehicles. Automatica, 2014, 50, 1867-1874.	3.0	34
16	Linear Repetitive Learning Controls for Robotic Manipulators by Pad \hat{A} Approximants. IEEE Transactions on Control Systems Technology, 2015, 23, 2063-2070.	3.2	34
17	Learning control for nonlinear systems in output feedback form. Systems and Control Letters, 2012, 61, 1242-1247.	1.3	33
18	Global Learning Position Controls for Permanent-Magnet Step Motors. IEEE Transactions on Industrial Electronics, 2011, 58, 4654-4663.	5.2	32

#	ARTICLE	IF	CITATIONS
19	Experimental Heart Rate Regulation in Cycle-Ergometer Exercises. IEEE Transactions on Biomedical Engineering, 2013, 60, 135-139.	2.5	31
20	Robust adaptive learning control for nonlinear systems with extended matching unstructured uncertainties. International Journal of Robust and Nonlinear Control, 2012, 22, 645-675.	2.1	23
21	Advances on adaptive learning control: The case of non-minimum phase linear systems. Systems and Control Letters, 2018, 115, 55-62.	1.3	23
22	Fourier series expansion for synchronization of permanent magnet electric motors. Applied Mathematics and Computation, 2011, 217, 4502-4515.	1.4	22
23	Linear repetitive learning controls for nonlinear systems by Pad \hat{A} approximants. International Journal of Adaptive Control and Signal Processing, 2015, 29, 783-804.	2.3	22
24	Nonlinear speed tracking control for sensorless PMSMs with unknown load torque: From theory to practice. Control Engineering Practice, 2012, 20, 714-724.	3.2	20
25	Robust transient stabilisation problem for a synchronous generator in a power network. International Journal of Control, 2010, 83, 816-828.	1.2	19
26	Repetitive Learning Control Design for LED Light Tracking. IEEE Transactions on Control Systems Technology, 2015, 23, 1139-1146.	3.2	19
27	Automatic motor speed reference generators for cruise and lateral control of electric vehicles with in-wheel motors. Control Engineering Practice, 2018, 79, 126-143.	3.2	19
28	Adaptive learning control design for robotic manipulators driven by permanent magnet synchronous motors. International Journal of Control, 2011, 84, 1024-1030.	1.2	18
29	Establishing improved convergence and robustness properties for the repetitive learning control. Applied Mathematics and Computation, 2012, 218, 11311-11322.	1.4	17
30	Adaptive Field-oriented Control of Synchronous Motors with Damping Windings. European Journal of Control, 2008, 14, 177-195.	1.6	15
31	A New Flux Observer for Induction Motors with On-Line Identification of Load Torque and Resistances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6172-6177.	0.4	15
32	Novel algorithms for the synchronization control of nonlinear systems. International Journal of Adaptive Control and Signal Processing, 2016, 30, 608-633.	2.3	14
33	Automatic Rotor Speed Reference Generator for Electric Vehicles Under Slip Constraints. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3473-3478.	4.7	13
34	A larger family of nonlinear systems for the repetitive learning control. Automatica, 2016, 71, 38-43.	3.0	13
35	Learning Position Controls for Hybrid Step Motors: From Current-Fed to Full-Order Models. IEEE Transactions on Industrial Electronics, 2018, 65, 6120-6130.	5.2	13
36	A global state feedback output regulating control for uncertain systems in strict feedback form. Systems and Control Letters, 2009, 58, 682-690.	1.3	12

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37	Establishing improved convergence properties for the adaptive learning control. <i>Automatica</i> , 2011, 47, 865-867.	3.0	12
38	Repetitive learning position control for full order model permanent magnet step motors. <i>Automatica</i> , 2016, 63, 274-286.	3.0	12
39	Nonlinear tracking control for sensorless induction motors. , 2004, , .		11
40	Robust Adaptive Transient Stabilization of a Synchronous Generator with Parameter Uncertainty. <i>European Journal of Control</i> , 2006, 12, 135-148.	1.6	11
41	Robust output feedback learning control for induction motor servo drives. <i>International Journal of Robust and Nonlinear Control</i> , 2009, 19, 1745-1759.	2.1	11
42	Learning control for induction motor servo drives with uncertain rotor resistance. <i>International Journal of Control</i> , 2010, 83, 1515-1528.	1.2	11
43	Persistency of excitation and position-sensorless control of permanent magnet synchronous motors. <i>Automatica</i> , 2018, 95, 328-335.	3.0	11
44	Steady-state speed sensor fault detection in induction motors with uncertain parameters: A matter of algebraic equations. <i>Control Engineering Practice</i> , 2018, 80, 125-137.	3.2	10
45	Nonlinear Robust Coordinated PSS-AVR Control for a Synchronous Generator Connected to an Infinite Bus. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 1414-1422.	3.6	10
46	Space-learning tracking control for permanent magnet step motors. <i>Automatica</i> , 2016, 73, 223-230.	3.0	9
47	Gaming Technology for Pediatric Neurorehabilitation: A Systematic Review. <i>Frontiers in Pediatrics</i> , 2022, 10, 775356.	0.9	9
48	A nonlinear tracking control for sensorless induction motors with uncertain load torque. <i>International Journal of Adaptive Control and Signal Processing</i> , 2008, 22, 1-22.	2.3	8
49	Adaptive output feedback tracking control for induction motors with uncertain load torque and resistances. , 2010, , .		8
50	Further results on nonlinear tracking control and parameter estimation for induction motors. <i>Control Engineering Practice</i> , 2017, 66, 116-125.	3.2	8
51	Global stability for the inner and outer PI control actions in non-salient-pole PMSMs. <i>Automatica</i> , 2020, 117, 108988.	3.0	8
52	Generalized Finite-Length Fibonacci Sequences in Healthy and Pathological Human Walking: Comprehensively Assessing Recursivity, Asymmetry, Consistency, Self-Similarity, and Variability of Gaits. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 649533.	1.0	8
53	Adaptive flux observer for induction machines with on-line estimation of stator and rotor resistances. , 2012, , .		7
54	Front crawl stroke in swimming: Phase durations and self-similarity. <i>Journal of Biomechanics</i> , 2021, 118, 110267.	0.9	7

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55	Two-Age-Structured COVID-19 Epidemic Model: Estimation of Virulence Parameters to Interpret Effects of National and Regional Feedback Interventions and Vaccination. <i>Mathematics</i> , 2021, 9, 2414.	1.1	7
56	Position Learning Control for Current-Fed Permanent Magnet Step Motors with Uncertainties. , 2008, , .		6
57	Nonlinear adaptive control for position-sensorless permanent magnet synchronous motors with uncertainties. , 2016, , .		6
58	A learning control algorithm for periodic robot synchronization: Experimental results. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 729-741.	2.3	6
59	Nonlinear Adaptive Output Feedback Control of Synchronous Motors with Damping Windings. <i>Industrial Electronics Society (IECON)</i> , Annual Conference of IEEE, 2006, , .	0.0	5
60	Global learning controls for uncertain relative degree one linear systems: a comparative study. , 2009, , .		5
61	Adaptive learning control for non-minimum phase linear systems. , 2014, , .		5
62	Synchronisation control of electric motors through adaptive disturbance cancellation. <i>International Journal of Control</i> , 2018, 91, 2147-2158.	1.2	5
63	Nonanticipating Lyapunov Functions for Persistently Excited Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 2634-2639.	3.6	5
64	Synchronicity Rectangle for temporal gait analysis: Application to Parkinsonâ€™s Disease. <i>Biomedical Signal Processing and Control</i> , 2020, 62, 102156.	3.5	5
65	A new Bernardâ€™Praly-like observer for sensorless IPMSMs. <i>Automatica</i> , 2022, 140, 110266.	3.0	5
66	Speed and traction control in electric vehicles with induction motors. , 2012, , .		4
67	Repetitive Learning Control Design and Period Uncertainties. <i>Asian Journal of Control</i> , 2015, 17, 2417-2426.	1.9	4
68	Position estimation for permanent magnets synchronous machines in pump-fan and generating applications. , 2016, , .		4
69	Nonlinear heart rate control in treadmill/cycle-ergometer exercises under the instability constraint. <i>Automatica</i> , 2021, 127, 109492.	3.0	4
70	Phi-Bonacci Butterfly Stroke Numbers to Assess Self-Similarity in Elite Swimmers. <i>Mathematics</i> , 2021, 9, 1545.	1.1	4
71	A Nonlinear Tracking Control for Sensorless Induction Motors with Uncertain Load Torque. , 2006, , .		3
72	Observer-based speed tracking control for sensorless permanent magnet synchronous motors with unknown load torque. , 2010, , .		3

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73	Global Exponential Convergence Properties for the Open-Loop Induction Motor. IEEE Transactions on Control Systems Technology, 2012, 20, 1647-1650.	3.2	3
74	Output feedback transient stabilization and voltage regulation of synchronous generators. International Journal of Robust and Nonlinear Control, 2012, 22, 1495-1504.	2.1	3
75	Insights on Observability and Identifiability Properties of Induction Motors at Steady-State. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 110-115.	0.4	3
76	Learning control in spatial coordinates for the path-following of autonomous vehicles. , 2013, , .		3
77	Synchronization control of DC motors through adaptive disturbance cancellation techniques. , 2016, , .		3
78	AC motors: Letter swap potentialities. Automatica, 2020, 113, 108763.	3.0	3
79	New exponential convergence properties for Bernardâ€™Prly observer and adaptive sensorless control of PMSMs. Automatica, 2020, 121, 109197.	3.0	3
80	Robust transient stabilization of a synchronous generator with parameter uncertainty. , 2003, , .		2
81	Global Adaptive Learning Control for Current-fed Induction Motor Servo Drives. , 2006, , .		2
82	Nonlinear Control for Speed-Sensorless Synchronous Motors with Damping Windings. , 2007, , .		2
83	Automatic speed reference generator for electric vehicles with induction motors under slip constraints. , 2013, , .		2
84	Sensorless control for PM-machine based generating units. , 2017, , .		2
85	Comments on â€œRepetitive learning control for a class of partially linearizable uncertain nonlinear systemsâ€, [Automatica, 85 (2017) 397â€“404]. Automatica, 2020, 111, 108623.	3.0	2
86	Performance Index for in Home Assessment of Motion Abilities in Ataxia Telangiectasia: A Pilot Study. Applied Sciences (Switzerland), 2022, 12, 4093.	1.3	2
87	A new global control scheme for sensorless induction motors. , 2002, , .		1
88	Adaptive Learning Control for Induction Motor Servo Drives. , 2007, , .		1
89	A global robust iterative learning position control for current-fed permanent magnet step motors. , 2010, , .		1
90	Adaptive Flux Observers and Rotor Speed Sensor Fault Detection in Induction Motors. Lecture Notes in Electrical Engineering, 2014, , 3-18.	0.3	1

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91	A New Spatial Learning Control for Autonomous Vehicles: Experimental Results. , 2018, , .		1
92	Tracking control for sensorless induction motors with uncertain load torque and rotor resistance. , 2007, , .		1
93	PMSM-Model-Based Sensorless Control of Hybrid Stepper Motors: Performance and Robustness to Parameters Dispersion. , 2020, , .		1
94	Global output regulation of uncertain feedback linearizable systems. , 2007, , .		0
95	Adaptive learning control for nonlinear systems with extended matching unstructured uncertainties. , 2008, , .		0
96	Pad $\hat{\circ}$ approximants in linear repetitive learning controls for robotic manipulators. , 2014, , .		0
97	Synchronization control of permanent magnets synchronous motors through adaptive disturbance cancellation. , 2016, , .		0
98	Pad $\hat{\circ}$ -based-Repetitive Learning Current-Control for Voltage Source Inverters. , 2018, , .		0
99	Electric Vehicles under Slip Constraints: Experimental Results. , 2018, , .		0