

Luis Alvarez-Icaza

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

767
citations

759055

12
h-index

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25
g-index

88
all docs

88
docs citations

88
times ranked

658
citing authors

#	ARTICLE	IF	CITATIONS
1	On the nonlinear dynamics of biomass throated tubular gasification reactors. Computers and Chemical Engineering, 2022, , 107828.	2.0	1
2	Bluetooth Worm Propagation in Smartphones: Modeling and Analyzing Spatio-Temporal Dynamics. IEEE Access, 2021, 9, 75265-75282.	2.6	7
3	Residue grouping order reduction method in solid-phase lithium-ion battery models. Journal of Applied Electrochemistry, 2021, 51, 1635-1649.	1.5	4
4	Implementation of a BLDC Motor Observer Scheme using the INSTASPIN Platform. , 2021, , .		0
5	Identification System for Structural Health Monitoring in Buildings. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 31-38.	0.3	4
6	A structural analysis method for the promotion of Mexico City's integral plan of mobility. Cogent Engineering, 2020, 7, 1759395.	1.1	8
7	A CLIOS Analysis for the Promotion of Sustainable Plans of Mobility: The Case of Mexico City. Applied Sciences (Switzerland), 2020, 10, 4556.	1.3	7
8	A Structural Analysis for the Categorization of the Negative Externalities of Transport and the Hierarchical Organization of Sustainable Mobility's Strategies. Sustainability, 2020, 12, 6011.	1.6	28
9	A Prospective Study for the Mitigation of the Climate Change Effects: The Case of the North Aegean Region of Greece. Sustainability, 2020, 12, 10420.	1.6	3
10	Robust Control of the Brushless DC Motor with Variable Torque Load for Automotive Applications. Electric Power Components and Systems, 2020, 48, 117-127.	1.0	7
11	Novel analysis of sampled-data systems stabilised by a pulsed control signal. International Journal of Control, 2020, , 1-9.	1.2	1
12	Hard limitations of polynomial approximations for reduced-order models of lithium-ion cells. Journal of Applied Electrochemistry, 2020, 50, 343-354.	1.5	3
13	Monitoring and Identification of Vibration Frequencies on a Portion of MÃ©xico City Metro Line 12. Advances in Civil Engineering, 2019, 2019, 1-13.	0.4	5
14	Efficient modeling of the nonlinear dynamics of tubular heterogeneous reactors. Computers and Chemical Engineering, 2019, 123, 389-406.	2.0	12
15	Online Identification System for Damage Location in Building Structures. IEEE Latin America Transactions, 2019, 17, 1283-1290.	1.2	2
16	Model reduction of shear building models: A quantitative approach for master degrees of freedom selection. Engineering Structures, 2019, 179, 512-522.	2.6	1
17	On-line adaptive observer for buildings based on wave propagation approach. JVC/Journal of Vibration and Control, 2018, 24, 3758-3778.	1.5	12
18	Shear building stiffness estimation by wave traveling time analysis. Structural Control and Health Monitoring, 2018, 25, e2045.	1.9	6

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19	A cellular automata model for traffic flow based on kinetics theory, vehicles capabilities and driver reactions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 491, 528-548.	1.2	28
20	System identification for damage detection in buildings. , 2018, , .		0
21	Brushless DC motor control with unknown and variable torque load. <i>IFAC-PapersOnLine</i> , 2018, 51, 644-649.	0.5	15
22	Parameter and State Estimation of Shear Buildings Using Spline Interpolation and Linear Integral Filters. <i>Shock and Vibration</i> , 2018, 2018, 1-21.	0.3	1
23	Constrained generalized predictive control for obstacle avoidance in a quadcopter. <i>Robotica</i> , 2018, 36, 1363-1385.	1.3	2
24	Stability of Local On-Ramp Metering Control Laws. <i>Asian Journal of Control</i> , 2017, 19, 494-509.	1.9	1
25	Simulation and Optimization Applied to Power Flow in Hybrid Vehicles. , 2017, , 185-224.		1
26	A structural analysis method for the management of urban transportation infrastructure and its urban surroundings. <i>Cogent Engineering</i> , 2017, 4, 1326548.	1.1	8
27	Evaluation of the urban transportation infrastructure and its urban surroundings in the Iztapalapa County: A geotechnology approach about its management. <i>Cogent Engineering</i> , 2017, 4, 1330854.	1.1	7
28	Dispersion Number Identification in an Imbert Gasifier Under Parameter Uncertainty. , 2017, , .		1
29	Identification of Torsionally Coupled Shear Buildings Models Using a Vector Parameterization. <i>Shock and Vibration</i> , 2016, 2016, 1-22.	0.3	3
30	Power flow control strategies in parallel hybrid electric vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2016, 230, 1925-1941.	1.1	9
31	A matrix projection method for on line stable estimation of 1D and 3D shear building models. <i>Mechanical Systems and Signal Processing</i> , 2016, 81, 318-338.	4.4	3
32	Identification of shear buildings using an instrumental variable method and linear integral filters. <i>Journal of Sound and Vibration</i> , 2016, 385, 149-170.	2.1	7
33	An adaptive observer for wind velocity using a new torque model of a wind turbine. <i>International Journal of Control</i> , 2016, 89, 2139-2153.	1.2	0
34	Simultaneous parameter and state estimation of shear buildings. <i>Mechanical Systems and Signal Processing</i> , 2016, 70-71, 788-810.	4.4	12
35	On-Ramp Traffic Merging Modeling Based on Cellular Automata. , 2015, , .		3
36	Analysis of tire-road contact area in a control oriented test bed for dynamic friction models. <i>Journal of Applied Research and Technology</i> , 2015, 13, 461-471.	0.6	12

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37	Virtual serial strategy for parallel hybrid electric vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2015, 229, 296-310.	1.1	2
38	MODEL-BASED DYNAMIC FRICTION COMPENSATION IN ROBOT ACTUATORS. International Journal of Robotics and Automation, 2015, 30, .	0.1	1
39	Cellular automata model for traffic flow with safe driving conditions. Chinese Physics B, 2014, 23, 050701.	0.7	16
40	A Realistic Two-Lanes Traffic Simulation Model Based on Cellular Automata. , 2014, , .		1
41	Building Stiffness Estimation by Wave Traveling Times. , 2014, , .		0
42	On-line environmental noise driven 3-DOF per story parametric identification of a building. , 2014, , .		0
43	Control, Analysis, and Modeling of Vehicular Systems. Mathematical Problems in Engineering, 2014, 2014, 1-3.	0.6	0
44	Model design of a class of moving-bed tubular gasification reactors. Chemical Engineering Science, 2013, 101, 674-685.	1.9	12
45	Passivity based control of a turbocharger-diesel engine system with exhaust gas recirculation. , 2013, , .		0
46	Hysteretic Cell Transmission Model. , 2013, , .		4
47	Identification of frequencies of vibration in buildings with wave travel times. , 2013, , .		0
48	Order Reduction and Analysis of a Simplified Electrochemical Model for Electric Double-Layer Capacitors. , 2012, , .		0
49	Adaptive Generalized Predictive Control for a Hybrid Diesel Electric Vehicle. , 2012, , .		0
50	Power flow split strategy for hybrid vehicles based on generalized predictive control. , 2012, , .		0
51	Passivity based control of under-actuated mechanical systems with nonlinear dynamic friction. JVC/Journal of Vibration and Control, 2012, 18, 1025-1042.	1.5	17
52	Observer Based Vibration Control of Buildings With Magneto-Rheological Dampers. , 2012, , .		0
53	Towards a realistic description of traffic flow based on cellular automata. , 2011, , .		3
54	Power Flow Control in Hybrid Electric Vehicles. , 2011, , .		1

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55	Passivity-based swinging up of a pendulum*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10667-10672.	0.4	1
56	Wind Turbine Torque and Wind Speed Estimation. , 2011, , .		0
57	Comparison of discretization methods applied to the single-particle model of lithium-ion batteries. Journal of Power Sources, 2011, 196, 10267-10279.	4.0	49
58	Modelling of a traffic cell based on a recurrent-neural network. International Journal of Modelling, Identification and Control, 2011, 13, 259.	0.2	5
59	Cellular automaton model for traffic flow based on safe driving policies and human reactions. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5425-5438.	1.2	80
60	An adaptive observer for a shear building with an energy-dissipation device. Control Engineering Practice, 2010, 18, 331-338.	3.2	10
61	Reduced order dynamical model for supercapacitors. , 2010, , .		5
62	Dynamic friction compensation in velocity control of servo-actuators. , 2009, , .		3
63	Simultaneous state estimation and parameter tuning in a shear building with a magneto-rheological damper. Structural Control and Health Monitoring, 2009, 16, 483-502.	1.9	7
64	Modeling mechanical torque in wind turbines. , 2009, , .		4
65	Wind turbine power coefficient real-time identification. International Journal of Modelling, Identification and Control, 2009, 6, 181.	0.2	7
66	Modelling wind turbine mechanical power by friction effects. International Journal of Modelling, Identification and Control, 2009, 6, 205.	0.2	3
67	Estimaci3n adaptable de estados en un edificio de marco plano equipado con un amortiguador magneto-reol3gico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2008, 5, 135-143.	0.6	0
68	Field data based real-time parameter identification of 3D shear building models. , 2008, , .		0
69	Passivity-based control for variable speed constant frequency operation of a DFIG wind turbine. International Journal of Control, 2008, 81, 1399-1407.	1.2	22
70	Adaptive compensation of dynamic friction in an industrial robot. , 2008, , .		6
71	Semiactive control of a shear building using an adaptive observer. Proceedings of the American Control Conference, 2007, , .	0.0	0
72	ADAPTIVE STATE ESTIMATION IN A BUILDING WITH AN ADJUSTABLE DAMPER3. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 1046-1051.	0.4	0

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73	A nonlinear friction model for the passivity-based control of underactuated mechanical systems. , 2007, , .		2
74	A real-time estimation scheme for buildings with intelligent dissipation devices. Mechanical Systems and Signal Processing, 2007, 21, 2427-2440.	4.4	12
75	Vehicle density and velocity estimation on highways for on-ramp metering control. Nonlinear Dynamics, 2007, 49, 555-566.	2.7	10
76	3D identification of seismically excited buildings with sensors arbitrarily placed. , 2006, , .		2
77	A state observer for a building with a magneto-rheological damper and parameter uncertainty. , 2006, , .		2
78	3D IDENTIFICATION OF BUILDINGS SEISMICALLY EXCITED. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 327-332.	0.4	8
79	Cellular automata for one-lane traffic flow modeling. Transportation Research Part C: Emerging Technologies, 2005, 13, 63-74.	3.9	44
80	LuGre friction model for a magnetorheological damper. Structural Control and Health Monitoring, 2005, 12, 91-116.	1.9	98
81	Optimal emergency vehicle braking control based on dynamic friction model. Journal of Applied Research and Technology, 2005, 3, .	0.6	3
82	Civil structures semi-active control with limited measurements. , 2004, , .		6
83	Multi-destination traffic flow control in automated highway systems. Transportation Research Part C: Emerging Technologies, 2003, 11, 1-28.	3.9	12
84	Stability of macroscopic traffic flow modeling through wavefront expansion. Transportation Research Part B: Methodological, 2003, 37, 661-679.	2.8	42
85	Traffic flow control in automated highway systems. Control Engineering Practice, 1999, 7, 1071-1078.	3.2	31