

Fredy Ruiz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8271041/publications.pdf>

Version: 2024-02-01

58
papers

609
citations

567247

15
h-index

677123

22
g-index

58
all docs

58
docs citations

58
times ranked

508
citing authors

#	ARTICLE	IF	CITATIONS
1	Limiting gaming opportunities on incentive-based demand response programs. <i>Applied Energy</i> , 2018, 225, 668-681.	10.1	48
2	Optimal Strategy to Exploit the Flexibility of an Electric Vehicle Charging Station. <i>Energies</i> , 2019, 12, 3834.	3.1	39
3	Modeling and control of water booster pressure systems as flexible loads for demand response. <i>Applied Energy</i> , 2017, 204, 106-116.	10.1	38
4	Direct Filtering: A New Approach to Optimal Filter Design for Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 86-99.	5.7	36
5	An optimal control approach to steam distillation of essential oils from aromatic plants. <i>Computers and Chemical Engineering</i> , 2018, 117, 25-31.	3.8	36
6	Direct Identification of Optimal SM-LPV Filters and Application to Vehicle Yaw Rate Estimation. <i>IEEE Transactions on Control Systems Technology</i> , 2011, 19, 5-17.	5.2	33
7	A time-of-use pricing strategy for managing electric vehicle clusters. <i>Sustainable Energy, Grids and Networks</i> , 2021, 25, 100411.	3.9	32
8	Rational consumer decisions in a peak time rebate program. <i>Electric Power Systems Research</i> , 2017, 143, 533-543.	3.6	30
9	A novel incentive-based demand response model for Cournot competition in electricity markets. <i>Energy Systems</i> , 2019, 10, 95-112.	3.0	24
10	Direct data-driven filter design for uncertain LTI systems with bounded noise. <i>Automatica</i> , 2010, 46, 1773-1784.	5.0	22
11	Direct design from data of optimal filters for LPV systems. <i>Systems and Control Letters</i> , 2010, 59, 1-8.	2.3	20
12	pH Measurement IoT System for Precision Agriculture Applications. <i>IEEE Latin America Transactions</i> , 2019, 17, 823-832.	1.6	18
13	A Virtual Sensor for Electric Vehicles' State of Charge Estimation. <i>Electronics (Switzerland)</i> , 2020, 9, 278.	3.1	17
14	Experimental modeling and aggregation strategy for thermoelectric refrigeration units as flexible loads. <i>Applied Energy</i> , 2020, 272, 115065.	10.1	16
15	Experimental validation of a multiple model predictive control for waste heat recovery organic Rankine cycle systems. <i>Applied Thermal Engineering</i> , 2021, 193, 116993.	6.0	16
16	Production and characterization of a human lysosomal recombinant iduronate 2-sulfatase produced in <i>Pichia pastoris</i> . <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 655-664.	3.1	15
17	Forecast-Based V2G Aggregation Model for Day-Ahead and Real-Time Operations. , 2020, , .		14
18	Smart Charge of an Electric Vehicles Station: A Model Predictive Control Approach. , 2018, , .		13

#	ARTICLE	IF	CITATIONS
19	Coordination of specialised energy aggregators for balancing service provision. Sustainable Energy, Grids and Networks, 2022, 32, 100817.	3.9	13
20	SMGO: A set membership approach to data-driven global optimization. Automatica, 2021, 133, 109890.	5.0	12
21	Linear virtual sensors for vertical dynamics of vehicles with controlled suspensions. , 2007, , .		11
22	Optimal Operation Strategy for Electric Vehicles Charging Stations with Renewable Energy Integration. IFAC-PapersOnLine, 2020, 53, 12739-12744.	0.9	9
23	Understanding Model Predictive Control for Electric Vehicle Charging Dispatch. , 2018, , .		8
24	Characterization of electric faults in photovoltaic array systems. DYNA (Colombia), 2019, 86, 54-63.	0.4	8
25	Towards a comprehensive framework for V2G optimal operation in presence of uncertainty. Sustainable Energy, Grids and Networks, 2022, 31, 100740.	3.9	7
26	Real-time attitude estimation based on Gradient Descent algorithm. , 2012, , .		6
27	Modelo de predicci3n de demanda de energÃa elÃ©ctrica mediante tÃ©cnicas Set-Membership. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2019, 16, 467.	1.0	6
28	Electric Vehicle Fleets as Balancing Instrument in Micro-Grids. Energies, 2021, 14, 7616.	3.1	6
29	Nonlinear model predictive control for a Ball&Beam. , 2012, , .		5
30	Demand response: Understanding the rational behavior of consumers in a Peak Time Rebate Program. , 2015, , .		5
31	Gain-Scheduled Oxygen Concentration Control System for a Bioreactor. IEEE Latin America Transactions, 2018, 16, 2689-2697.	1.6	5
32	Optimal Portfolio Selection Methodology for a Demand Response Aggregator. Energies, 2021, 14, 7923.	3.1	5
33	Multivariable estimation of a web winding system. , 2011, , .		4
34	Nonlinear identification and control of Organic Rankine Cycle systems using sparse polynomial models. , 2016, , .		4
35	Energy price forecasting for optimal managing of electric vehicle fleet. IET Electrical Systems in Transportation, 2020, 10, 401-408.	2.4	4
36	Programmable current converter synthesis for the evaluation of UV radiation of excimer lamps. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
37	Set membership identification of an excimer lamp for fast simulation. Control Engineering Practice, 2013, 21, 96-104.	5.5	3
38	Low-Voltage Cascade Multilevel Inverter with GaN Devices for Energy Storage System. , 2019, , .		2
39	Coordination of Aggregators for Flexibility Provision: A Conceptual Framework. , 2021, , .		2
40	A Youlaâ€Kucera formulation of the controller design from data problem. Journal of Process Control, 2022, 109, 93-103.	3.3	2
41	A methodology for LPV control of web winding systems. , 2011, , .		1
42	A set membership approach to oxygen transport modeling with unmodeled dynamics. , 2015, , .		1
43	Non linear control of a robotic arm for pipeline reparation. IEEE Latin America Transactions, 2016, 14, 4681-4687.	1.6	1
44	Self-balancing control strategy for a battery based H-bridge multilevel inverter. , 2017, , .		1
45	Design of an optimal control to reduce CO<inf>2</inf> emissions in an engine. , 2017, , .		1
46	Analysis of water booster pressure systems as dispatchable loads in smart-grids. , 2017, , .		1
47	Price Based Optimization for Electrical Vehicle Charging Scheduling. , 2019, , .		1
48	Characterization and Flexibility of a ThermoElectric Refrigeration Unit. , 2019, , .		1
49	A current controller for a grid-tied, cascade multilevel inverter. , 2019, , .		1
50	Limited-complexity controller tuning: A set membership data-driven approach. European Journal of Control, 2021, 58, 82-89.	2.6	1
51	Classification of Electric Faults in Photovoltaic Systems Based on Voltage-Power Curves. IEEE Latin America Transactions, 2021, 19, 2071-2078.	1.6	1
52	Stackelberg Population Dynamics: A Predictive-Sensitivity Approach. Games, 2021, 12, 88.	0.6	1
53	Fast estimation of acoustic parameters in presence of audience. , 2010, , .		0
54	Uncertainty model analysis for MISO systems Set-Membership identification. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
55	Vehicle stability control using direct virtual sensors. <i>Vehicle System Dynamics</i> , 2012, 50, 597-618.	3.7	0
56	MPC Weighted sum approach applied to torque tracking and CO ₂ emission reduction on engines. , 2017, , .		0
57	A contract for demand response based on probability of call. , 2018, , .		0
58	A Youla-Kucera Parametrization for Data-Driven Controllers Tuning. <i>IFAC-PapersOnLine</i> , 2020, 53, 3989-3994.	0.9	0